sg13g2_stdcell_fast_1p65V_m40C Library

Cell Groups
A21OIx
A21Ox
A221OI
A22OI
AND2x
AND3x
AND4x
ANTENNANP
BUFx
DECAPx
DFRBPQx
DFRBPx
DLHQ
DLHRQ
DLHR
DLLRQ
DLLR
DLYGATE4SD1
DLYGATE4SD2
DLYGATE4SD3
EBUFNx
EINVNx
FILLx

INVx
LGCP
MUX2x
MUX4
NAND2Bx
NAND2x
NAND3B
NAND3
NAND4
NOR2Bx
NOR2x
NOR3x
NOR4x
O21AI
OR2x
OR3x
OR4x
SDFBBP
SDFRBPQx
SDFRBPx
SIGHOLD
SLGCP
TIEHI
TIELO
XNOR2
XOR2

A21OIx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
A1	A2	B1	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
sg13g2_a21oi_1	9.07200
sg13g2_a21oi_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_a21oi_1	0.00335	0.00346	0.00317	0.30000
sg13g2_a21oi_2	0.00649	0.00690	0.00622	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_1	412.01100	1213.56000	1999.06000
sg13g2_a21oi_2	823.98200	2427.10000	3998.11000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.02332**	0.32940	0.06480	**0.26544**	2.50740	0.30000	**1.33531**
	A2->Y (FR)	0.01860	0.00100	**0.02773**	0.32940	0.06480	**0.27072**	2.50740	0.30000	**1.34736**
	B1->Y (FR)	0.01860	0.00100	**0.02342**	0.32940	0.06480	**0.30631**	2.50740	0.30000	**1.60716**
sg13g2_a21oi_2	A1->Y (FR)	0.01860	0.00100	**0.02133**	0.32940	0.12960	**0.26607**	2.50740	0.60000	**1.33611**
	A2->Y (FR)	0.01860	0.00100	**0.02591**	0.32940	0.12960	**0.27031**	2.50740	0.60000	**1.34654**
	B1->Y (FR)	0.01860	0.00100	**0.02162**	0.32940	0.12960	**0.30575**	2.50740	0.60000	**1.60522**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.02215**	0.32940	0.06480	**0.26740**	2.50740	0.30000	**1.38992**
	A2->Y (RF)	0.01860	0.00100	**0.02326**	0.32940	0.06480	**0.23619**	2.50740	0.30000	**1.19318**
	B1->Y (RF)	0.01860	0.00100	**0.01200**	0.32940	0.06480	**0.19263**	2.50740	0.30000	**1.03346**
sg13g2_a21oi_2	A1->Y (RF)	0.01860	0.00100	**0.02035**	0.32940	0.12960	**0.26744**	2.50740	0.60000	**1.39023**
	A2->Y (RF)	0.01860	0.00100	**0.02175**	0.32940	0.12960	**0.23648**	2.50740	0.60000	**1.19490**
	B1->Y (RF)	0.01860	0.00100	**0.01072**	0.32940	0.12960	**0.19206**	2.50740	0.60000	**1.03137**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02342**	0.32940	0.06480	**0.30631**	2.50740	0.30000	**1.60716**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01823**	0.32940	0.06480	**0.29964**	2.50740	0.30000	**1.59500**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.01545**	0.32940	0.06480	**0.25387**	2.50740	0.30000	**1.36497**
sg13g2_a21oi_2	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02162**	0.32940	0.12960	**0.30575**	2.50740	0.60000	**1.60522**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01626**	0.32940	0.12960	**0.30129**	2.50740	0.60000	**1.60517**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.01377**	0.32940	0.12960	**0.25446**	2.50740	0.60000	**1.36670**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01261**	0.32940	0.06480	**0.19406**	2.50740	0.30000	**1.02898**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01223**	0.32940	0.06480	**0.19239**	2.50740	0.30000	**1.02688**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01200**	0.32940	0.06480	**0.19263**	2.50740	0.30000	**1.03346**
sg13g2_a21oi_2	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01133**	0.32940	0.12960	**0.19337**	2.50740	0.60000	**1.02653**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01097**	0.32940	0.12960	**0.19164**	2.50740	0.60000	**1.02429**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01072**	0.32940	0.12960	**0.19206**	2.50740	0.60000	**1.03137**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00846**	0.32940	0.06480	**0.01145**	2.50740	0.30000	**0.04906**
	A2	0.01860	0.00100	**0.00896**	0.32940	0.06480	**0.01174**	2.50740	0.30000	**0.05144**
	B1	0.01860	0.00100	**0.00457**	0.32940	0.06480	**0.00912**	2.50740	0.30000	**0.05207**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.01688**	0.32940	0.12960	**0.02312**	2.50740	0.60000	**0.09768**
	A2	0.01860	0.00100	**0.01805**	0.32940	0.12960	**0.02367**	2.50740	0.60000	**0.10302**
	B1	0.01860	0.00100	**0.00943**	0.32940	0.12960	**0.01842**	2.50740	0.60000	**0.10510**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00552**	0.32940	0.06480	**0.00877**	2.50740	0.30000	**0.04358**
	A2	0.01860	0.00100	**0.00893**	0.32940	0.06480	**0.01180**	2.50740	0.30000	**0.04838**
	B1	0.01860	0.00100	**0.00319**	0.32940	0.06480	**0.00794**	2.50740	0.30000	**0.05014**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.00986**	0.32940	0.12960	**0.01636**	2.50740	0.60000	**0.08533**
	A2	0.01860	0.00100	**0.01698**	0.32940	0.12960	**0.02275**	2.50740	0.60000	**0.09608**
	B1	0.01860	0.00100	**0.00528**	0.32940	0.12960	**0.01512**	2.50740	0.60000	**0.09958**

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00457**	0.32940	0.06480	**0.00912**	2.50740	0.30000	**0.05207**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00405**	0.32940	0.06480	**0.00875**	2.50740	0.30000	**0.05191**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00412**	0.32940	0.06480	**0.00935**	2.50740	0.30000	**0.05692**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00943**	0.32940	0.12960	**0.01842**	2.50740	0.60000	**0.10510**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00808**	0.32940	0.12960	**0.01744**	2.50740	0.60000	**0.10402**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00825**	0.32940	0.12960	**0.01875**	2.50740	0.60000	**0.11261**

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00685**	0.32940	0.06480	**0.01108**	2.50740	0.30000	**0.04905**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00340**	0.32940	0.06480	**0.00776**	2.50740	0.30000	**0.04602**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00319**	0.32940	0.06480	**0.00794**	2.50740	0.30000	**0.05014**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.01256**	0.32940	0.12960	**0.02132**	2.50740	0.60000	**0.09744**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00567**	0.32940	0.12960	**0.01461**	2.50740	0.60000	**0.09146**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00528**	0.32940	0.12960	**0.01512**	2.50740	0.60000	**0.09958**

A21Ox

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
A1	A2	B1	X
0	x	0	0
x	x	1	1
1	0	0	0
1	1	x	1

Footprint

Cell Name	Area
sg13g2_a21o_1	12.70080
sg13g2_a21o_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_1	0.00309	0.00321	0.00301	0.30000
sg13g2_a21o_2	0.00328	0.00332	0.00314	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	1094.54000	1428.39000	1866.58000
sg13g2_a21o_2	1463.09000	1989.32000	2488.16000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.04195**	0.32940	0.06480	**0.18921**	2.50740	0.30000	**0.68076**
	A2->X (RR)	0.01860	0.00100	**0.04270**	0.32940	0.06480	**0.17805**	2.50740	0.30000	**0.62100**
	B1->X (RR)	0.01860	0.00100	**0.02648**	0.32940	0.06480	**0.15082**	2.50740	0.30000	**0.53546**
sg13g2_a21o_2	A1->X (RR)	0.01860	0.00100	**0.04521**	0.32940	0.12960	**0.19929**	2.50740	0.60000	**0.66968**
	A2->X (RR)	0.01860	0.00100	**0.04584**	0.32940	0.12960	**0.18643**	2.50740	0.60000	**0.60595**
	B1->X (RR)	0.01860	0.00100	**0.02908**	0.32940	0.12960	**0.16073**	2.50740	0.60000	**0.52868**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.04336**	0.32940	0.06480	**0.15939**	2.50740	0.30000	**0.52235**
	A2->X (FF)	0.01860	0.00100	**0.04797**	0.32940	0.06480	**0.16946**	2.50740	0.30000	**0.57168**
	B1->X (FF)	0.01860	0.00100	**0.04379**	0.32940	0.06480	**0.18174**	2.50740	0.30000	**0.64904**
sg13g2_a21o_2	A1->X (FF)	0.01860	0.00100	**0.05461**	0.32940	0.12960	**0.18683**	2.50740	0.60000	**0.59996**
	A2->X (FF)	0.01860	0.00100	**0.05960**	0.32940	0.12960	**0.19692**	2.50740	0.60000	**0.64785**
	B1->X (FF)	0.01860	0.00100	**0.05571**	0.32940	0.12960	**0.21390**	2.50740	0.60000	**0.73469**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	!B1	0.01860	0.00100	**0.04195**	0.32940	0.06480	**0.18921**	2.50740	0.30000	**0.68076**
	A2->X (RR)	!B1	0.01860	0.00100	**0.04270**	0.32940	0.06480	**0.17805**	2.50740	0.30000	**0.62100**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.02825**	0.32940	0.06480	**0.15659**	2.50740	0.30000	**0.52171**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.02670**	0.32940	0.06480	**0.14793**	2.50740	0.30000	**0.50006**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.02648**	0.32940	0.06480	**0.15082**	2.50740	0.30000	**0.53546**
sg13g2_a21o_2	A1->X (RR)	!B1	0.01860	0.00100	**0.04521**	0.32940	0.12960	**0.19929**	2.50740	0.60000	**0.66968**
	A2->X (RR)	!B1	0.01860	0.00100	**0.04584**	0.32940	0.12960	**0.18643**	2.50740	0.60000	**0.60595**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.03053**	0.32940	0.12960	**0.16611**	2.50740	0.60000	**0.51451**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.02927**	0.32940	0.12960	**0.15881**	2.50740	0.60000	**0.49473**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.02908**	0.32940	0.12960	**0.16073**	2.50740	0.60000	**0.52868**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	!B1	0.01860	0.00100	**0.04336**	0.32940	0.06480	**0.15939**	2.50740	0.30000	**0.52235**
	A2->X (FF)	!B1	0.01860	0.00100	**0.04797**	0.32940	0.06480	**0.16946**	2.50740	0.30000	**0.57168**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.04379**	0.32940	0.06480	**0.18174**	2.50740	0.30000	**0.64904**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.03854**	0.32940	0.06480	**0.17102**	2.50740	0.30000	**0.62905**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.03292**	0.32940	0.06480	**0.15707**	2.50740	0.30000	**0.57533**
sg13g2_a21o_2	A1->X (FF)	!B1	0.01860	0.00100	**0.05461**	0.32940	0.12960	**0.18683**	2.50740	0.60000	**0.59996**
	A2->X (FF)	!B1	0.01860	0.00100	**0.05960**	0.32940	0.12960	**0.19692**	2.50740	0.60000	**0.64785**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.05571**	0.32940	0.12960	**0.21390**	2.50740	0.60000	**0.73469**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.04977**	0.32940	0.12960	**0.20314**	2.50740	0.60000	**0.71623**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.04126**	0.32940	0.12960	**0.18516**	2.50740	0.60000	**0.65729**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01415**	0.32940	0.06480	**0.02223**	2.50740	0.30000	**0.09954**
	A2	0.01860	0.00100	**0.01716**	0.32940	0.06480	**0.02430**	2.50740	0.30000	**0.10395**
	B1	0.01860	0.00100	**0.01180**	0.32940	0.06480	**0.02218**	2.50740	0.30000	**0.11087**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.02377**	0.32940	0.12960	**0.03148**	2.50740	0.60000	**0.11452**
	A2	0.01860	0.00100	**0.02705**	0.32940	0.12960	**0.03352**	2.50740	0.60000	**0.11811**
	B1	0.01860	0.00100	**0.02025**	0.32940	0.12960	**0.03079**	2.50740	0.60000	**0.12488**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01651**	0.32940	0.06480	**0.02357**	2.50740	0.30000	**0.09932**
	A2	0.01860	0.00100	**0.01669**	0.32940	0.06480	**0.02385**	2.50740	0.30000	**0.10172**
	B1	0.01860	0.00100	**0.01246**	0.32940	0.06480	**0.02236**	2.50740	0.30000	**0.10032**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.02717**	0.32940	0.12960	**0.03234**	2.50740	0.60000	**0.11273**
	A2	0.01860	0.00100	**0.02782**	0.32940	0.12960	**0.03271**	2.50740	0.60000	**0.11635**
	B1	0.01860	0.00100	**0.02311**	0.32940	0.12960	**0.03118**	2.50740	0.60000	**0.11524**

Internal switching power(pJ) to X rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.01415**	0.32940	0.06480	**0.02223**	2.50740	0.30000	**0.09954**
	A2	!B1	0.01860	0.00100	**0.01716**	0.32940	0.06480	**0.02430**	2.50740	0.30000	**0.10395**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01502**	0.32940	0.06480	**0.02437**	2.50740	0.30000	**0.10650**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01200**	0.32940	0.06480	**0.02123**	2.50740	0.30000	**0.10326**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01180**	0.32940	0.06480	**0.02218**	2.50740	0.30000	**0.11087**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.02377**	0.32940	0.12960	**0.03148**	2.50740	0.60000	**0.11452**
	A2	!B1	0.01860	0.00100	**0.02705**	0.32940	0.12960	**0.03352**	2.50740	0.60000	**0.11811**
	B1	(A1 * !A2)	0.01860	0.00100	**0.02410**	0.32940	0.12960	**0.03386**	2.50740	0.60000	**0.12096**
	B1	(!A1 * A2)	0.01860	0.00100	**0.02045**	0.32940	0.12960	**0.03013**	2.50740	0.60000	**0.11668**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.02025**	0.32940	0.12960	**0.03079**	2.50740	0.60000	**0.12488**

Internal switching power(pJ) to X falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.01651**	0.32940	0.06480	**0.02357**	2.50740	0.30000	**0.09932**
	A2	!B1	0.01860	0.00100	**0.01669**	0.32940	0.06480	**0.02385**	2.50740	0.30000	**0.10172**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01289**	0.32940	0.06480	**0.02214**	2.50740	0.30000	**0.09936**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01246**	0.32940	0.06480	**0.02236**	2.50740	0.30000	**0.10032**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01229**	0.32940	0.06480	**0.02320**	2.50740	0.30000	**0.10747**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.02717**	0.32940	0.12960	**0.03234**	2.50740	0.60000	**0.11273**
	A2	!B1	0.01860	0.00100	**0.02782**	0.32940	0.12960	**0.03271**	2.50740	0.60000	**0.11635**
	B1	(A1 * !A2)	0.01860	0.00100	**0.02404**	0.32940	0.12960	**0.03098**	2.50740	0.60000	**0.11402**
	B1	(!A1 * A2)	0.01860	0.00100	**0.02311**	0.32940	0.12960	**0.03118**	2.50740	0.60000	**0.11524**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.02162**	0.32940	0.12960	**0.03196**	2.50740	0.60000	**0.12419**

A221OI

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT					OUTPUT
A1	A2	B1	B2	C1	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
sg13g2_a221oi_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A1	A2	B1	B2	C1	Y
sg13g2_a221oi_1	0.00331	0.00342	0.00324	0.00341	0.00314	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	615.39500	2079.72000	3301.49000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (FR)	0.01860	0.00100	**0.05076**	0.32940	0.06480	**0.35529**	2.50740	0.30000	**1.61108**
	A2->Y (FR)	0.01860	0.00100	**0.05683**	0.32940	0.06480	**0.36083**	2.50740	0.30000	**1.61792**
	B1->Y (FR)	0.01860	0.00100	**0.04559**	0.32940	0.06480	**0.37906**	2.50740	0.30000	**1.83355**
	B2->Y (FR)	0.01860	0.00100	**0.05167**	0.32940	0.06480	**0.38473**	2.50740	0.30000	**1.84021**
	C1->Y (FR)	0.01860	0.00100	**0.02454**	0.32940	0.06480	**0.34987**	2.50740	0.30000	**1.83010**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (RF)	0.01860	0.00100	**0.02898**	0.32940	0.06480	**0.27986**	2.50740	0.30000	**1.40400**
	A2->Y (RF)	0.01860	0.00100	**0.02966**	0.32940	0.06480	**0.24779**	2.50740	0.30000	**1.20619**
	B1->Y (RF)	0.01860	0.00100	**0.02499**	0.32940	0.06480	**0.27034**	2.50740	0.30000	**1.38892**
	B2->Y (RF)	0.01860	0.00100	**0.02598**	0.32940	0.06480	**0.23933**	2.50740	0.30000	**1.19196**
	C1->Y (RF)	0.01860	0.00100	**0.01392**	0.32940	0.06480	**0.19391**	2.50740	0.30000	**1.02903**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last

sg13g2_a221oi_1	**A1->Y (FR)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.05076**	0.32940	0.06480	**0.35529**	2.50740	0.30000	**1.61108**
	A1->Y (FR)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.04349**	0.32940	0.06480	**0.34882**	2.50740	0.30000	**1.60740**
	A1->Y (FR)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.04009**	0.32940	0.06480	**0.31340**	2.50740	0.30000	**1.46807**
	A2->Y (FR)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.05683**	0.32940	0.06480	**0.36083**	2.50740	0.30000	**1.61792**
	A2->Y (FR)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.04980**	0.32940	0.06480	**0.35457**	2.50740	0.30000	**1.61545**
	A2->Y (FR)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.04527**	0.32940	0.06480	**0.31795**	2.50740	0.30000	**1.47488**
	B1->Y (FR)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.04559**	0.32940	0.06480	**0.37906**	2.50740	0.30000	**1.83355**
	B1->Y (FR)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.03824**	0.32940	0.06480	**0.37200**	2.50740	0.30000	**1.83014**
	B1->Y (FR)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.03266**	0.32940	0.06480	**0.32198**	2.50740	0.30000	**1.59199**
	B2->Y (FR)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.05167**	0.32940	0.06480	**0.38473**	2.50740	0.30000	**1.84021**
	B2->Y (FR)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.04455**	0.32940	0.06480	**0.37791**	2.50740	0.30000	**1.83807**
	B2->Y (FR)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.03779**	0.32940	0.06480	**0.32655**	2.50740	0.30000	**1.59969**
	C1->Y (FR)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.02912**	0.32940	0.06480	**0.35391**	2.50740	0.30000	**1.82997**
	C1->Y (FR)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.02321**	0.32940	0.06480	**0.34793**	2.50740	0.30000	**1.82591**
	C1->Y (FR)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.03045**	0.32940	0.06480	**0.35448**	2.50740	0.30000	**1.82881**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.02454**	0.32940	0.06480	**0.34987**	2.50740	0.30000	**1.83010**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.02104**	0.32940	0.06480	**0.30335**	2.50740	0.30000	**1.60462**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last

sg13g2_a221oi_1	**A1->Y (RF)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.02875**	0.32940	0.06480	**0.28004**	2.50740	0.30000	**1.40004**
	A1->Y (RF)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.02773**	0.32940	0.06480	**0.27736**	2.50740	0.30000	**1.39769**
	A1->Y (RF)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.02898**	0.32940	0.06480	**0.27986**	2.50740	0.30000	**1.40400**
	A2->Y (RF)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.02942**	0.32940	0.06480	**0.24808**	2.50740	0.30000	**1.20261**
	A2->Y (RF)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.02842**	0.32940	0.06480	**0.24567**	2.50740	0.30000	**1.20077**
	A2->Y (RF)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.02966**	0.32940	0.06480	**0.24779**	2.50740	0.30000	**1.20619**
	B1->Y (RF)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.02603**	0.32940	0.06480	**0.27297**	2.50740	0.30000	**1.38609**
	B1->Y (RF)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.02529**	0.32940	0.06480	**0.27032**	2.50740	0.30000	**1.38391**
	B1->Y (RF)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.02499**	0.32940	0.06480	**0.27034**	2.50740	0.30000	**1.38892**
	B2->Y (RF)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.02694**	0.32940	0.06480	**0.24170**	2.50740	0.30000	**1.18958**
	B2->Y (RF)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.02623**	0.32940	0.06480	**0.23927**	2.50740	0.30000	**1.18659**
	B2->Y (RF)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.02598**	0.32940	0.06480	**0.23933**	2.50740	0.30000	**1.19196**
	C1->Y (RF)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.01440**	0.32940	0.06480	**0.19549**	2.50740	0.30000	**1.02523**
	C1->Y (RF)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.01405**	0.32940	0.06480	**0.19385**	2.50740	0.30000	**1.02288**
	C1->Y (RF)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.01445**	0.32940	0.06480	**0.19548**	2.50740	0.30000	**1.02549**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.01411**	0.32940	0.06480	**0.19383**	2.50740	0.30000	**1.02215**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.01392**	0.32940	0.06480	**0.19391**	2.50740	0.30000	**1.02903**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.01577**	0.32940	0.06480	**0.01727**	2.50740	0.30000	**0.05139**
	A2	0.01860	0.00100	**0.01604**	0.32940	0.06480	**0.01759**	2.50740	0.30000	**0.05322**
	B1	0.01860	0.00100	**0.01190**	0.32940	0.06480	**0.01401**	2.50740	0.30000	**0.04398**
	B2	0.01860	0.00100	**0.01210**	0.32940	0.06480	**0.01417**	2.50740	0.30000	**0.04493**
	C1	0.01860	0.00100	**0.00733**	0.32940	0.06480	**0.01143**	2.50740	0.30000	**0.05037**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.00905**	0.32940	0.06480	**0.01129**	2.50740	0.30000	**0.04219**
	A2	0.01860	0.00100	**0.01241**	0.32940	0.06480	**0.01450**	2.50740	0.30000	**0.04694**
	B1	0.01860	0.00100	**0.00579**	0.32940	0.06480	**0.00852**	2.50740	0.30000	**0.03989**
	B2	0.01860	0.00100	**0.00925**	0.32940	0.06480	**0.01178**	2.50740	0.30000	**0.04429**
	C1	0.01860	0.00100	**0.00349**	0.32940	0.06480	**0.00768**	2.50740	0.30000	**0.04600**

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01577**	0.32940	0.06480	**0.01727**	2.50740	0.30000	**0.05139**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.01522**	0.32940	0.06480	**0.01691**	2.50740	0.30000	**0.05094**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.01918**	0.32940	0.06480	**0.02079**	2.50740	0.30000	**0.05560**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01604**	0.32940	0.06480	**0.01759**	2.50740	0.30000	**0.05322**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.01559**	0.32940	0.06480	**0.01722**	2.50740	0.30000	**0.05300**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.01952**	0.32940	0.06480	**0.02100**	2.50740	0.30000	**0.05747**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.01190**	0.32940	0.06480	**0.01401**	2.50740	0.30000	**0.04398**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.01137**	0.32940	0.06480	**0.01363**	2.50740	0.30000	**0.04357**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.01134**	0.32940	0.06480	**0.01384**	2.50740	0.30000	**0.04705**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.01210**	0.32940	0.06480	**0.01417**	2.50740	0.30000	**0.04493**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.01163**	0.32940	0.06480	**0.01364**	2.50740	0.30000	**0.04512**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.01164**	0.32940	0.06480	**0.01395**	2.50740	0.30000	**0.04877**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00733**	0.32940	0.06480	**0.01143**	2.50740	0.30000	**0.05037**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00680**	0.32940	0.06480	**0.01106**	2.50740	0.30000	**0.05007**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00728**	0.32940	0.06480	**0.01137**	2.50740	0.30000	**0.05049**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00678**	0.32940	0.06480	**0.01108**	2.50740	0.30000	**0.04994**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00680**	0.32940	0.06480	**0.01141**	2.50740	0.30000	**0.05439**

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01250**	0.32940	0.06480	**0.01474**	2.50740	0.30000	**0.04554**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00905**	0.32940	0.06480	**0.01129**	2.50740	0.30000	**0.04219**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00732**	0.32940	0.06480	**0.00969**	2.50740	0.30000	**0.04209**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01586**	0.32940	0.06480	**0.01792**	2.50740	0.30000	**0.04991**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.01241**	0.32940	0.06480	**0.01450**	2.50740	0.30000	**0.04694**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.01071**	0.32940	0.06480	**0.01282**	2.50740	0.30000	**0.04676**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00942**	0.32940	0.06480	**0.01198**	2.50740	0.30000	**0.04086**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.00599**	0.32940	0.06480	**0.00852**	2.50740	0.30000	**0.03760**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00579**	0.32940	0.06480	**0.00852**	2.50740	0.30000	**0.03989**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.01287**	0.32940	0.06480	**0.01521**	2.50740	0.30000	**0.04505**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.00943**	0.32940	0.06480	**0.01183**	2.50740	0.30000	**0.04146**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00925**	0.32940	0.06480	**0.01178**	2.50740	0.30000	**0.04429**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00705**	0.32940	0.06480	**0.01094**	2.50740	0.30000	**0.04547**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00361**	0.32940	0.06480	**0.00759**	2.50740	0.30000	**0.04188**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00710**	0.32940	0.06480	**0.01093**	2.50740	0.30000	**0.04561**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00366**	0.32940	0.06480	**0.00757**	2.50740	0.30000	**0.04214**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00349**	0.32940	0.06480	**0.00768**	2.50740	0.30000	**0.04600**

A22OI

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT				OUTPUT
A1	A2	B1	B2	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
sg13g2_a22oi_1	10.84860

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A1	A2	B1	B2	Y
sg13g2_a22oi_1	0.00344	0.00350	0.00337	0.00327	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	406.83400	1461.92000	2677.83000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	0.01860	0.00100	**0.02657**	0.32940	0.06480	**0.26843**	2.50740	0.30000	**1.33527**
	A2->Y (FR)	0.01860	0.00100	**0.03054**	0.32940	0.06480	**0.27226**	2.50740	0.30000	**1.34229**
	B1->Y (FR)	0.01860	0.00100	**0.02961**	0.32940	0.06480	**0.31121**	2.50740	0.30000	**1.59846**
	B2->Y (FR)	0.01860	0.00100	**0.02065**	0.32940	0.06480	**0.30077**	2.50740	0.30000	**1.58104**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	0.01860	0.00100	**0.02481**	0.32940	0.06480	**0.27071**	2.50740	0.30000	**1.39289**
	A2->Y (RF)	0.01860	0.00100	**0.02573**	0.32940	0.06480	**0.23921**	2.50740	0.30000	**1.19561**
	B1->Y (RF)	0.01860	0.00100	**0.02071**	0.32940	0.06480	**0.23408**	2.50740	0.30000	**1.18279**
	B2->Y (RF)	0.01860	0.00100	**0.01949**	0.32940	0.06480	**0.26493**	2.50740	0.30000	**1.38041**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	(A2 * B1)	0.01860	0.00100	**0.02657**	0.32940	0.06480	**0.26843**	2.50740	0.30000	**1.33527**
	A2->Y (FR)	(A1 * B1)	0.01860	0.00100	**0.03054**	0.32940	0.06480	**0.27226**	2.50740	0.30000	**1.34229**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02961**	0.32940	0.06480	**0.31121**	2.50740	0.30000	**1.59846**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02479**	0.32940	0.06480	**0.30447**	2.50740	0.30000	**1.58575**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02542**	0.32940	0.06480	**0.30490**	2.50740	0.30000	**1.58061**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02065**	0.32940	0.06480	**0.30077**	2.50740	0.30000	**1.58104**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	(A2 * B1)	0.01860	0.00100	**0.02481**	0.32940	0.06480	**0.27071**	2.50740	0.30000	**1.39289**
	A2->Y (RF)	(A1 * B1)	0.01860	0.00100	**0.02573**	0.32940	0.06480	**0.23921**	2.50740	0.30000	**1.19561**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02071**	0.32940	0.06480	**0.23408**	2.50740	0.30000	**1.18279**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02019**	0.32940	0.06480	**0.23176**	2.50740	0.30000	**1.18268**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01949**	0.32940	0.06480	**0.26493**	2.50740	0.30000	**1.38041**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01890**	0.32940	0.06480	**0.26238**	2.50740	0.30000	**1.37795**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00890**	0.32940	0.06480	**0.01172**	2.50740	0.30000	**0.04909**
	A2	0.01860	0.00100	**0.00924**	0.32940	0.06480	**0.01184**	2.50740	0.30000	**0.05134**
	B1	0.01860	0.00100	**0.00537**	0.32940	0.06480	**0.00903**	2.50740	0.30000	**0.04786**
	B2	0.01860	0.00100	**0.00510**	0.32940	0.06480	**0.00881**	2.50740	0.30000	**0.04573**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00846**	0.32940	0.06480	**0.01153**	2.50740	0.30000	**0.04630**
	A2	0.01860	0.00100	**0.01180**	0.32940	0.06480	**0.01460**	2.50740	0.30000	**0.05047**
	B1	0.01860	0.00100	**0.01163**	0.32940	0.06480	**0.01488**	2.50740	0.30000	**0.04794**
	B2	0.01860	0.00100	**0.00833**	0.32940	0.06480	**0.01181**	2.50740	0.30000	**0.04420**

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00890**	0.32940	0.06480	**0.01172**	2.50740	0.30000	**0.04909**
	A2	(A1 * B1)	0.01860	0.00100	**0.00924**	0.32940	0.06480	**0.01184**	2.50740	0.30000	**0.05134**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00537**	0.32940	0.06480	**0.00903**	2.50740	0.30000	**0.04786**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00503**	0.32940	0.06480	**0.00889**	2.50740	0.30000	**0.04764**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00510**	0.32940	0.06480	**0.00881**	2.50740	0.30000	**0.04573**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00466**	0.32940	0.06480	**0.00854**	2.50740	0.30000	**0.04548**

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00846**	0.32940	0.06480	**0.01153**	2.50740	0.30000	**0.04630**
	A2	(A1 * B1)	0.01860	0.00100	**0.01180**	0.32940	0.06480	**0.01460**	2.50740	0.30000	**0.05047**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01163**	0.32940	0.06480	**0.01488**	2.50740	0.30000	**0.04794**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00820**	0.32940	0.06480	**0.01154**	2.50740	0.30000	**0.04541**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00833**	0.32940	0.06480	**0.01181**	2.50740	0.30000	**0.04420**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00491**	0.32940	0.06480	**0.00842**	2.50740	0.30000	**0.04079**

AND2x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A	B	X
0	x	0
1	0	0
1	1	1

Footprint

Cell Name	Area
sg13g2_and2_1	9.07200
sg13g2_and2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_1	0.00287	0.00289	0.30000
sg13g2_and2_2	0.00284	0.00289	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	881.88800	1184.62000	1427.23000
sg13g2_and2_2	1611.43000	1783.96000	2156.85000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.03415**	0.32940	0.06480	**0.17139**	2.50740	0.30000	**0.63690**
	B->X (RR)	0.01860	0.00100	**0.03531**	0.32940	0.06480	**0.16302**	2.50740	0.30000	**0.58244**
sg13g2_and2_2	A->X (RR)	0.01860	0.00100	**0.04252**	0.32940	0.12960	**0.19613**	2.50740	0.60000	**0.68357**
	B->X (RR)	0.01860	0.00100	**0.04344**	0.32940	0.12960	**0.18468**	2.50740	0.60000	**0.62365**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.02916**	0.32940	0.06480	**0.14583**	2.50740	0.30000	**0.50363**
	B->X (FF)	0.01860	0.00100	**0.03194**	0.32940	0.06480	**0.15644**	2.50740	0.30000	**0.55392**
sg13g2_and2_2	A->X (FF)	0.01860	0.00100	**0.03568**	0.32940	0.12960	**0.16971**	2.50740	0.60000	**0.55091**
	B->X (FF)	0.01860	0.00100	**0.03821**	0.32940	0.12960	**0.17873**	2.50740	0.60000	**0.59701**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.01267**	0.32940	0.06480	**0.02166**	2.50740	0.30000	**0.10065**
	B	0.01860	0.00100	**0.01557**	0.32940	0.06480	**0.02352**	2.50740	0.30000	**0.10366**
sg13g2_and2_2	A	0.01860	0.00100	**0.02223**	0.32940	0.12960	**0.02998**	2.50740	0.60000	**0.10769**
	B	0.01860	0.00100	**0.02510**	0.32940	0.12960	**0.03148**	2.50740	0.60000	**0.11062**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.01096**	0.32940	0.06480	**0.02051**	2.50740	0.30000	**0.09596**
	B	0.01860	0.00100	**0.01119**	0.32940	0.06480	**0.02093**	2.50740	0.30000	**0.09830**
sg13g2_and2_2	A	0.01860	0.00100	**0.01951**	0.32940	0.12960	**0.02846**	2.50740	0.60000	**0.10241**
	B	0.01860	0.00100	**0.01979**	0.32940	0.12960	**0.02891**	2.50740	0.60000	**0.10597**

AND3x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
A	B	C	X
0	x	x	0
1	0	x	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
sg13g2_and3_1	12.70080
sg13g2_and3_2	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_1	0.00286	0.00286	0.00288	0.30000
sg13g2_and3_2	0.00286	0.00285	0.00287	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	885.85700	1378.37000	2021.55000
sg13g2_and3_2	1615.45000	2042.83000	2698.26000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.04438**	0.32940	0.06480	**0.19600**	2.50740	0.30000	**0.72446**
	B->X (RR)	0.01860	0.00100	**0.04830**	0.32940	0.06480	**0.19096**	2.50740	0.30000	**0.68771**
	C->X (RR)	0.01860	0.00100	**0.04963**	0.32940	0.06480	**0.17932**	2.50740	0.30000	**0.62552**
sg13g2_and3_2	A->X (RR)	0.01860	0.00100	**0.05623**	0.32940	0.12960	**0.22583**	2.50740	0.60000	**0.78016**
	B->X (RR)	0.01860	0.00100	**0.06002**	0.32940	0.12960	**0.21822**	2.50740	0.60000	**0.73782**
	C->X (RR)	0.01860	0.00100	**0.06135**	0.32940	0.12960	**0.20389**	2.50740	0.60000	**0.66838**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.03094**	0.32940	0.06480	**0.14749**	2.50740	0.30000	**0.46892**
	B->X (FF)	0.01860	0.00100	**0.03380**	0.32940	0.06480	**0.15751**	2.50740	0.30000	**0.51227**
	C->X (FF)	0.01860	0.00100	**0.03559**	0.32940	0.06480	**0.16586**	2.50740	0.30000	**0.56287**
sg13g2_and3_2	A->X (FF)	0.01860	0.00100	**0.03723**	0.32940	0.12960	**0.17137**	2.50740	0.60000	**0.51834**
	B->X (FF)	0.01860	0.00100	**0.03989**	0.32940	0.12960	**0.17967**	2.50740	0.60000	**0.55848**
	C->X (FF)	0.01860	0.00100	**0.04177**	0.32940	0.12960	**0.18733**	2.50740	0.60000	**0.60560**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.01465**	0.32940	0.06480	**0.02222**	2.50740	0.30000	**0.09403**
	B	0.01860	0.00100	**0.01758**	0.32940	0.06480	**0.02393**	2.50740	0.30000	**0.09661**
	C	0.01860	0.00100	**0.02033**	0.32940	0.06480	**0.02614**	2.50740	0.30000	**0.10454**
sg13g2_and3_2	A	0.01860	0.00100	**0.02612**	0.32940	0.12960	**0.03072**	2.50740	0.60000	**0.10219**
	B	0.01860	0.00100	**0.02903**	0.32940	0.12960	**0.03249**	2.50740	0.60000	**0.10392**
	C	0.01860	0.00100	**0.03177**	0.32940	0.12960	**0.03458**	2.50740	0.60000	**0.11108**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.01130**	0.32940	0.06480	**0.01959**	2.50740	0.30000	**0.08785**
	B	0.01860	0.00100	**0.01166**	0.32940	0.06480	**0.02017**	2.50740	0.30000	**0.08997**
	C	0.01860	0.00100	**0.01188**	0.32940	0.06480	**0.02063**	2.50740	0.30000	**0.09633**
sg13g2_and3_2	A	0.01860	0.00100	**0.01984**	0.32940	0.12960	**0.02778**	2.50740	0.60000	**0.09561**
	B	0.01860	0.00100	**0.02032**	0.32940	0.12960	**0.02788**	2.50740	0.60000	**0.09698**
	C	0.01860	0.00100	**0.02067**	0.32940	0.12960	**0.02865**	2.50740	0.60000	**0.10347**

AND4x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT				OUTPUT
A	B	C	D	X
0	x	x	x	0
1	0	x	x	0
1	1	0	x	0
1	1	1	0	0
1	1	1	1	1

Footprint

Cell Name	Area
sg13g2_and4_1	14.51520
sg13g2_and4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_1	0.00271	0.00285	0.00284	0.00286	0.30000
sg13g2_and4_2	0.00268	0.00283	0.00282	0.00284	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	890.10400	1505.63000	2625.91000
sg13g2_and4_2	1619.66000	2202.62000	3239.66000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.05451**	0.32940	0.06480	**0.21812**	2.50740	0.30000	**0.79890**
	B->X (RR)	0.01860	0.00100	**0.06101**	0.32940	0.06480	**0.21569**	2.50740	0.30000	**0.77302**
	C->X (RR)	0.01860	0.00100	**0.06486**	0.32940	0.06480	**0.20733**	2.50740	0.30000	**0.72598**
	D->X (RR)	0.01860	0.00100	**0.06644**	0.32940	0.06480	**0.19741**	2.50740	0.30000	**0.66329**
sg13g2_and4_2	A->X (RR)	0.01860	0.00100	**0.06988**	0.32940	0.12960	**0.25183**	2.50740	0.60000	**0.85646**
	B->X (RR)	0.01860	0.00100	**0.07637**	0.32940	0.12960	**0.24664**	2.50740	0.60000	**0.82567**
	C->X (RR)	0.01860	0.00100	**0.08018**	0.32940	0.12960	**0.23619**	2.50740	0.60000	**0.77269**
	D->X (RR)	0.01860	0.00100	**0.08173**	0.32940	0.12960	**0.22435**	2.50740	0.60000	**0.70544**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.03235**	0.32940	0.06480	**0.14763**	2.50740	0.30000	**0.43840**
	B->X (FF)	0.01860	0.00100	**0.03532**	0.32940	0.06480	**0.15741**	2.50740	0.30000	**0.47765**
	C->X (FF)	0.01860	0.00100	**0.03730**	0.32940	0.06480	**0.16558**	2.50740	0.30000	**0.52027**
	D->X (FF)	0.01860	0.00100	**0.03849**	0.32940	0.06480	**0.17249**	2.50740	0.30000	**0.56691**
sg13g2_and4_2	A->X (FF)	0.01860	0.00100	**0.03835**	0.32940	0.12960	**0.17150**	2.50740	0.60000	**0.49086**
	B->X (FF)	0.01860	0.00100	**0.04115**	0.32940	0.12960	**0.17988**	2.50740	0.60000	**0.52622**
	C->X (FF)	0.01860	0.00100	**0.04321**	0.32940	0.12960	**0.18692**	2.50740	0.60000	**0.56554**
	D->X (FF)	0.01860	0.00100	**0.04456**	0.32940	0.12960	**0.19315**	2.50740	0.60000	**0.60805**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.01633**	0.32940	0.06480	**0.02266**	2.50740	0.30000	**0.08830**
	B	0.01860	0.00100	**0.01956**	0.32940	0.06480	**0.02459**	2.50740	0.30000	**0.09113**
	C	0.01860	0.00100	**0.02231**	0.32940	0.06480	**0.02663**	2.50740	0.30000	**0.09761**
	D	0.01860	0.00100	**0.02508**	0.32940	0.06480	**0.02883**	2.50740	0.30000	**0.10436**
sg13g2_and4_2	A	0.01860	0.00100	**0.02952**	0.32940	0.12960	**0.03146**	2.50740	0.60000	**0.09681**
	B	0.01860	0.00100	**0.03275**	0.32940	0.12960	**0.03324**	2.50740	0.60000	**0.09873**
	C	0.01860	0.00100	**0.03538**	0.32940	0.12960	**0.03543**	2.50740	0.60000	**0.10545**
	D	0.01860	0.00100	**0.03830**	0.32940	0.12960	**0.03746**	2.50740	0.60000	**0.11239**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.01194**	0.32940	0.06480	**0.01948**	2.50740	0.30000	**0.08317**
	B	0.01860	0.00100	**0.01217**	0.32940	0.06480	**0.01966**	2.50740	0.30000	**0.08439**
	C	0.01860	0.00100	**0.01250**	0.32940	0.06480	**0.02016**	2.50740	0.30000	**0.08890**
	D	0.01860	0.00100	**0.01278**	0.32940	0.06480	**0.02062**	2.50740	0.30000	**0.09506**
sg13g2_and4_2	A	0.01860	0.00100	**0.02059**	0.32940	0.12960	**0.02744**	2.50740	0.60000	**0.09059**
	B	0.01860	0.00100	**0.02095**	0.32940	0.12960	**0.02756**	2.50740	0.60000	**0.09176**
	C	0.01860	0.00100	**0.02146**	0.32940	0.12960	**0.02819**	2.50740	0.60000	**0.09643**
	D	0.01860	0.00100	**0.02189**	0.32940	0.12960	**0.02858**	2.50740	0.60000	**0.10193**

ANTENNANP

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00103

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	8.16736	8.16743	8.16750

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**-0.00044**	0.32940	**-0.00045**	2.50740	**-0.00045**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**0.00044**	0.32940	**0.00045**	2.50740	**0.00045**

BUFx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_buf_1	7.25760
sg13g2_buf_16	45.36000
sg13g2_buf_2	9.07200
sg13g2_buf_4	14.51520
sg13g2_buf_8	23.58720

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_1	0.00258	0.30000
sg13g2_buf_16	0.01937	4.80000
sg13g2_buf_2	0.00297	0.60000
sg13g2_buf_4	0.00420	1.20000
sg13g2_buf_8	0.00973	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_1	711.83500	797.51300	883.19000
sg13g2_buf_16	7714.52000	10319.40000	12924.20000
sg13g2_buf_2	1028.70000	1336.14000	1643.58000
sg13g2_buf_4	1614.29000	2412.17000	3210.05000
sg13g2_buf_8	3857.25000	5159.68000	6462.11000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.02650**	0.32940	0.06480	**0.15483**	2.50740	0.30000	**0.57616**
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.03109**	0.32940	1.03680	**0.17545**	2.50740	4.80000	**0.61854**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.03033**	0.32940	0.12960	**0.17083**	2.50740	0.60000	**0.61227**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.03842**	0.32940	0.25920	**0.20014**	2.50740	1.20000	**0.73747**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.03066**	0.32940	0.51840	**0.17428**	2.50740	2.40000	**0.61538**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.02736**	0.32940	0.06480	**0.14289**	2.50740	0.30000	**0.51939**
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.03341**	0.32940	1.03680	**0.16826**	2.50740	4.80000	**0.57192**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.03163**	0.32940	0.12960	**0.15939**	2.50740	0.60000	**0.54456**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.03249**	0.32940	0.25920	**0.15897**	2.50740	1.20000	**0.48826**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.03284**	0.32940	0.51840	**0.16729**	2.50740	2.40000	**0.57139**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.01099**	0.32940	0.06480	**0.02065**	2.50740	0.30000	**0.10056**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.15483**	0.32940	1.03680	**0.22881**	2.50740	4.80000	**0.88356**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01965**	0.32940	0.12960	**0.03063**	2.50740	0.60000	**0.12467**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.03901**	0.32940	0.25920	**0.05263**	2.50740	1.20000	**0.18794**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.07689**	0.32940	0.51840	**0.11372**	2.50740	2.40000	**0.44204**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.01082**	0.32940	0.06480	**0.02085**	2.50740	0.30000	**0.09847**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.15426**	0.32940	1.03680	**0.22914**	2.50740	4.80000	**0.86440**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01936**	0.32940	0.12960	**0.03090**	2.50740	0.60000	**0.12134**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.03816**	0.32940	0.25920	**0.05336**	2.50740	1.20000	**0.18094**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.07604**	0.32940	0.51840	**0.11490**	2.50740	2.40000	**0.42982**

DECAPx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Footprint

Cell Name	Area
sg13g2_decap_4	7.25760
sg13g2_decap_8	12.70080

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_decap_4	5984.41000	5984.41000	5984.41000
sg13g2_decap_8	11968.80000	11968.80000	11968.80000

DFRBPQx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
CLK	D	RESET_B	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
sg13g2_dfrbpq_1	48.98880
sg13g2_dfrbpq_2	50.80320

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	D	RESET_B	Q
sg13g2_dfrbpq_1	0.00316	0.00156	0.00567	0.30000
sg13g2_dfrbpq_2	0.00317	0.00157	0.00571	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbpq_1	3660.85000	4360.10000	5104.20000
sg13g2_dfrbpq_2	4366.33000	4860.59000	5809.69000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.07505**	0.32940	0.06480	**0.21057**	2.50740	0.30000	**0.60513**
sg13g2_dfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.08096**	0.32940	0.12960	**0.21977**	2.50740	0.60000	**0.61489**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.07513**	0.32940	0.06480	**0.19662**	2.50740	0.30000	**0.52991**
	RESET_B->Q (FF)	0.01860	0.00100	**0.10544**	0.32940	0.06480	**0.25613**	2.50740	0.30000	**0.71554**
sg13g2_dfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.08125**	0.32940	0.12960	**0.20653**	2.50740	0.60000	**0.54050**
	RESET_B->Q (FF)	0.01860	0.00100	**0.11107**	0.32940	0.12960	**0.26547**	2.50740	0.60000	**0.72536**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.04456**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.04456**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.11333**	2.50740	2.50740	**-0.15643**
	setup	**CLK (R)**	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.12952**	2.50740	2.50740	**0.17414**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03179**	1.26300	1.26300	**-0.11333**	2.50740	2.50740	**-0.15643**
	setup	**CLK (R)**	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.12952**	2.50740	2.50740	**0.17414**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.16529**
	setup	**CLK (R)**	0.01860	0.01860	**0.04401**	1.26300	1.26300	**0.13492**	2.50740	2.50740	**0.20070**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.16529**
	setup	**CLK (R)**	0.01860	0.01860	**0.04401**	1.26300	1.26300	**0.13492**	2.50740	2.50740	**0.19775**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.29220**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.28630**
sg13g2_dfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.29220**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.28630**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.05417**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.05417**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	**0.05006**	0.32940	0.06480	**0.06511**	2.50740	0.30000	**0.19500**
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	**0.05751**	0.32940	0.12960	**0.07247**	2.50740	0.60000	**0.20121**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	**0.05157**	0.32940	0.06480	**0.06685**	2.50740	0.30000	**0.18997**
	RESET_B	0.01860	0.00100	**0.00044**	0.32940	0.06480	**0.00125**	2.50740	0.30000	**-0.00067**
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	**0.05890**	0.32940	0.12960	**0.07446**	2.50740	0.60000	**0.19683**
	RESET_B	0.01860	0.00100	**0.00019**	0.32940	0.12960	**0.00095**	2.50740	0.60000	**-0.00080**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.01832**	0.32940	**0.03183**	2.50740	**0.15509**
sg13g2_dfrbpq_2	0.01860	**0.01843**	0.32940	**0.03194**	2.50740	**0.15559**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.03976**	0.32940	**0.05398**	2.50740	**0.17810**
sg13g2_dfrbpq_2	0.01860	**0.03973**	0.32940	**0.05398**	2.50740	**0.17805**

Passive power(pJ) for CLK rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.01832**	0.32940	**0.03183**	2.50740	**0.15509**
	(D * !RESET_B * !Q)	0.01860	**0.01935**	0.32940	**0.03278**	2.50740	**0.15603**
	(!D * RESET_B * !Q)	0.01860	**0.01789**	0.32940	**0.03139**	2.50740	**0.15465**
	(!D * !RESET_B * !Q)	0.01860	**0.01940**	0.32940	**0.03281**	2.50740	**0.15601**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.01843**	0.32940	**0.03194**	2.50740	**0.15559**
	(D * !RESET_B * !Q)	0.01860	**0.01949**	0.32940	**0.03289**	2.50740	**0.15629**
	(!D * RESET_B * !Q)	0.01860	**0.01802**	0.32940	**0.03152**	2.50740	**0.15510**
	(!D * !RESET_B * !Q)	0.01860	**0.01952**	0.32940	**0.03293**	2.50740	**0.15632**

Passive power(pJ) for CLK falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.04228**	0.32940	**0.05649**	2.50740	**0.18060**
	(D * RESET_B * !Q)	0.01860	**0.03976**	0.32940	**0.05398**	2.50740	**0.17810**
	(D * !RESET_B * !Q)	0.01860	**0.01991**	0.32940	**0.03362**	2.50740	**0.15315**
	(!D * RESET_B * Q)	0.01860	**0.07288**	0.32940	**0.08591**	2.50740	**0.20440**
	(!D * RESET_B * !Q)	0.01860	**0.01988**	0.32940	**0.03364**	2.50740	**0.15323**
	(!D * !RESET_B * !Q)	0.01860	**0.01991**	0.32940	**0.03361**	2.50740	**0.15313**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.04846**	0.32940	**0.06266**	2.50740	**0.18672**
	(D * RESET_B * !Q)	0.01860	**0.03973**	0.32940	**0.05398**	2.50740	**0.17805**
	(D * !RESET_B * !Q)	0.01860	**0.01996**	0.32940	**0.03367**	2.50740	**0.15317**
	(!D * RESET_B * Q)	0.01860	**0.08675**	0.32940	**0.09953**	2.50740	**0.21804**
	(!D * RESET_B * !Q)	0.01860	**0.01994**	0.32940	**0.03370**	2.50740	**0.15326**
	(!D * !RESET_B * !Q)	0.01860	**0.01996**	0.32940	**0.03366**	2.50740	**0.15316**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00151**	0.32940	**0.00669**	2.50740	**0.05155**
sg13g2_dfrbpq_2	0.01860	**0.00152**	0.32940	**0.00669**	2.50740	**0.05153**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00190**	0.32940	**0.00727**	2.50740	**0.05193**
sg13g2_dfrbpq_2	0.01860	**0.00191**	0.32940	**0.00728**	2.50740	**0.05193**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00151**	0.32940	**0.00669**	2.50740	**0.05155**
	(!CLK * RESET_B)	0.01860	**0.02206**	0.32940	**0.02784**	2.50740	**0.08228**
	(!CLK * !RESET_B)	0.01860	**-0.00012**	0.32940	**-0.00011**	2.50740	**-0.00011**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00152**	0.32940	**0.00669**	2.50740	**0.05153**
	(!CLK * RESET_B)	0.01860	**0.02202**	0.32940	**0.02778**	2.50740	**0.08225**
	(!CLK * !RESET_B)	0.01860	**-0.00011**	0.32940	**-0.00010**	2.50740	**-0.00011**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00190**	0.32940	**0.00727**	2.50740	**0.05193**
	(!CLK * RESET_B)	0.01860	**0.01778**	0.32940	**0.02380**	2.50740	**0.07767**
	(!CLK * !RESET_B)	0.01860	**0.00036**	0.32940	**0.00036**	2.50740	**0.00036**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00191**	0.32940	**0.00728**	2.50740	**0.05193**
	(!CLK * RESET_B)	0.01860	**0.01778**	0.32940	**0.02384**	2.50740	**0.07773**
	(!CLK * !RESET_B)	0.01860	**0.00036**	0.32940	**0.00036**	2.50740	**0.00036**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.02370**	0.32940	**0.03017**	2.50740	**0.10181**
sg13g2_dfrbpq_2	0.01860	**0.02372**	0.32940	**0.03019**	2.50740	**0.10164**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.05025**	0.32940	**0.06509**	2.50740	**0.18546**
sg13g2_dfrbpq_2	0.01860	**0.05762**	0.32940	**0.07244**	2.50740	**0.19263**

Passive power(pJ) for RESET_B rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**(CLK * D * !Q)**	0.01860	**0.00298**	0.32940	**0.00730**	2.50740	**0.05204**
	(CLK * !D * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q)	0.01860	**0.02370**	0.32940	**0.03017**	2.50740	**0.10181**
	(!CLK * !D * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_dfrbpq_2	**(CLK * D * !Q)**	0.01860	**0.00304**	0.32940	**0.00736**	2.50740	**0.05218**
	(CLK * !D * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q)	0.01860	**0.02372**	0.32940	**0.03019**	2.50740	**0.10164**
	(!CLK * !D * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(CLK * D * !Q)	0.01860	**0.05025**	0.32940	**0.06509**	2.50740	**0.18546**
	(CLK * !D * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q)	0.01860	**0.01653**	0.32940	**0.02310**	2.50740	**0.09543**
	(!CLK * !D * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_dfrbpq_2	(CLK * D * !Q)	0.01860	**0.05762**	0.32940	**0.07244**	2.50740	**0.19263**
	(CLK * !D * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q)	0.01860	**0.01649**	0.32940	**0.02307**	2.50740	**0.09528**
	(!CLK * !D * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

DFRBPx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT	
CLK	D	RESET_B	Q	Q_N
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
sg13g2_dfrbp_1	52.61760
sg13g2_dfrbp_2	54.43200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CLK	D	RESET_B	Q	Q_N
sg13g2_dfrbp_1	0.00319	0.00171	0.00575	0.30000	0.30000
sg13g2_dfrbp_2	0.00320	0.00172	0.00580	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_1	3869.43000	4742.33000	5364.35000
sg13g2_dfrbp_2	4783.49000	5625.06000	6226.84000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.08909**	0.32940	0.06480	**0.22210**	2.50740	0.30000	**0.62209**
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.11331**	0.32940	0.12960	**0.24482**	2.50740	0.60000	**0.65265**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.08372**	0.32940	0.06480	**0.20394**	2.50740	0.30000	**0.53854**
	RESET_B->Q (FF)	0.01860	0.00100	**0.11540**	0.32940	0.06480	**0.26452**	2.50740	0.30000	**0.72517**
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.10210**	0.32940	0.12960	**0.22301**	2.50740	0.60000	**0.56131**
	RESET_B->Q (FF)	0.01860	0.00100	**0.13393**	0.32940	0.12960	**0.28369**	2.50740	0.60000	**0.74792**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.06611**	0.32940	0.06480	**0.21130**	2.50740	0.30000	**0.59148**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.09790**	0.32940	0.06480	**0.27068**	2.50740	0.30000	**0.77805**
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.06901**	0.32940	0.12960	**0.21914**	2.50740	0.60000	**0.60116**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10149**	0.32940	0.12960	**0.27871**	2.50740	0.60000	**0.78723**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.06958**	0.32940	0.06480	**0.21586**	2.50740	0.30000	**0.57889**
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.07510**	0.32940	0.12960	**0.22752**	2.50740	0.60000	**0.59349**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.05417**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06378**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06058**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06058**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.11333**	2.50740	2.50740	**-0.15643**
	setup	**CLK (R)**	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.12952**	2.50740	2.50740	**0.17414**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.15643**
	setup	**CLK (R)**	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.12952**	2.50740	2.50740	**0.17414**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.16529**
	setup	**CLK (R)**	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.13492**	2.50740	2.50740	**0.20070**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.16529**
	setup	**CLK (R)**	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.13492**	2.50740	2.50740	**0.20070**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.28925**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.28630**
sg13g2_dfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.28925**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.28630**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.06291**	0.32940	0.06480	**0.16312**	2.50740	0.30000	**0.61197**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.08367**	0.32940	0.12960	**0.26678**	2.50740	0.60000	**1.03438**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.06257**	0.32940	0.06480	**0.16430**	2.50740	0.30000	**0.60667**
	RESET_B	0.01860	0.00100	**0.00148**	0.32940	0.06480	**0.08831**	2.50740	0.30000	**0.40494**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.08112**	0.32940	0.12960	**0.26857**	2.50740	0.60000	**1.02891**
	RESET_B	0.01860	0.00100	**0.00104**	0.32940	0.12960	**0.17348**	2.50740	0.60000	**0.80820**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.06266**	0.32940	0.06480	**0.16439**	2.50740	0.30000	**0.60742**
	RESET_B	0.01860	0.00100	**0.00143**	0.32940	0.06480	**0.08838**	2.50740	0.30000	**0.40521**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.08125**	0.32940	0.12960	**0.26871**	2.50740	0.60000	**1.03118**
	RESET_B	0.01860	0.00100	**0.00099**	0.32940	0.12960	**0.17383**	2.50740	0.60000	**0.80969**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.06299**	0.32940	0.06480	**0.16315**	2.50740	0.30000	**0.61137**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.08376**	0.32940	0.12960	**0.26699**	2.50740	0.60000	**1.03213**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.01836**	0.32940	**0.03182**	2.50740	**0.15510**
sg13g2_dfrbp_2	0.01860	**0.01850**	0.32940	**0.03193**	2.50740	**0.15545**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.03704**	0.32940	**0.05127**	2.50740	**0.17539**
sg13g2_dfrbp_2	0.01860	**0.03800**	0.32940	**0.05222**	2.50740	**0.17630**

Passive power(pJ) for CLK rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.01836**	0.32940	**0.03182**	2.50740	**0.15510**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01940**	0.32940	**0.03275**	2.50740	**0.15601**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01793**	0.32940	**0.03140**	2.50740	**0.15488**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01943**	0.32940	**0.03280**	2.50740	**0.15599**
sg13g2_dfrbp_2	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.01850**	0.32940	**0.03193**	2.50740	**0.15545**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01952**	0.32940	**0.03289**	2.50740	**0.15627**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01807**	0.32940	**0.03151**	2.50740	**0.15525**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01956**	0.32940	**0.03292**	2.50740	**0.15627**

Passive power(pJ) for CLK falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.03704**	0.32940	**0.05127**	2.50740	**0.17539**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03973**	0.32940	**0.05397**	2.50740	**0.17812**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01991**	0.32940	**0.03361**	2.50740	**0.15312**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.07795**	0.32940	**0.09055**	2.50740	**0.20929**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01988**	0.32940	**0.03364**	2.50740	**0.15317**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01992**	0.32940	**0.03360**	2.50740	**0.15312**
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.03800**	0.32940	**0.05222**	2.50740	**0.17630**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03981**	0.32940	**0.05397**	2.50740	**0.17805**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01998**	0.32940	**0.03366**	2.50740	**0.15310**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.10075**	0.32940	**0.11044**	2.50740	**0.22904**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01997**	0.32940	**0.03370**	2.50740	**0.15320**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01999**	0.32940	**0.03366**	2.50740	**0.15312**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00151**	0.32940	**0.00669**	2.50740	**0.05152**
sg13g2_dfrbp_2	0.01860	**0.00152**	0.32940	**0.00669**	2.50740	**0.05150**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00190**	0.32940	**0.00727**	2.50740	**0.05193**
sg13g2_dfrbp_2	0.01860	**0.00191**	0.32940	**0.00728**	2.50740	**0.05194**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00151**	0.32940	**0.00669**	2.50740	**0.05152**
	(!CLK * RESET_B)	0.01860	**0.02203**	0.32940	**0.02784**	2.50740	**0.08230**
	(!CLK * !RESET_B)	0.01860	**-0.00012**	0.32940	**-0.00011**	2.50740	**-0.00011**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00152**	0.32940	**0.00669**	2.50740	**0.05150**
	(!CLK * RESET_B)	0.01860	**0.02198**	0.32940	**0.02779**	2.50740	**0.08227**
	(!CLK * !RESET_B)	0.01860	**-0.00011**	0.32940	**-0.00010**	2.50740	**-0.00011**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00190**	0.32940	**0.00727**	2.50740	**0.05193**
	(!CLK * RESET_B)	0.01860	**0.01774**	0.32940	**0.02380**	2.50740	**0.07768**
	(!CLK * !RESET_B)	0.01860	**0.00036**	0.32940	**0.00036**	2.50740	**0.00036**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00191**	0.32940	**0.00728**	2.50740	**0.05194**
	(!CLK * RESET_B)	0.01860	**0.01784**	0.32940	**0.02384**	2.50740	**0.07773**
	(!CLK * !RESET_B)	0.01860	**0.00036**	0.32940	**0.00036**	2.50740	**0.00036**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.02370**	0.32940	**0.03017**	2.50740	**0.10169**
sg13g2_dfrbp_2	0.01860	**0.02379**	0.32940	**0.03021**	2.50740	**0.10168**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.06067**	0.32940	**0.07578**	2.50740	**0.19727**
sg13g2_dfrbp_2	0.01860	**0.07941**	0.32940	**0.09460**	2.50740	**0.21698**

Passive power(pJ) for RESET_B rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00298**	0.32940	**0.00731**	2.50740	**0.05202**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02370**	0.32940	**0.03017**	2.50740	**0.10169**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00306**	0.32940	**0.00737**	2.50740	**0.05220**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02379**	0.32940	**0.03021**	2.50740	**0.10168**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.06067**	0.32940	**0.07578**	2.50740	**0.19727**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01652**	0.32940	**0.02310**	2.50740	**0.09543**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.07941**	0.32940	**0.09460**	2.50740	**0.21698**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01648**	0.32940	**0.02306**	2.50740	**0.09528**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

DLHQ

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
D	GATE	Q
x	0	IQ
0	1	0
1	1	1

Footprint

Cell Name	Area
sg13g2_dlhq_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	D	GATE	Q
sg13g2_dlhq_1	0.00260	0.00266	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	2629.66000	3038.64000	3638.71000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.08437**	0.32940	0.06480	**0.20996**	2.50740	0.30000	**0.58881**
	GATE->Q (RR)	0.01860	0.00100	**0.07250**	0.32940	0.06480	**0.19649**	2.50740	0.30000	**0.52514**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.07620**	0.32940	0.06480	**0.18841**	2.50740	0.30000	**0.51932**
	GATE->Q (RF)	0.01860	0.00100	**0.07843**	0.32940	0.06480	**0.18909**	2.50740	0.30000	**0.46420**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.07016**	2.50740	2.50740	**-0.05903**
	setup	GATE (F)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.08905**	2.50740	2.50740	**0.09445**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**0.02698**	2.50740	2.50740	**0.07084**
	setup	GATE (F)	0.01860	0.01860	**0.02201**	1.26300	1.26300	**-0.02429**	2.50740	2.50740	**-0.06493**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.03815**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.03129**	0.32940	0.06480	**0.03197**	2.50740	0.30000	**0.03507**
	GATE	0.01860	0.00100	**0.02787**	0.32940	0.06480	**0.02919**	2.50740	0.30000	**0.03542**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.03098**	0.32940	0.06480	**0.03204**	2.50740	0.30000	**0.03457**
	GATE	0.01860	0.00100	**0.02983**	0.32940	0.06480	**0.03127**	2.50740	0.30000	**0.02946**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00511**	0.32940	**0.01438**	2.50740	**0.09801**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00677**	0.32940	**0.01617**	2.50740	**0.09787**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00504**	0.32940	**0.01423**	2.50740	**0.09768**
	(!GATE * !Q)	0.01860	**0.00511**	0.32940	**0.01438**	2.50740	**0.09801**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00667**	0.32940	**0.01622**	2.50740	**0.09779**
	(!GATE * !Q)	0.01860	**0.00677**	0.32940	**0.01617**	2.50740	**0.09787**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.01301**	0.32940	**0.02460**	2.50740	**0.12754**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.02901**	0.32940	**0.04131**	2.50740	**0.14365**

Passive power(pJ) for GATE rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.01301**	0.32940	**0.02460**	2.50740	**0.12754**

Passive power(pJ) for GATE falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.02901**	0.32940	**0.04131**	2.50740	**0.14365**

DLHRQ

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
D	GATE	RESET_B	Q
x	x	0	0
x	0	1	IQ
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
sg13g2_dlhrq_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	GATE	RESET_B	Q
sg13g2_dlhrq_1	0.00244	0.00254	0.00332	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	2945.58000	3579.73000	4046.30000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.09030**	0.32940	0.06480	**0.21839**	2.50740	0.30000	**0.59323**
	GATE->Q (RR)	0.01860	0.00100	**0.08183**	0.32940	0.06480	**0.20944**	2.50740	0.30000	**0.53728**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.08025**	0.32940	0.06480	**0.19421**	2.50740	0.30000	**0.53143**
	GATE->Q (RF)	0.01860	0.00100	**0.08358**	0.32940	0.06480	**0.19754**	2.50740	0.30000	**0.47980**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03368**	0.32940	0.06480	**0.16282**	2.50740	0.30000	**0.56528**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.06206**	2.50740	2.50740	**-0.04722**
	setup	GATE (F)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.08095**	2.50740	2.50740	**0.08264**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**0.02698**	2.50740	2.50740	**0.06789**
	setup	GATE (F)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**-0.02159**	2.50740	2.50740	**-0.06198**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.04135**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.00734**	1.26300	1.26300	**-0.09444**	2.50740	2.50740	**-0.15643**
	removal	GATE (F)	0.01860	0.01860	**0.01467**	1.26300	1.26300	**0.09984**	2.50740	2.50740	**0.16529**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.08942**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00379**	0.32940	0.06480	**0.00429**	2.50740	0.30000	**0.00376**
	GATE	0.01860	0.00100	**0.02213**	0.32940	0.06480	**0.02243**	2.50740	0.30000	**0.02151**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**-0.00379**	0.32940	0.06480	**-0.00429**	2.50740	0.30000	**-0.00376**
	GATE	0.01860	0.00100	**0.02201**	0.32940	0.06480	**0.02269**	2.50740	0.30000	**0.01328**
	RESET_B	0.01860	0.00100	**0.01485**	0.32940	0.06480	**0.02627**	2.50740	0.30000	**0.11850**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.03284**	0.32940	**0.04193**	2.50740	**0.12877**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.04577**	0.32940	**0.05740**	2.50740	**0.14270**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00034**	0.32940	**0.00964**	2.50740	**0.09323**
	!RESET_B	0.01860	**0.03284**	0.32940	**0.04193**	2.50740	**0.12877**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00221**	0.32940	**0.01175**	2.50740	**0.09344**
	!RESET_B	0.01860	**0.04577**	0.32940	**0.05740**	2.50740	**0.14270**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01981**	0.32940	**0.03189**	2.50740	**0.14207**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.02945**	0.32940	**0.04178**	2.50740	**0.14344**

Passive power(pJ) for GATE rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.01981**	0.32940	**0.03189**	2.50740	**0.14207**
	(!D * !RESET_B * !Q)	0.01860	**0.01377**	0.32940	**0.02517**	2.50740	**0.12769**

Passive power(pJ) for GATE falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.02328**	0.32940	**0.03639**	2.50740	**0.14390**
	(!D * RESET_B * !Q)	0.01860	**0.02945**	0.32940	**0.04178**	2.50740	**0.14344**
	(!D * !RESET_B * !Q)	0.01860	**0.02961**	0.32940	**0.04173**	2.50740	**0.14410**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	**(D * !GATE * !Q)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	**(D * !GATE * !Q)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

DLHR

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT	
D	GATE	RESET_B	Q	Q_N
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GATE	RESET_B	Q	Q_N
sg13g2_dlhr_1	0.00239	0.00261	0.00351	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	3678.65000	4335.23000	4779.33000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.09773**	0.32940	0.06480	**0.22974**	2.50740	0.30000	**0.60540**
	GATE->Q (RR)	0.01860	0.00100	**0.08960**	0.32940	0.06480	**0.22127**	2.50740	0.30000	**0.55056**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.08308**	0.32940	0.06480	**0.19826**	2.50740	0.30000	**0.53148**
	GATE->Q (RF)	0.01860	0.00100	**0.08659**	0.32940	0.06480	**0.20212**	2.50740	0.30000	**0.48155**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03648**	0.32940	0.06480	**0.17164**	2.50740	0.30000	**0.56817**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.10095**	0.32940	0.06480	**0.22201**	2.50740	0.30000	**0.60114**
	GATE->Q_N (RR)	0.01860	0.00100	**0.10453**	0.32940	0.06480	**0.22589**	2.50740	0.30000	**0.55142**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.05438**	0.32940	0.06480	**0.18939**	2.50740	0.30000	**0.58391**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.11808**	0.32940	0.06480	**0.22866**	2.50740	0.30000	**0.55806**
	GATE->Q_N (RF)	0.01860	0.00100	**0.10981**	0.32940	0.06480	**0.22022**	2.50740	0.30000	**0.50326**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.06476**	2.50740	2.50740	**-0.05313**
	setup	GATE (F)	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.08365**	2.50740	2.50740	**0.08559**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**0.02698**	2.50740	2.50740	**0.06789**
	setup	GATE (F)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**-0.02159**	2.50740	2.50740	**-0.06198**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.04456**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**-0.00245**	1.26300	1.26300	**-0.06206**	2.50740	2.50740	**-0.10626**
	removal	GATE (F)	0.01860	0.01860	**0.00978**	1.26300	1.26300	**0.06746**	2.50740	2.50740	**0.11216**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.09262**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.01031**	0.32940	0.06480	**0.01075**	2.50740	0.30000	**0.01064**
	GATE	0.01860	0.00100	**0.01936**	0.32940	0.06480	**0.01969**	2.50740	0.30000	**0.01932**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00295**	0.32940	0.06480	**0.00248**	2.50740	0.30000	**0.00110**
	GATE	0.01860	0.00100	**0.01918**	0.32940	0.06480	**0.01977**	2.50740	0.30000	**0.01472**
	RESET_B	0.01860	0.00100	**0.01530**	0.32940	0.06480	**0.02176**	2.50740	0.30000	**0.07367**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00298**	0.32940	0.06480	**0.00254**	2.50740	0.30000	**0.00179**
	GATE	0.01860	0.00100	**0.02885**	0.32940	0.06480	**0.03554**	2.50740	0.30000	**0.08609**
	RESET_B	0.01860	0.00100	**0.01534**	0.32940	0.06480	**0.02173**	2.50740	0.30000	**0.07424**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.01030**	0.32940	0.06480	**0.01070**	2.50740	0.30000	**0.01010**
	GATE	0.01860	0.00100	**0.01937**	0.32940	0.06480	**0.01966**	2.50740	0.30000	**0.01887**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.03221**	0.32940	**0.04145**	2.50740	**0.12827**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.04540**	0.32940	**0.05719**	2.50740	**0.14293**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00181**	0.32940	**0.01123**	2.50740	**0.09510**
	!RESET_B	0.01860	**0.03221**	0.32940	**0.04145**	2.50740	**0.12827**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00358**	0.32940	**0.01322**	2.50740	**0.09512**
	!RESET_B	0.01860	**0.04540**	0.32940	**0.05719**	2.50740	**0.14293**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01928**	0.32940	**0.03140**	2.50740	**0.14198**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.02927**	0.32940	**0.04149**	2.50740	**0.14367**

Passive power(pJ) for GATE rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01928**	0.32940	**0.03140**	2.50740	**0.14198**
	(!D * !RESET_B * !Q)	0.01860	**0.01327**	0.32940	**0.02478**	2.50740	**0.12751**

Passive power(pJ) for GATE falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.02386**	0.32940	**0.03703**	2.50740	**0.14500**
	(!D * RESET_B * !Q)	0.01860	**0.02927**	0.32940	**0.04149**	2.50740	**0.14367**
	(!D * !RESET_B * !Q)	0.01860	**0.02932**	0.32940	**0.04150**	2.50740	**0.14372**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

DLLRQ

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
D	GATE_N	RESET_B	Q
0	0	x	0
x	1	0	0
x	1	1	IQ
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	GATE_N	RESET_B	Q
sg13g2_dllrq_1	0.00235	0.00250	0.00340	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	2945.41000	3579.71000	4046.29000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.08957**	0.32940	0.06480	**0.21727**	2.50740	0.30000	**0.59133**
	GATE_N->Q (FR)	0.01860	0.00100	**0.09901**	0.32940	0.06480	**0.23803**	2.50740	0.30000	**0.68138**
	RESET_B->Q (RR)	0.01860	0.00100	**0.04140**	0.32940	0.06480	**0.17226**	2.50740	0.30000	**0.60567**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.07966**	0.32940	0.06480	**0.19256**	2.50740	0.30000	**0.52737**
	GATE_N->Q (FF)	0.01860	0.00100	**0.07605**	0.32940	0.06480	**0.20539**	2.50740	0.30000	**0.61319**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03390**	0.32940	0.06480	**0.16237**	2.50740	0.30000	**0.56505**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.03179**	1.26300	1.26300	**-0.05667**	2.50740	2.50740	**-0.08855**
	setup	GATE_N (R)	0.01860	0.01860	**0.03668**	1.26300	1.26300	**0.05936**	2.50740	2.50740	**0.09150**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.03912**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.20661**
	setup	GATE_N (R)	0.01860	0.01860	**0.04401**	1.26300	1.26300	**0.16190**	2.50740	2.50740	**0.24793**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.04776**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**-0.02429**	2.50740	2.50740	**-0.00295**
	removal	GATE_N (R)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**0.02968**	2.50740	2.50740	**0.00885**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.08942**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.01560**	0.32940	0.06480	**0.01619**	2.50740	0.30000	**0.02007**
	GATE_N	0.01860	0.00100	**0.01373**	0.32940	0.06480	**0.01406**	2.50740	0.30000	**0.01193**
	RESET_B	0.01860	0.00100	**0.01946**	0.32940	0.06480	**0.02797**	2.50740	0.30000	**0.12257**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00323**	0.32940	0.06480	**0.00137**	2.50740	0.30000	**-0.00016**
	GATE_N	0.01860	0.00100	**0.01126**	0.32940	0.06480	**0.01280**	2.50740	0.30000	**0.01720**
	RESET_B	0.01860	0.00100	**0.01504**	0.32940	0.06480	**0.02651**	2.50740	0.30000	**0.11975**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.02075**	0.32940	**0.02998**	2.50740	**0.11286**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.03228**	0.32940	**0.04455**	2.50740	**0.13021**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00023**	0.32940	**0.00956**	2.50740	**0.09336**
	!RESET_B	0.01860	**0.02075**	0.32940	**0.02998**	2.50740	**0.11286**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00219**	0.32940	**0.01180**	2.50740	**0.09377**
	!RESET_B	0.01860	**0.03228**	0.32940	**0.04455**	2.50740	**0.13021**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.02289**	0.32940	**0.03406**	2.50740	**0.13605**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.02950**	0.32940	**0.04178**	2.50740	**0.14346**

Passive power(pJ) for GATE_N rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.02289**	0.32940	**0.03406**	2.50740	**0.13605**
	(!D * !RESET_B * !Q)	0.01860	**0.01227**	0.32940	**0.02378**	2.50740	**0.12658**

Passive power(pJ) for GATE_N falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.02381**	0.32940	**0.03599**	2.50740	**0.13680**
	(!D * RESET_B * !Q)	0.01860	**0.02946**	0.32940	**0.04180**	2.50740	**0.14537**
	(!D * !RESET_B * !Q)	0.01860	**0.02950**	0.32940	**0.04178**	2.50740	**0.14346**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	**(D * GATE_N * !Q)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	**(D * GATE_N * !Q)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

DLLR

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT	
D	GATE_N	RESET_B	Q	Q_N
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GATE_N	RESET_B	Q	Q_N
sg13g2_dllr_1	0.00246	0.00263	0.00347	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	3678.46000	4403.39000	4779.26000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.09834**	0.32940	0.06480	**0.22987**	2.50740	0.30000	**0.60424**
	GATE_N->Q (FR)	0.01860	0.00100	**0.10783**	0.32940	0.06480	**0.25123**	2.50740	0.30000	**0.69521**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.08414**	0.32940	0.06480	**0.19919**	2.50740	0.30000	**0.53367**
	GATE_N->Q (FF)	0.01860	0.00100	**0.08095**	0.32940	0.06480	**0.21324**	2.50740	0.30000	**0.62248**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03636**	0.32940	0.06480	**0.17286**	2.50740	0.30000	**0.52528**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.10185**	0.32940	0.06480	**0.22272**	2.50740	0.30000	**0.60236**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.09872**	0.32940	0.06480	**0.23671**	2.50740	0.30000	**0.69084**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.05446**	0.32940	0.06480	**0.19090**	2.50740	0.30000	**0.58689**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.11846**	0.32940	0.06480	**0.22885**	2.50740	0.30000	**0.55705**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.12781**	0.32940	0.06480	**0.25020**	2.50740	0.30000	**0.64817**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.03668**	1.26300	1.26300	**-0.05936**	2.50740	2.50740	**-0.09150**
	setup	GATE_N (R)	0.01860	0.01860	**0.04157**	1.26300	1.26300	**0.06476**	2.50740	2.50740	**0.09740**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.20661**
	setup	GATE_N (R)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.16460**	2.50740	2.50740	**0.25088**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.05417**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.01223**	1.26300	1.26300	**0.00540**	2.50740	2.50740	**0.05018**
	removal	GATE_N (R)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**0.00000**	2.50740	2.50740	**-0.04427**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.09262**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.02154**	0.32940	0.06480	**0.10935**	2.50740	0.30000	**0.42888**
	GATE_N	0.01860	0.00100	**0.03751**	0.32940	0.06480	**0.12519**	2.50740	0.30000	**0.44410**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00700**	0.32940	0.06480	**0.08868**	2.50740	0.30000	**0.40595**
	GATE_N	0.01860	0.00100	**0.03396**	0.32940	0.06480	**0.12290**	2.50740	0.30000	**0.44802**
	RESET_B	0.01860	0.00100	**0.04719**	0.32940	0.06480	**0.14571**	2.50740	0.30000	**0.54164**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00710**	0.32940	0.06480	**0.08878**	2.50740	0.30000	**0.40761**
	GATE_N	0.01860	0.00100	**0.05822**	0.32940	0.06480	**0.15921**	2.50740	0.30000	**0.58580**
	RESET_B	0.01860	0.00100	**0.04724**	0.32940	0.06480	**0.14563**	2.50740	0.30000	**0.54242**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.02151**	0.32940	0.06480	**0.10926**	2.50740	0.30000	**0.42791**
	GATE_N	0.01860	0.00100	**0.03754**	0.32940	0.06480	**0.12513**	2.50740	0.30000	**0.44338**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.03344**	0.32940	**0.04265**	2.50740	**0.12951**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.04546**	0.32940	**0.06152**	2.50740	**0.14698**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00192**	0.32940	**0.01130**	2.50740	**0.09481**
	!RESET_B	0.01860	**0.03344**	0.32940	**0.04265**	2.50740	**0.12951**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00464**	0.32940	**0.01425**	2.50740	**0.09600**
	!RESET_B	0.01860	**0.04546**	0.32940	**0.06152**	2.50740	**0.14698**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.02673**	0.32940	**0.03907**	2.50740	**0.14305**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.02413**	0.32940	**0.03627**	2.50740	**0.13684**

Passive power(pJ) for GATE_N rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.02310**	0.32940	**0.03423**	2.50740	**0.13605**
	(!D * RESET_B * !Q)	0.01860	**0.02673**	0.32940	**0.03907**	2.50740	**0.14305**
	(!D * !RESET_B * !Q)	0.01860	**0.02678**	0.32940	**0.03899**	2.50740	**0.14313**

Passive power(pJ) for GATE_N falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.02413**	0.32940	**0.03627**	2.50740	**0.13684**
	(!D * !RESET_B * !Q)	0.01860	**0.01617**	0.32940	**0.02842**	2.50740	**0.13033**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

DLYGATE4SD1

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00169	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	1089.91000	1219.16000	1348.41000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.05676**	0.32940	0.06480	**0.17426**	2.50740	0.30000	**0.48748**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.06520**	0.32940	0.06480	**0.19844**	2.50740	0.30000	**0.64328**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.02450**	0.32940	0.06480	**0.03131**	2.50740	0.30000	**0.08675**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.02349**	0.32940	0.06480	**0.03070**	2.50740	0.30000	**0.08506**

DLYGATE4SD2

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00168	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	1542.40000	1671.65000	1800.90000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.08673**	0.32940	0.06480	**0.21438**	2.50740	0.30000	**0.54130**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.09591**	0.32940	0.06480	**0.24286**	2.50740	0.30000	**0.70115**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.02987**	0.32940	0.06480	**0.03569**	2.50740	0.30000	**0.08767**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.02920**	0.32940	0.06480	**0.03510**	2.50740	0.30000	**0.08705**

DLYGATE4SD3

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd3_1	0.00168	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	3719.05000	3848.28000	3977.51000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.18787**	0.32940	0.06480	**0.33729**	2.50740	0.30000	**0.71018**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.19020**	0.32940	0.06480	**0.36513**	2.50740	0.30000	**0.86724**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.04503**	0.32940	0.06480	**0.04843**	2.50740	0.30000	**0.09691**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.04473**	0.32940	0.06480	**0.04778**	2.50740	0.30000	**0.09677**

EBUFNx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A	TE_B	Z
0	0	0
1	0	1
-	1	HiZ

Footprint

Cell Name	Area
sg13g2_ebufn_2	18.14400
sg13g2_ebufn_4	27.21600
sg13g2_ebufn_8	45.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_2	0.00298	0.00723	0.60000
sg13g2_ebufn_4	0.00334	0.01177	1.20000
sg13g2_ebufn_8	0.00655	0.01966	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_2	819.84300	2120.06000	3500.30000
sg13g2_ebufn_4	985.89900	3586.29000	6679.77000
sg13g2_ebufn_8	1242.24000	6703.48000	13150.90000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00605	**0.03375**	0.32940	0.13465	**0.25386**	2.50740	0.60505	**0.99353**
	TE_B->Z (RR)	0.01860	0.00605	**0.02664**	0.32940	0.13465	**0.06113**	2.50740	0.60505	**0.11847**
	TE_B->Z (FR)	0.01860	0.00605	**0.01795**	0.32940	0.13465	**0.25381**	2.50740	0.60505	**1.22958**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01100	**0.04030**	0.32940	0.26920	**0.27659**	2.50740	1.21000	**1.03729**
	TE_B->Z (RR)	0.01860	0.01100	**0.03170**	0.32940	0.26920	**0.07501**	2.50740	1.21000	**0.14659**
	TE_B->Z (FR)	0.01860	0.01100	**0.01780**	0.32940	0.26920	**0.25719**	2.50740	1.21000	**1.24164**
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.02075	**0.03955**	0.32940	0.53815	**0.27694**	2.50740	2.41975	**1.04355**
	TE_B->Z (RR)	0.01860	0.02075	**0.04152**	0.32940	0.53815	**0.10084**	2.50740	2.41975	**0.20980**
	TE_B->Z (FR)	0.01860	0.02075	**0.01853**	0.32940	0.53815	**0.25906**	2.50740	2.41975	**1.24438**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00840	**0.03461**	0.32940	0.13700	**0.21801**	2.50740	0.60740	**0.81918**
	TE_B->Z (RF)	0.01860	0.00840	**0.01559**	0.32940	0.13700	**0.07332**	2.50740	0.60740	**0.46741**
	TE_B->Z (FF)	0.01860	0.00840	**0.02876**	0.32940	0.13700	**0.20078**	2.50740	0.60740	**0.76794**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01554	**0.04425**	0.32940	0.27374	**0.24593**	2.50740	1.21454	**0.87757**
	TE_B->Z (RF)	0.01860	0.01554	**0.01644**	0.32940	0.27374	**0.07378**	2.50740	1.21454	**0.47032**
	TE_B->Z (FF)	0.01860	0.01554	**0.03376**	0.32940	0.27374	**0.22087**	2.50740	1.21454	**0.81540**
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02970	**0.04335**	0.32940	0.54710	**0.24552**	2.50740	2.42870	**0.88031**
	TE_B->Z (RF)	0.01860	0.02970	**0.01792**	0.32940	0.54710	**0.07662**	2.50740	2.42870	**0.47277**
	TE_B->Z (FF)	0.01860	0.02970	**0.04380**	0.32940	0.54710	**0.25246**	2.50740	2.42870	**0.88413**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00605	**0.02261**	0.32940	0.13465	**0.02280**	2.50740	0.60505	**0.02141**
	TE_B	0.01860	0.00605	**0.00510**	0.32940	0.13465	**0.00464**	2.50740	0.60505	**0.00469**
sg13g2_ebufn_4	A	0.01860	0.01100	**0.04337**	0.32940	0.26920	**0.04513**	2.50740	1.21000	**0.04565**
	TE_B	0.01860	0.01100	**0.00920**	0.32940	0.26920	**0.00841**	2.50740	1.21000	**0.00895**
sg13g2_ebufn_8	A	0.01860	0.02075	**0.08645**	0.32940	0.53815	**0.09149**	2.50740	2.41975	**0.10428**
	TE_B	0.01860	0.02075	**0.01753**	0.32940	0.53815	**0.01576**	2.50740	2.41975	**0.01642**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00840	**0.01786**	0.32940	0.13700	**0.01873**	2.50740	0.60740	**0.01613**
	TE_B	0.01860	0.00840	**0.00378**	0.32940	0.13700	**0.00381**	2.50740	0.60740	**0.00269**
sg13g2_ebufn_4	A	0.01860	0.01554	**0.03735**	0.32940	0.27374	**0.03739**	2.50740	1.21454	**0.03461**
	TE_B	0.01860	0.01554	**0.00685**	0.32940	0.27374	**0.00699**	2.50740	1.21454	**0.00610**
sg13g2_ebufn_8	A	0.01860	0.02970	**0.07466**	0.32940	0.54710	**0.07478**	2.50740	2.42870	**0.06586**
	TE_B	0.01860	0.02970	**0.01265**	0.32940	0.54710	**0.01340**	2.50740	2.42870	**0.01560**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00338**	0.32940	**0.01507**	2.50740	**0.11514**
sg13g2_ebufn_4	0.01860	**0.00649**	0.32940	**0.01874**	2.50740	**0.13207**
sg13g2_ebufn_8	0.01860	**0.01164**	0.32940	**0.03645**	2.50740	**0.26117**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00479**	0.32940	**0.01661**	2.50740	**0.11414**
sg13g2_ebufn_4	0.01860	**0.00767**	0.32940	**0.02036**	2.50740	**0.13116**
sg13g2_ebufn_8	0.01860	**0.01435**	0.32940	**0.04009**	2.50740	**0.26181**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**-0.00116**	0.32940	**0.00942**	2.50740	**0.10790**
sg13g2_ebufn_4	0.01860	**-0.00272**	0.32940	**0.00762**	2.50740	**0.11837**
sg13g2_ebufn_8	0.01860	**-0.00646**	0.32940	**0.00169**	2.50740	**0.10818**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.02567**	0.32940	**0.03744**	2.50740	**0.13307**
sg13g2_ebufn_4	0.01860	**0.05017**	0.32940	**0.06278**	2.50740	**0.17088**
sg13g2_ebufn_8	0.01860	**0.09776**	0.32940	**0.10918**	2.50740	**0.21454**

EINVNx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A	TE_B	Z
0	0	1
1	0	0
-	1	HiZ

Footprint

Cell Name	Area
sg13g2_einvn_2	16.32960
sg13g2_einvn_4	23.58720
sg13g2_einvn_8	39.91680

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_2	0.00437	0.00548	0.60000
sg13g2_einvn_4	0.00853	0.01022	1.20000
sg13g2_einvn_8	0.01687	0.01738	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_2	2203.90000	2724.86000	3245.83000
sg13g2_einvn_4	4387.32000	5429.26000	6471.20000
sg13g2_einvn_8	8566.03000	10649.90000	12733.80000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00608	**0.01468**	0.32940	0.13468	**0.29752**	2.50740	0.60508	**1.57779**
	TE_B->Z (RR)	0.01860	0.00608	**0.02937**	0.32940	0.13468	**0.06963**	2.50740	0.60508	**0.13920**
	TE_B->Z (FR)	0.01860	0.00608	**0.01753**	0.32940	0.13468	**0.25441**	2.50740	0.60508	**1.23790**
sg13g2_einvn_4	A->Z (FR)	0.01860	0.01095	**0.01357**	0.32940	0.26915	**0.29796**	2.50740	1.20995	**1.58022**
	TE_B->Z (RR)	0.01860	0.01095	**0.03077**	0.32940	0.26915	**0.07399**	2.50740	1.20995	**0.14730**
	TE_B->Z (FR)	0.01860	0.01095	**0.01712**	0.32940	0.26915	**0.25462**	2.50740	1.20995	**1.23700**
sg13g2_einvn_8	A->Z (FR)	0.01860	0.02082	**0.01315**	0.32940	0.53822	**0.29946**	2.50740	2.41982	**1.58746**
	TE_B->Z (RR)	0.01860	0.02082	**0.04085**	0.32940	0.53822	**0.10046**	2.50740	2.41982	**0.20753**
	TE_B->Z (FR)	0.01860	0.02082	**0.01813**	0.32940	0.53822	**0.25688**	2.50740	2.41982	**1.24181**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00843	**0.01347**	0.32940	0.13703	**0.26246**	2.50740	0.60743	**1.39093**
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01556	**0.01247**	0.32940	0.27376	**0.26230**	2.50740	1.21456	**1.39128**
sg13g2_einvn_8	A->Z (RF)	0.01860	0.02998	**0.01213**	0.32940	0.54738	**0.26421**	2.50740	2.42898	**1.40093**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00608	**0.00531**	0.32940	0.13468	**0.01364**	2.50740	0.60508	**0.08664**
	TE_B	0.01860	0.00608	**0.01687**	0.32940	0.13468	**0.01618**	2.50740	0.60508	**0.01599**
sg13g2_einvn_4	A	0.01860	0.01095	**0.01067**	0.32940	0.26915	**0.02734**	2.50740	1.20995	**0.17292**
	TE_B	0.01860	0.01095	**0.03416**	0.32940	0.26915	**0.03260**	2.50740	1.20995	**0.03283**
sg13g2_einvn_8	A	0.01860	0.02082	**0.02134**	0.32940	0.53822	**0.05510**	2.50740	2.41982	**0.34310**
	TE_B	0.01860	0.02082	**0.07052**	0.32940	0.53822	**0.06720**	2.50740	2.41982	**0.06726**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00843	**0.00514**	0.32940	0.13703	**0.01290**	2.50740	0.60743	**0.07703**
sg13g2_einvn_4	A	0.01860	0.01556	**0.00984**	0.32940	0.27376	**0.02521**	2.50740	1.21456	**0.15388**
sg13g2_einvn_8	A	0.01860	0.02998	**0.01929**	0.32940	0.54738	**0.05048**	2.50740	2.42898	**0.30675**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_4	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_8	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_4	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_8	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**-0.01278**	0.32940	**-0.01897**	2.50740	**0.04338**
sg13g2_einvn_4	0.01860	**-0.02536**	0.32940	**-0.03851**	2.50740	**0.07058**
sg13g2_einvn_8	0.01860	**-0.04498**	0.32940	**-0.05811**	2.50740	**0.00735**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**0.01278**	0.32940	**0.02008**	2.50740	**0.08174**
sg13g2_einvn_4	0.01860	**0.02536**	0.32940	**0.03851**	2.50740	**0.14872**
sg13g2_einvn_8	0.01860	**0.04498**	0.32940	**0.05811**	2.50740	**0.16695**

FILLx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_2	3.62880
sg13g2_fill_4	7.25760
sg13g2_fill_8	14.51520

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_fill_1	0.00000	0.00000	0.00000
sg13g2_fill_2	0.00000	0.00000	0.00000
sg13g2_fill_4	0.00000	0.00000	0.00000
sg13g2_fill_8	0.00000	0.00000	0.00000

INVx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
sg13g2_inv_1	5.44320
sg13g2_inv_16	34.47360
sg13g2_inv_2	7.25760
sg13g2_inv_4	10.88640
sg13g2_inv_8	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_1	0.00317	0.30000
sg13g2_inv_16	0.04778	4.80000
sg13g2_inv_2	0.00628	0.60000
sg13g2_inv_4	0.01243	1.20000
sg13g2_inv_8	0.02487	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_1	208.57800	469.12100	729.66500
sg13g2_inv_16	3337.25000	7505.02000	11672.80000
sg13g2_inv_2	417.16900	938.15000	1459.13000
sg13g2_inv_4	834.31400	1876.25000	2918.19000
sg13g2_inv_8	1668.63000	3752.55000	5836.48000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.01113**	0.32940	0.06480	**0.20293**	2.50740	0.30000	**1.10947**
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.01177**	0.32940	1.03680	**0.20754**	2.50740	4.80000	**1.11972**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.00954**	0.32940	0.12960	**0.20266**	2.50740	0.60000	**1.10943**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.00876**	0.32940	0.25920	**0.20311**	2.50740	1.20000	**1.11221**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.00860**	0.32940	0.51840	**0.20344**	2.50740	2.40000	**1.11224**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01078**	0.32940	0.06480	**0.19127**	2.50740	0.30000	**1.03737**
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.01180**	0.32940	1.03680	**0.19630**	2.50740	4.80000	**1.04786**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.00929**	0.32940	0.12960	**0.19106**	2.50740	0.60000	**1.03708**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.00859**	0.32940	0.25920	**0.19247**	2.50740	1.20000	**1.04427**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.00846**	0.32940	0.51840	**0.19265**	2.50740	2.40000	**1.04517**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00302**	0.32940	0.06480	**0.00911**	2.50740	0.30000	**0.06302**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.04839**	0.32940	1.03680	**0.14601**	2.50740	4.80000	**1.00119**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00559**	0.32940	0.12960	**0.01778**	2.50740	0.60000	**0.12563**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.01123**	0.32940	0.25920	**0.03543**	2.50740	1.20000	**0.24930**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.02255**	0.32940	0.51840	**0.07119**	2.50740	2.40000	**0.49655**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00286**	0.32940	0.06480	**0.00814**	2.50740	0.30000	**0.05624**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.04086**	0.32940	1.03680	**0.12441**	2.50740	4.80000	**0.88113**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00474**	0.32940	0.12960	**0.01571**	2.50740	0.60000	**0.11203**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00920**	0.32940	0.25920	**0.03066**	2.50740	1.20000	**0.21890**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01841**	0.32940	0.51840	**0.06100**	2.50740	2.40000	**0.44433**

LGCP

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
CLK	GATE	GCLK
0	x	0
1	x	GCLK

Footprint

Cell Name	Area
sg13g2_lgcp_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CLK	GATE	GCLK
sg13g2_lgcp_1	0.00561	0.00264	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	3343.12000	3484.21000	3697.54000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.03673**	0.32940	0.06480	**0.16317**	2.50740	0.30000	**0.58290**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.03179**	0.32940	0.06480	**0.15636**	2.50740	0.30000	**0.55780**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.10864**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.04776**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01585**	1.26300	1.26300	**-0.12337**	2.50740	2.50740	**-0.22279**
	setup	**CLK (R)**	0.01860	0.01860	**0.03866**	1.26300	1.26300	**0.15555**	2.50740	2.50740	**0.26050**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.00637**	1.26300	1.26300	**-0.00354**	2.50740	2.50740	**0.00263**
	setup	**CLK (R)**	0.01860	0.01860	**0.02068**	1.26300	1.26300	**0.03685**	2.50740	2.50740	**0.04601**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK**	0.01860	0.00100	**0.02238**	0.32940	0.06480	**0.02991**	2.50740	0.30000	**0.11067**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK**	0.01860	0.00100	**0.01448**	0.32940	0.06480	**0.02452**	2.50740	0.30000	**0.10232**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.00843**	0.32940	**0.01986**	2.50740	**0.12150**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.01273**	0.32940	**0.02481**	2.50740	**0.12665**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.03666**	0.32940	**0.04543**	2.50740	**0.13446**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.03949**	0.32940	**0.06282**	2.50740	**0.14965**

Passive power(pJ) for GATE rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.03666**	0.32940	**0.04543**	2.50740	**0.13446**

Passive power(pJ) for GATE falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.03949**	0.32940	**0.06282**	2.50740	**0.14965**

MUX2x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
A0	A1	S	X
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
sg13g2_mux2_1	18.14400
sg13g2_mux2_2	19.95840

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_1	0.00314	0.00324	0.00585	0.30000
sg13g2_mux2_2	0.00311	0.00321	0.00584	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	1907.10000	2302.07000	2933.21000
sg13g2_mux2_2	2161.16000	2771.10000	3144.87000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.03774**	0.32940	0.06480	**0.17740**	2.50740	0.30000	**0.58653**
	A1->X (RR)	0.01860	0.00100	**0.03800**	0.32940	0.06480	**0.17901**	2.50740	0.30000	**0.58962**
	S->X (-R)	0.01860	0.00100	**0.04066**	0.32940	0.06480	**0.17110**	2.50740	0.30000	**0.57657**
sg13g2_mux2_2	A0->X (RR)	0.01860	0.00100	**0.04415**	0.32940	0.12960	**0.19843**	2.50740	0.60000	**0.63022**
	A1->X (RR)	0.01860	0.00100	**0.04434**	0.32940	0.12960	**0.19964**	2.50740	0.60000	**0.63236**
	S->X (-R)	0.01860	0.00100	**0.04694**	0.32940	0.12960	**0.18904**	2.50740	0.60000	**0.61318**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.04634**	0.32940	0.06480	**0.19177**	2.50740	0.30000	**0.65934**
	A1->X (FF)	0.01860	0.00100	**0.04615**	0.32940	0.06480	**0.19177**	2.50740	0.30000	**0.66370**
	S->X (-F)	0.01860	0.00100	**0.05101**	0.32940	0.06480	**0.17845**	2.50740	0.30000	**0.61956**
sg13g2_mux2_2	A0->X (FF)	0.01860	0.00100	**0.05661**	0.32940	0.12960	**0.21738**	2.50740	0.60000	**0.70525**
	A1->X (FF)	0.01860	0.00100	**0.05638**	0.32940	0.12960	**0.21751**	2.50740	0.60000	**0.70907**
	S->X (-F)	0.01860	0.00100	**0.06103**	0.32940	0.12960	**0.20085**	2.50740	0.60000	**0.65798**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.04066**	0.32940	0.06480	**0.17110**	2.50740	0.30000	**0.57657**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.05705**	0.32940	0.06480	**0.18343**	2.50740	0.30000	**0.56292**
sg13g2_mux2_2	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.04694**	0.32940	0.12960	**0.18904**	2.50740	0.60000	**0.61318**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.06330**	0.32940	0.12960	**0.19478**	2.50740	0.60000	**0.57745**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.05101**	0.32940	0.06480	**0.17845**	2.50740	0.30000	**0.61956**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.06607**	0.32940	0.06480	**0.18588**	2.50740	0.30000	**0.52096**
sg13g2_mux2_2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.06103**	0.32940	0.12960	**0.20085**	2.50740	0.60000	**0.65798**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.07609**	0.32940	0.12960	**0.20255**	2.50740	0.60000	**0.53929**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01747**	0.32940	0.06480	**0.02600**	2.50740	0.30000	**0.10617**
	A1	0.01860	0.00100	**0.01767**	0.32940	0.06480	**0.02629**	2.50740	0.30000	**0.10597**
	S	0.01860	0.00100	**0.02298**	0.32940	0.06480	**0.03095**	2.50740	0.30000	**0.11501**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.02717**	0.32940	0.12960	**0.03456**	2.50740	0.60000	**0.11491**
	A1	0.01860	0.00100	**0.02746**	0.32940	0.12960	**0.03485**	2.50740	0.60000	**0.11512**
	S	0.01860	0.00100	**0.03236**	0.32940	0.12960	**0.03917**	2.50740	0.60000	**0.12311**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01780**	0.32940	0.06480	**0.02669**	2.50740	0.30000	**0.10352**
	A1	0.01860	0.00100	**0.01766**	0.32940	0.06480	**0.02652**	2.50740	0.30000	**0.10535**
	S	0.01860	0.00100	**0.01895**	0.32940	0.06480	**0.02696**	2.50740	0.30000	**0.10949**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.02921**	0.32940	0.12960	**0.03494**	2.50740	0.60000	**0.11187**
	A1	0.01860	0.00100	**0.02904**	0.32940	0.12960	**0.03484**	2.50740	0.60000	**0.11322**
	S	0.01860	0.00100	**0.02978**	0.32940	0.12960	**0.03492**	2.50740	0.60000	**0.11729**

Internal switching power(pJ) to X rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01953**	0.32940	0.06480	**0.01985**	2.50740	0.30000	**0.02206**
	S	(!A0 * A1)	0.01860	0.00100	**0.02298**	0.32940	0.06480	**0.03095**	2.50740	0.30000	**0.11501**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.02897**	0.32940	0.12960	**0.02851**	2.50740	0.60000	**0.02954**
	S	(!A0 * A1)	0.01860	0.00100	**0.03236**	0.32940	0.12960	**0.03917**	2.50740	0.60000	**0.12311**

Internal switching power(pJ) to X falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.02396**	0.32940	0.06480	**0.02437**	2.50740	0.30000	**0.02744**
	S	(!A0 * A1)	0.01860	0.00100	**0.01895**	0.32940	0.06480	**0.02696**	2.50740	0.30000	**0.10949**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.03488**	0.32940	0.12960	**0.03290**	2.50740	0.60000	**0.03444**
	S	(!A0 * A1)	0.01860	0.00100	**0.02978**	0.32940	0.12960	**0.03492**	2.50740	0.60000	**0.11729**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00267**	0.32940	**0.01169**	2.50740	**0.09428**
sg13g2_mux2_2	0.01860	**0.00267**	0.32940	**0.01168**	2.50740	**0.09447**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00677**	0.32940	**0.01617**	2.50740	**0.09773**
sg13g2_mux2_2	0.01860	**0.00678**	0.32940	**0.01617**	2.50740	**0.09774**

Passive power(pJ) for S rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	(A0 * A1)	0.01860	**0.00267**	0.32940	**0.01169**	2.50740	**0.09428**
	(!A0 * !A1)	0.01860	**0.00209**	0.32940	**0.01120**	2.50740	**0.09335**
sg13g2_mux2_2	(A0 * A1)	0.01860	**0.00267**	0.32940	**0.01168**	2.50740	**0.09447**
	(!A0 * !A1)	0.01860	**0.00209**	0.32940	**0.01118**	2.50740	**0.09321**

Passive power(pJ) for S falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	**(A0 * A1)**	0.01860	**0.00648**	0.32940	**0.01578**	2.50740	**0.09635**
	(!A0 * !A1)	0.01860	**0.00677**	0.32940	**0.01617**	2.50740	**0.09773**
sg13g2_mux2_2	**(A0 * A1)**	0.01860	**0.00648**	0.32940	**0.01579**	2.50740	**0.09636**
	(!A0 * !A1)	0.01860	**0.00678**	0.32940	**0.01617**	2.50740	**0.09774**

MUX4

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT						OUTPUT
A0	A1	A2	A3	S0	S1	X
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
sg13g2_mux4_1	38.10240

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	A3	S0	S1	X
sg13g2_mux4_1	0.00320	0.00318	0.00320	0.00326	0.00917	0.00556	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	2333.77000	3933.00000	5424.72000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.06542**	0.32940	0.06480	**0.21495**	2.50740	0.30000	**0.68607**
	A1->X (RR)	0.01860	0.00100	**0.06412**	0.32940	0.06480	**0.21419**	2.50740	0.30000	**0.68451**
	A2->X (RR)	0.01860	0.00100	**0.06711**	0.32940	0.06480	**0.21969**	2.50740	0.30000	**0.69532**
	A3->X (RR)	0.01860	0.00100	**0.06625**	0.32940	0.06480	**0.21904**	2.50740	0.30000	**0.69474**
	S0->X (-R)	0.01860	0.00100	**0.05886**	0.32940	0.06480	**0.22122**	2.50740	0.30000	**0.69882**
	S1->X (-R)	0.01860	0.00100	**0.03571**	0.32940	0.06480	**0.17806**	2.50740	0.30000	**0.61203**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.07177**	0.32940	0.06480	**0.21034**	2.50740	0.30000	**0.63638**
	A1->X (FF)	0.01860	0.00100	**0.07260**	0.32940	0.06480	**0.21094**	2.50740	0.30000	**0.63674**
	A2->X (FF)	0.01860	0.00100	**0.07552**	0.32940	0.06480	**0.21669**	2.50740	0.30000	**0.64679**
	A3->X (FF)	0.01860	0.00100	**0.07621**	0.32940	0.06480	**0.21657**	2.50740	0.30000	**0.64632**
	S0->X (-F)	0.01860	0.00100	**0.06638**	0.32940	0.06480	**0.22192**	2.50740	0.30000	**0.67772**
	S1->X (-F)	0.01860	0.00100	**0.04035**	0.32940	0.06480	**0.17671**	2.50740	0.30000	**0.61323**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.05886**	0.32940	0.06480	**0.22122**	2.50740	0.30000	**0.69882**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.05589**	0.32940	0.06480	**0.21380**	2.50740	0.30000	**0.68434**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.08374**	0.32940	0.06480	**0.22908**	2.50740	0.30000	**0.64072**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.08179**	0.32940	0.06480	**0.22519**	2.50740	0.30000	**0.63584**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.03574**	0.32940	0.06480	**0.17810**	2.50740	0.30000	**0.61137**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.03571**	0.32940	0.06480	**0.17806**	2.50740	0.30000	**0.61203**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.04619**	0.32940	0.06480	**0.18006**	2.50740	0.30000	**0.57540**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.04611**	0.32940	0.06480	**0.17982**	2.50740	0.30000	**0.57541**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.06638**	0.32940	0.06480	**0.22192**	2.50740	0.30000	**0.67772**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.06104**	0.32940	0.06480	**0.21305**	2.50740	0.30000	**0.66233**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.08970**	0.32940	0.06480	**0.23064**	2.50740	0.30000	**0.60877**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.08538**	0.32940	0.06480	**0.22507**	2.50740	0.30000	**0.60110**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.04035**	0.32940	0.06480	**0.17671**	2.50740	0.30000	**0.61323**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.04027**	0.32940	0.06480	**0.17656**	2.50740	0.30000	**0.61284**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.04923**	0.32940	0.06480	**0.18116**	2.50740	0.30000	**0.54409**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.04933**	0.32940	0.06480	**0.18102**	2.50740	0.30000	**0.54367**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0	0.01860	0.00100	**0.03673**	0.32940	0.06480	**0.04215**	2.50740	0.30000	**0.11987**
	A1	0.01860	0.00100	**0.03704**	0.32940	0.06480	**0.04245**	2.50740	0.30000	**0.12017**
	A2	0.01860	0.00100	**0.02479**	0.32940	0.06480	**0.03021**	2.50740	0.30000	**0.10759**
	A3	0.01860	0.00100	**0.03738**	0.32940	0.06480	**0.04268**	2.50740	0.30000	**0.12003**
	S0	0.01860	0.00100	**0.02316**	0.32940	0.06480	**0.02964**	2.50740	0.30000	**0.10303**
	S1	0.01860	0.00100	**0.01717**	0.32940	0.06480	**0.02201**	2.50740	0.30000	**0.06969**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0	0.01860	0.00100	**0.02739**	0.32940	0.06480	**0.03249**	2.50740	0.30000	**0.10926**
	A1	0.01860	0.00100	**0.02534**	0.32940	0.06480	**0.03043**	2.50740	0.30000	**0.10735**
	A2	0.01860	0.00100	**0.03867**	0.32940	0.06480	**0.04358**	2.50740	0.30000	**0.11998**
	A3	0.01860	0.00100	**0.02937**	0.32940	0.06480	**0.03432**	2.50740	0.30000	**0.11043**
	S0	0.01860	0.00100	**0.02220**	0.32940	0.06480	**0.02896**	2.50740	0.30000	**0.10089**
	S1	0.01860	0.00100	**0.01928**	0.32940	0.06480	**0.02341**	2.50740	0.30000	**0.07269**

Internal switching power(pJ) to X rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.03046**	0.32940	0.06480	**0.02002**	2.50740	0.30000	**0.00000**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.03035**	0.32940	0.06480	**0.01994**	2.50740	0.30000	**0.00000**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.02324**	0.32940	0.06480	**0.03007**	2.50740	0.30000	**0.10310**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.02316**	0.32940	0.06480	**0.02964**	2.50740	0.30000	**0.10303**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01850**	0.32940	0.06480	**0.02341**	2.50740	0.30000	**0.07244**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01717**	0.32940	0.06480	**0.02201**	2.50740	0.30000	**0.06969**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01160**	0.32940	0.06480	**0.01836**	2.50740	0.30000	**0.07877**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01158**	0.32940	0.06480	**0.01833**	2.50740	0.30000	**0.07957**

Internal switching power(pJ) to X falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.04819**	0.32940	0.06480	**0.03926**	2.50740	0.30000	**0.00000**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.04829**	0.32940	0.06480	**0.03976**	2.50740	0.30000	**0.00000**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.02220**	0.32940	0.06480	**0.02896**	2.50740	0.30000	**0.10089**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.02275**	0.32940	0.06480	**0.02966**	2.50740	0.30000	**0.10207**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01928**	0.32940	0.06480	**0.02341**	2.50740	0.30000	**0.07269**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.02064**	0.32940	0.06480	**0.02463**	2.50740	0.30000	**0.07327**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01126**	0.32940	0.06480	**0.01842**	2.50740	0.30000	**0.07651**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01263**	0.32940	0.06480	**0.01979**	2.50740	0.30000	**0.07787**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.01006**	0.32940	**0.02998**	2.50740	**0.20439**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.01804**	0.32940	**0.03868**	2.50740	**0.20925**

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00700**	0.32940	**0.02683**	2.50740	**0.20104**
	(A0 * A1 * !S1)	0.01860	**0.00796**	0.32940	**0.02716**	2.50740	**0.20176**
	(!A2 * !A3 * S1)	0.01860	**0.01006**	0.32940	**0.02998**	2.50740	**0.20439**
	(!A0 * !A1 * !S1)	0.01860	**0.01157**	0.32940	**0.03094**	2.50740	**0.20488**

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.01909**	0.32940	**0.03993**	2.50740	**0.21062**
	(A0 * A1 * !S1)	0.01860	**0.02221**	0.32940	**0.04277**	2.50740	**0.21355**
	(!A2 * !A3 * S1)	0.01860	**0.01804**	0.32940	**0.03868**	2.50740	**0.20925**
	(!A0 * !A1 * !S1)	0.01860	**0.01233**	0.32940	**0.03277**	2.50740	**0.20471**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00601**	0.32940	**0.01790**	2.50740	**0.11723**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00711**	0.32940	**0.01914**	2.50740	**0.11849**

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00326**	0.32940	**0.01503**	2.50740	**0.11406**
	(A0 * A2 * !S0)	0.01860	**0.00326**	0.32940	**0.01500**	2.50740	**0.11400**
	(!A1 * !A3 * S0)	0.01860	**0.00601**	0.32940	**0.01788**	2.50740	**0.11792**
	(!A0 * !A2 * !S0)	0.01860	**0.00601**	0.32940	**0.01790**	2.50740	**0.11723**

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00787**	0.32940	**0.02018**	2.50740	**0.11962**
	(A0 * A2 * !S0)	0.01860	**0.00785**	0.32940	**0.02017**	2.50740	**0.11952**
	(!A1 * !A3 * S0)	0.01860	**0.00710**	0.32940	**0.01918**	2.50740	**0.11729**
	(!A0 * !A2 * !S0)	0.01860	**0.00711**	0.32940	**0.01914**	2.50740	**0.11849**

NAND2Bx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A_N	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
sg13g2_nand2b_1	9.07200
sg13g2_nand2b_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00256	0.00338	0.30000
sg13g2_nand2b_2	0.00249	0.00619	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	357.05500	1055.55000	1612.73000
sg13g2_nand2b_2	909.38600	1748.12000	2981.51000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.02767**	0.32940	0.06480	**0.15615**	2.50740	0.30000	**0.58250**
	B->Y (FR)	0.01860	0.00100	**0.01462**	0.32940	0.06480	**0.20656**	2.50740	0.30000	**1.10596**
sg13g2_nand2b_2	A_N->Y (RR)	0.01860	0.00100	**0.03635**	0.32940	0.12960	**0.17812**	2.50740	0.60000	**0.62269**
	B->Y (FR)	0.01860	0.00100	**0.01100**	0.32940	0.12960	**0.20265**	2.50740	0.60000	**1.09291**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.03237**	0.32940	0.06480	**0.20114**	2.50740	0.30000	**0.78134**
	B->Y (RF)	0.01860	0.00100	**0.01899**	0.32940	0.06480	**0.23214**	2.50740	0.30000	**1.20078**
sg13g2_nand2b_2	A_N->Y (FF)	0.01860	0.00100	**0.04183**	0.32940	0.12960	**0.23264**	2.50740	0.60000	**0.84288**
	B->Y (RF)	0.01860	0.00100	**0.01505**	0.32940	0.12960	**0.26953**	2.50740	0.60000	**1.43613**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00555**	0.32940	0.06480	**0.00586**	2.50740	0.30000	**0.00381**
	B	0.01860	0.00100	**0.00373**	0.32940	0.06480	**0.00880**	2.50740	0.30000	**0.05702**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.00962**	0.32940	0.12960	**0.01059**	2.50740	0.60000	**0.00976**
	B	0.01860	0.00100	**0.00594**	0.32940	0.12960	**0.01589**	2.50740	0.60000	**0.10391**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00843**	0.32940	0.06480	**0.00877**	2.50740	0.30000	**0.00584**
	B	0.01860	0.00100	**0.00772**	0.32940	0.06480	**0.01161**	2.50740	0.30000	**0.05301**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.01633**	0.32940	0.12960	**0.01788**	2.50740	0.60000	**0.01776**
	B	0.01860	0.00100	**0.00792**	0.32940	0.12960	**0.01650**	2.50740	0.60000	**0.09447**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00599**	0.32940	**0.01557**	2.50740	**0.09975**
sg13g2_nand2b_2	0.01860	**0.01074**	0.32940	**0.01862**	2.50740	**0.10064**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00372**	0.32940	**0.01339**	2.50740	**0.09542**
sg13g2_nand2b_2	0.01860	**0.01165**	0.32940	**0.02020**	2.50740	**0.10025**

Passive power(pJ) for A_N rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00599**	0.32940	**0.01557**	2.50740	**0.09975**
sg13g2_nand2b_2	**!B**	0.01860	**0.01074**	0.32940	**0.01862**	2.50740	**0.10064**

Passive power(pJ) for A_N falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00372**	0.32940	**0.01339**	2.50740	**0.09542**
sg13g2_nand2b_2	**!B**	0.01860	**0.01165**	0.32940	**0.02020**	2.50740	**0.10025**

NAND2x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
sg13g2_nand2_1	7.25760
sg13g2_nand2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_1	0.00317	0.00333	0.30000
sg13g2_nand2_2	0.00617	0.00641	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	203.38100	727.05000	1459.05000
sg13g2_nand2_2	406.14500	1419.69000	2827.91000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.01244**	0.32940	0.06480	**0.20295**	2.50740	0.30000	**1.09372**
	B->Y (FR)	0.01860	0.00100	**0.01491**	0.32940	0.06480	**0.20615**	2.50740	0.30000	**1.10246**
sg13g2_nand2_2	A->Y (FR)	0.01860	0.00100	**0.01112**	0.32940	0.12960	**0.20302**	2.50740	0.60000	**1.09385**
	B->Y (FR)	0.01860	0.00100	**0.01382**	0.32940	0.12960	**0.20641**	2.50740	0.60000	**1.10287**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.01647**	0.32940	0.06480	**0.26134**	2.50740	0.30000	**1.39330**
	B->Y (RF)	0.01860	0.00100	**0.01810**	0.32940	0.06480	**0.23073**	2.50740	0.30000	**1.19694**
sg13g2_nand2_2	A->Y (RF)	0.01860	0.00100	**0.01520**	0.32940	0.12960	**0.26943**	2.50740	0.60000	**1.43465**
	B->Y (RF)	0.01860	0.00100	**0.01736**	0.32940	0.12960	**0.23845**	2.50740	0.60000	**1.23463**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00324**	0.32940	0.06480	**0.00840**	2.50740	0.30000	**0.05360**
	B	0.01860	0.00100	**0.00350**	0.32940	0.06480	**0.00861**	2.50740	0.30000	**0.05637**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00601**	0.32940	0.12960	**0.01594**	2.50740	0.60000	**0.10339**
	B	0.01860	0.00100	**0.00712**	0.32940	0.12960	**0.01694**	2.50740	0.60000	**0.10906**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00417**	0.32940	0.06480	**0.00852**	2.50740	0.30000	**0.04854**
	B	0.01860	0.00100	**0.00765**	0.32940	0.06480	**0.01157**	2.50740	0.30000	**0.05356**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00793**	0.32940	0.12960	**0.01628**	2.50740	0.60000	**0.09382**
	B	0.01860	0.00100	**0.01458**	0.32940	0.12960	**0.02212**	2.50740	0.60000	**0.10205**

NAND3B

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
A_N	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
sg13g2_nand3b_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A_N	B	C	Y
sg13g2_nand3b_1	0.00254	0.00331	0.00335	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	360.82300	1221.35000	2342.13000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.02900**	0.32940	0.06480	**0.15652**	2.50740	0.30000	**0.58049**
	B->Y (FR)	0.01860	0.00100	**0.01632**	0.32940	0.06480	**0.20731**	2.50740	0.30000	**1.09419**
	C->Y (FR)	0.01860	0.00100	**0.01771**	0.32940	0.06480	**0.20978**	2.50740	0.30000	**1.09978**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.03859**	0.32940	0.06480	**0.26204**	2.50740	0.30000	**1.04621**
	B->Y (RF)	0.01860	0.00100	**0.02822**	0.32940	0.06480	**0.30468**	2.50740	0.30000	**1.54775**
	C->Y (RF)	0.01860	0.00100	**0.02985**	0.32940	0.06480	**0.27689**	2.50740	0.30000	**1.34616**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00586**	0.32940	0.06480	**0.00604**	2.50740	0.30000	**0.00394**
	B	0.01860	0.00100	**0.00414**	0.32940	0.06480	**0.00845**	2.50740	0.30000	**0.04934**
	C	0.01860	0.00100	**0.00441**	0.32940	0.06480	**0.00862**	2.50740	0.30000	**0.05198**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.01065**	0.32940	0.06480	**0.01087**	2.50740	0.30000	**0.00888**
	B	0.01860	0.00100	**0.00987**	0.32940	0.06480	**0.01276**	2.50740	0.30000	**0.04802**
	C	0.01860	0.00100	**0.01307**	0.32940	0.06480	**0.01576**	2.50740	0.30000	**0.05514**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00597**	0.32940	**0.01565**	2.50740	**0.09980**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00371**	0.32940	**0.01339**	2.50740	**0.09541**

Passive power(pJ) for A_N rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00597**	0.32940	**0.01565**	2.50740	**0.09980**

Passive power(pJ) for A_N falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00371**	0.32940	**0.01339**	2.50740	**0.09541**

NAND3

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
sg13g2_nand3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nand3_1	0.00317	0.00335	0.00334	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	207.22000	892.91400	2188.55000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (FR)	0.01860	0.00100	**0.01417**	0.32940	0.06480	**0.20389**	2.50740	0.30000	**1.08613**
	B->Y (FR)	0.01860	0.00100	**0.01660**	0.32940	0.06480	**0.20717**	2.50740	0.30000	**1.09401**
	C->Y (FR)	0.01860	0.00100	**0.01778**	0.32940	0.06480	**0.20967**	2.50740	0.30000	**1.09976**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (RF)	0.01860	0.00100	**0.02317**	0.32940	0.06480	**0.32603**	2.50740	0.30000	**1.70651**
	B->Y (RF)	0.01860	0.00100	**0.02717**	0.32940	0.06480	**0.30332**	2.50740	0.30000	**1.54537**
	C->Y (RF)	0.01860	0.00100	**0.02861**	0.32940	0.06480	**0.27518**	2.50740	0.30000	**1.34473**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00356**	0.32940	0.06480	**0.00793**	2.50740	0.30000	**0.04695**
	B	0.01860	0.00100	**0.00382**	0.32940	0.06480	**0.00813**	2.50740	0.30000	**0.04922**
	C	0.01860	0.00100	**0.00416**	0.32940	0.06480	**0.00840**	2.50740	0.30000	**0.05184**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00632**	0.32940	0.06480	**0.00984**	2.50740	0.30000	**0.04513**
	B	0.01860	0.00100	**0.00991**	0.32940	0.06480	**0.01283**	2.50740	0.30000	**0.04842**
	C	0.01860	0.00100	**0.01304**	0.32940	0.06480	**0.01589**	2.50740	0.30000	**0.05570**

NAND4

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
sg13g2_nand4_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nand4_1	0.00316	0.00335	0.00338	0.00337	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	211.54200	1017.94000	2918.23000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (FR)	0.01860	0.00100	**0.01518**	0.32940	0.06480	**0.20449**	2.50740	0.30000	**1.07915**
	B->Y (FR)	0.01860	0.00100	**0.01762**	0.32940	0.06480	**0.20758**	2.50740	0.30000	**1.08479**
	C->Y (FR)	0.01860	0.00100	**0.01894**	0.32940	0.06480	**0.21052**	2.50740	0.30000	**1.09265**
	D->Y (FR)	0.01860	0.00100	**0.01943**	0.32940	0.06480	**0.21280**	2.50740	0.30000	**1.09834**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (RF)	0.01860	0.00100	**0.02903**	0.32940	0.06480	**0.38766**	2.50740	0.30000	**1.99952**
	B->Y (RF)	0.01860	0.00100	**0.03551**	0.32940	0.06480	**0.37043**	2.50740	0.30000	**1.86000**
	C->Y (RF)	0.01860	0.00100	**0.03937**	0.32940	0.06480	**0.34868**	2.50740	0.30000	**1.68363**
	D->Y (RF)	0.01860	0.00100	**0.04090**	0.32940	0.06480	**0.32961**	2.50740	0.30000	**1.52465**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00373**	0.32940	0.06480	**0.00766**	2.50740	0.30000	**0.04240**
	B	0.01860	0.00100	**0.00404**	0.32940	0.06480	**0.00772**	2.50740	0.30000	**0.04375**
	C	0.01860	0.00100	**0.00441**	0.32940	0.06480	**0.00801**	2.50740	0.30000	**0.04588**
	D	0.01860	0.00100	**0.00471**	0.32940	0.06480	**0.00832**	2.50740	0.30000	**0.04810**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00771**	0.32940	0.06480	**0.01078**	2.50740	0.30000	**0.04210**
	B	0.01860	0.00100	**0.01136**	0.32940	0.06480	**0.01364**	2.50740	0.30000	**0.04482**
	C	0.01860	0.00100	**0.01458**	0.32940	0.06480	**0.01664**	2.50740	0.30000	**0.05027**
	D	0.01860	0.00100	**0.01769**	0.32940	0.06480	**0.01962**	2.50740	0.30000	**0.05687**

NOR2Bx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A	B_N	Y
x	0	0
0	1	1
1	1	0

Footprint

Cell Name	Area
sg13g2_nor2b_1	9.07200
sg13g2_nor2b_2	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B_N	Y
sg13g2_nor2b_1	0.00322	0.00258	0.30000
sg13g2_nor2b_2	0.00625	0.00303	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_1	862.05400	1172.43000	1492.48000
sg13g2_nor2b_2	1443.41000	2040.13000	2771.74000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.01842**	0.32940	0.06480	**0.29923**	2.50740	0.30000	**1.59242**
	B_N->Y (RR)	0.01860	0.00100	**0.03655**	0.32940	0.06480	**0.24531**	2.50740	0.30000	**0.94673**
sg13g2_nor2b_2	A->Y (FR)	0.01860	0.00100	**0.01615**	0.32940	0.12960	**0.29840**	2.50740	0.60000	**1.58767**
	B_N->Y (RR)	0.01860	0.00100	**0.04037**	0.32940	0.12960	**0.26118**	2.50740	0.60000	**0.98568**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.01208**	0.32940	0.06480	**0.19151**	2.50740	0.30000	**1.02262**
	B_N->Y (FF)	0.01860	0.00100	**0.03072**	0.32940	0.06480	**0.14601**	2.50740	0.30000	**0.52342**
sg13g2_nor2b_2	A->Y (RF)	0.01860	0.00100	**0.01111**	0.32940	0.12960	**0.19720**	2.50740	0.60000	**1.05606**
	B_N->Y (FF)	0.01860	0.00100	**0.03614**	0.32940	0.12960	**0.16450**	2.50740	0.60000	**0.55842**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00390**	0.32940	0.06480	**0.00858**	2.50740	0.30000	**0.05189**
	B_N	0.01860	0.00100	**0.01044**	0.32940	0.06480	**0.01067**	2.50740	0.30000	**0.00861**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00790**	0.32940	0.12960	**0.01727**	2.50740	0.60000	**0.10128**
	B_N	0.01860	0.00100	**0.01887**	0.32940	0.12960	**0.01964**	2.50740	0.60000	**0.01842**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00346**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.04656**
	B_N	0.01860	0.00100	**0.00479**	0.32940	0.06480	**0.00494**	2.50740	0.30000	**0.00119**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00561**	0.32940	0.12960	**0.01436**	2.50740	0.60000	**0.08829**
	B_N	0.01860	0.00100	**0.00878**	0.32940	0.12960	**0.00955**	2.50740	0.60000	**0.00539**

Passive power(pJ) for B_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00607**	0.32940	**0.01529**	2.50740	**0.09879**
sg13g2_nor2b_2	0.01860	**0.01197**	0.32940	**0.02191**	2.50740	**0.11974**

Passive power(pJ) for B_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00673**	0.32940	**0.01607**	2.50740	**0.09765**
sg13g2_nor2b_2	0.01860	**0.01170**	0.32940	**0.02193**	2.50740	**0.11768**

Passive power(pJ) for B_N rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00607**	0.32940	**0.01529**	2.50740	**0.09879**
sg13g2_nor2b_2	**A**	0.01860	**0.01197**	0.32940	**0.02191**	2.50740	**0.11974**

Passive power(pJ) for B_N falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00673**	0.32940	**0.01607**	2.50740	**0.09765**
sg13g2_nor2b_2	**A**	0.01860	**0.01170**	0.32940	**0.02193**	2.50740	**0.11768**

NOR2x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
sg13g2_nor2_1	7.25760
sg13g2_nor2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_1	0.00340	0.00321	0.30000
sg13g2_nor2_2	0.00655	0.00625	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	417.17700	843.99600	1338.86000
sg13g2_nor2_2	834.31100	1688.02000	2677.82000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.02088**	0.32940	0.06480	**0.26303**	2.50740	0.30000	**1.34457**
	B->Y (FR)	0.01860	0.00100	**0.01847**	0.32940	0.06480	**0.29895**	2.50740	0.30000	**1.59059**
sg13g2_nor2_2	A->Y (FR)	0.01860	0.00100	**0.01972**	0.32940	0.06480	**0.16761**	2.50740	0.30000	**0.85550**
	B->Y (FR)	0.01860	0.00100	**0.01637**	0.32940	0.06480	**0.19491**	2.50740	0.30000	**1.04137**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.01439**	0.32940	0.06480	**0.19469**	2.50740	0.30000	**1.03251**
	B->Y (RF)	0.01860	0.00100	**0.01213**	0.32940	0.06480	**0.19143**	2.50740	0.30000	**1.02209**
sg13g2_nor2_2	A->Y (RF)	0.01860	0.00100	**0.01352**	0.32940	0.06480	**0.13239**	2.50740	0.30000	**0.67471**
	B->Y (RF)	0.01860	0.00100	**0.01090**	0.32940	0.06480	**0.12743**	2.50740	0.30000	**0.65710**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00824**	0.32940	0.06480	**0.01214**	2.50740	0.30000	**0.05690**
	B	0.01860	0.00100	**0.00393**	0.32940	0.06480	**0.00868**	2.50740	0.30000	**0.05176**
sg13g2_nor2_2	A	0.01860	0.00100	**0.01667**	0.32940	0.06480	**0.02742**	2.50740	0.30000	**0.14292**
	B	0.01860	0.00100	**0.00805**	0.32940	0.06480	**0.02132**	2.50740	0.30000	**0.13274**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00358**	0.32940	0.06480	**0.00781**	2.50740	0.30000	**0.04981**
	B	0.01860	0.00100	**0.00346**	0.32940	0.06480	**0.00777**	2.50740	0.30000	**0.04647**
sg13g2_nor2_2	A	0.01860	0.00100	**0.00715**	0.32940	0.06480	**0.01874**	2.50740	0.30000	**0.13117**
	B	0.01860	0.00100	**0.00559**	0.32940	0.06480	**0.01711**	2.50740	0.30000	**0.11966**

NOR3x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
sg13g2_nor3_1	9.07200
sg13g2_nor3_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_1	0.00339	0.00337	0.00320	0.30000
sg13g2_nor3_2	0.00651	0.00644	0.00616	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	628.42800	1191.34000	2091.07000
sg13g2_nor3_2	1251.47000	2285.10000	3978.85000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.03639**	0.32940	0.06480	**0.33827**	2.50740	0.30000	**1.61291**
	B->Y (FR)	0.01860	0.00100	**0.03408**	0.32940	0.06480	**0.36596**	2.50740	0.30000	**1.83230**
	C->Y (FR)	0.01860	0.00100	**0.02684**	0.32940	0.06480	**0.38945**	2.50740	0.30000	**2.02360**
sg13g2_nor3_2	A->Y (FR)	0.01860	0.00100	**0.03345**	0.32940	0.12960	**0.33916**	2.50740	0.60000	**1.61223**
	B->Y (FR)	0.01860	0.00100	**0.03132**	0.32940	0.12960	**0.36737**	2.50740	0.60000	**1.83885**
	C->Y (FR)	0.01860	0.00100	**0.02320**	0.32940	0.12960	**0.39041**	2.50740	0.60000	**2.03413**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.01632**	0.32940	0.06480	**0.19348**	2.50740	0.30000	**1.00153**
	B->Y (RF)	0.01860	0.00100	**0.01586**	0.32940	0.06480	**0.19141**	2.50740	0.30000	**0.99684**
	C->Y (RF)	0.01860	0.00100	**0.01350**	0.32940	0.06480	**0.18815**	2.50740	0.30000	**0.98867**
sg13g2_nor3_2	A->Y (RF)	0.01860	0.00100	**0.01551**	0.32940	0.12960	**0.19853**	2.50740	0.60000	**1.03115**
	B->Y (RF)	0.01860	0.00100	**0.01512**	0.32940	0.12960	**0.19603**	2.50740	0.60000	**1.02355**
	C->Y (RF)	0.01860	0.00100	**0.01236**	0.32940	0.12960	**0.19246**	2.50740	0.60000	**1.01525**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.01430**	0.32940	0.06480	**0.01702**	2.50740	0.30000	**0.06048**
	B	0.01860	0.00100	**0.01030**	0.32940	0.06480	**0.01330**	2.50740	0.30000	**0.05046**
	C	0.01860	0.00100	**0.00597**	0.32940	0.06480	**0.01012**	2.50740	0.30000	**0.04794**
sg13g2_nor3_2	A	0.01860	0.00100	**0.02796**	0.32940	0.12960	**0.03323**	2.50740	0.60000	**0.11575**
	B	0.01860	0.00100	**0.01993**	0.32940	0.12960	**0.02559**	2.50740	0.60000	**0.09670**
	C	0.01860	0.00100	**0.01118**	0.32940	0.12960	**0.01931**	2.50740	0.60000	**0.09266**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.00482**	0.32940	0.06480	**0.00825**	2.50740	0.30000	**0.04650**
	B	0.01860	0.00100	**0.00447**	0.32940	0.06480	**0.00795**	2.50740	0.30000	**0.04327**
	C	0.01860	0.00100	**0.00389**	0.32940	0.06480	**0.00770**	2.50740	0.30000	**0.04100**
sg13g2_nor3_2	A	0.01860	0.00100	**0.00883**	0.32940	0.12960	**0.01547**	2.50740	0.60000	**0.08978**
	B	0.01860	0.00100	**0.00829**	0.32940	0.12960	**0.01525**	2.50740	0.60000	**0.08338**
	C	0.01860	0.00100	**0.00641**	0.32940	0.12960	**0.01406**	2.50740	0.60000	**0.07881**

NOR4x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
sg13g2_nor4_1	10.88640
sg13g2_nor4_2	21.77280

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_1	0.00337	0.00336	0.00331	0.00313	0.30000
sg13g2_nor4_2	0.00653	0.00643	0.00636	0.00613	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	715.10200	1525.04000	2642.37000
sg13g2_nor4_2	1430.14000	3050.10000	5284.79000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.05378**	0.32940	0.06480	**0.42509**	2.50740	0.30000	**1.92137**
	B->Y (FR)	0.01860	0.00100	**0.05169**	0.32940	0.06480	**0.44207**	2.50740	0.30000	**2.08056**
	C->Y (FR)	0.01860	0.00100	**0.04526**	0.32940	0.06480	**0.46144**	2.50740	0.30000	**2.26609**
	D->Y (FR)	0.01860	0.00100	**0.03328**	0.32940	0.06480	**0.47567**	2.50740	0.30000	**2.42559**
sg13g2_nor4_2	A->Y (FR)	0.01860	0.00100	**0.05176**	0.32940	0.12960	**0.42934**	2.50740	0.60000	**1.93517**
	B->Y (FR)	0.01860	0.00100	**0.04975**	0.32940	0.12960	**0.44684**	2.50740	0.60000	**2.09922**
	C->Y (FR)	0.01860	0.00100	**0.04263**	0.32940	0.12960	**0.46519**	2.50740	0.60000	**2.28562**
	D->Y (FR)	0.01860	0.00100	**0.02972**	0.32940	0.12960	**0.47914**	2.50740	0.60000	**2.44595**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.01755**	0.32940	0.06480	**0.20147**	2.50740	0.30000	**1.02935**
	B->Y (RF)	0.01860	0.00100	**0.01786**	0.32940	0.06480	**0.20009**	2.50740	0.30000	**1.02646**
	C->Y (RF)	0.01860	0.00100	**0.01709**	0.32940	0.06480	**0.19701**	2.50740	0.30000	**1.01947**
	D->Y (RF)	0.01860	0.00100	**0.01460**	0.32940	0.06480	**0.19371**	2.50740	0.30000	**1.01189**
sg13g2_nor4_2	A->Y (RF)	0.01860	0.00100	**0.01652**	0.32940	0.12960	**0.20172**	2.50740	0.60000	**1.03006**
	B->Y (RF)	0.01860	0.00100	**0.01689**	0.32940	0.12960	**0.19988**	2.50740	0.60000	**1.02498**
	C->Y (RF)	0.01860	0.00100	**0.01614**	0.32940	0.12960	**0.19672**	2.50740	0.60000	**1.01708**
	D->Y (RF)	0.01860	0.00100	**0.01351**	0.32940	0.12960	**0.19274**	2.50740	0.60000	**1.00748**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.01912**	0.32940	0.06480	**0.02064**	2.50740	0.30000	**0.05927**
	B	0.01860	0.00100	**0.01516**	0.32940	0.06480	**0.01685**	2.50740	0.30000	**0.05064**
	C	0.01860	0.00100	**0.01125**	0.32940	0.06480	**0.01330**	2.50740	0.30000	**0.04407**
	D	0.01860	0.00100	**0.00692**	0.32940	0.06480	**0.01036**	2.50740	0.30000	**0.04244**
sg13g2_nor4_2	A	0.01860	0.00100	**0.03878**	0.32940	0.12960	**0.04148**	2.50740	0.60000	**0.11792**
	B	0.01860	0.00100	**0.03092**	0.32940	0.12960	**0.03410**	2.50740	0.60000	**0.10137**
	C	0.01860	0.00100	**0.02307**	0.32940	0.12960	**0.02704**	2.50740	0.60000	**0.08897**
	D	0.01860	0.00100	**0.01423**	0.32940	0.12960	**0.02098**	2.50740	0.60000	**0.08558**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.00559**	0.32940	0.06480	**0.00822**	2.50740	0.30000	**0.04201**
	B	0.01860	0.00100	**0.00538**	0.32940	0.06480	**0.00807**	2.50740	0.30000	**0.03929**
	C	0.01860	0.00100	**0.00482**	0.32940	0.06480	**0.00768**	2.50740	0.30000	**0.03728**
	D	0.01860	0.00100	**0.00408**	0.32940	0.06480	**0.00735**	2.50740	0.30000	**0.03504**
sg13g2_nor4_2	A	0.01860	0.00100	**0.01106**	0.32940	0.12960	**0.01631**	2.50740	0.60000	**0.08341**
	B	0.01860	0.00100	**0.01057**	0.32940	0.12960	**0.01597**	2.50740	0.60000	**0.07869**
	C	0.01860	0.00100	**0.00884**	0.32940	0.12960	**0.01482**	2.50740	0.60000	**0.07277**
	D	0.01860	0.00100	**0.00682**	0.32940	0.12960	**0.01382**	2.50740	0.60000	**0.06972**

O21AI

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
A1	A2	B1	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
sg13g2_o21ai_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_o21ai_1	0.00383	0.00373	0.00354	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	444.85800	1609.40000	2871.42000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (FR)	0.01860	0.00100	**0.03444**	0.32940	0.06480	**0.31873**	2.50740	0.30000	**1.57926**
	A2->Y (FR)	0.01860	0.00100	**0.03074**	0.32940	0.06480	**0.35779**	2.50740	0.30000	**1.86032**
	B1->Y (FR)	0.01860	0.00100	**0.01486**	0.32940	0.06480	**0.23732**	2.50740	0.30000	**1.29034**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (RF)	0.01860	0.00100	**0.02511**	0.32940	0.06480	**0.23466**	2.50740	0.30000	**1.15321**
	A2->Y (RF)	0.01860	0.00100	**0.02081**	0.32940	0.06480	**0.22910**	2.50740	0.30000	**1.14138**
	B1->Y (RF)	0.01860	0.00100	**0.01689**	0.32940	0.06480	**0.26059**	2.50740	0.30000	**1.36784**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01486**	0.32940	0.06480	**0.23732**	2.50740	0.30000	**1.29034**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01689**	0.32940	0.06480	**0.26059**	2.50740	0.30000	**1.36784**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00992**	0.32940	0.06480	**0.01259**	2.50740	0.30000	**0.05073**
	A2	0.01860	0.00100	**0.00487**	0.32940	0.06480	**0.00833**	2.50740	0.30000	**0.04371**
	B1	0.01860	0.00100	**0.00332**	0.32940	0.06480	**0.00805**	2.50740	0.30000	**0.04991**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00907**	0.32940	0.06480	**0.01169**	2.50740	0.30000	**0.04563**
	A2	0.01860	0.00100	**0.00856**	0.32940	0.06480	**0.01176**	2.50740	0.30000	**0.04353**
	B1	0.01860	0.00100	**0.00428**	0.32940	0.06480	**0.00842**	2.50740	0.30000	**0.04608**

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00332**	0.32940	0.06480	**0.00805**	2.50740	0.30000	**0.04991**

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00428**	0.32940	0.06480	**0.00842**	2.50740	0.30000	**0.04608**

OR2x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A	B	X
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
sg13g2_or2_1	9.07200
sg13g2_or2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_1	0.00280	0.00262	0.30000
sg13g2_or2_2	0.00277	0.00257	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	696.07500	922.84200	1113.96000
sg13g2_or2_2	904.59000	1261.60000	1766.34000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.03037**	0.32940	0.06480	**0.16259**	2.50740	0.30000	**0.56869**
	B->X (RR)	0.01860	0.00100	**0.02795**	0.32940	0.06480	**0.15186**	2.50740	0.30000	**0.50359**
sg13g2_or2_2	A->X (RR)	0.01860	0.00100	**0.03597**	0.32940	0.12960	**0.18311**	2.50740	0.60000	**0.61165**
	B->X (RR)	0.01860	0.00100	**0.03380**	0.32940	0.12960	**0.17411**	2.50740	0.60000	**0.55269**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.04342**	0.32940	0.06480	**0.16542**	2.50740	0.30000	**0.58010**
	B->X (FF)	0.01860	0.00100	**0.04117**	0.32940	0.06480	**0.17747**	2.50740	0.30000	**0.64842**
sg13g2_or2_2	A->X (FF)	0.01860	0.00100	**0.05649**	0.32940	0.12960	**0.19330**	2.50740	0.60000	**0.62736**
	B->X (FF)	0.01860	0.00100	**0.05438**	0.32940	0.12960	**0.20992**	2.50740	0.60000	**0.70390**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.01177**	0.32940	0.06480	**0.01986**	2.50740	0.30000	**0.09164**
	B	0.01860	0.00100	**0.01150**	0.32940	0.06480	**0.01934**	2.50740	0.30000	**0.08817**
sg13g2_or2_2	A	0.01860	0.00100	**0.02056**	0.32940	0.12960	**0.02799**	2.50740	0.60000	**0.09972**
	B	0.01860	0.00100	**0.02025**	0.32940	0.12960	**0.02766**	2.50740	0.60000	**0.09558**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.01515**	0.32940	0.06480	**0.02213**	2.50740	0.30000	**0.09085**
	B	0.01860	0.00100	**0.01206**	0.32940	0.06480	**0.02025**	2.50740	0.30000	**0.08749**
sg13g2_or2_2	A	0.01860	0.00100	**0.02664**	0.32940	0.12960	**0.03047**	2.50740	0.60000	**0.09796**
	B	0.01860	0.00100	**0.02356**	0.32940	0.12960	**0.02841**	2.50740	0.60000	**0.09489**

OR3x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
A	B	C	X
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
sg13g2_or3_1	12.70080
sg13g2_or3_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_1	0.00296	0.00289	0.00276	0.30000
sg13g2_or3_2	0.00294	0.00287	0.00272	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	703.36200	1119.57000	1554.24000
sg13g2_or3_2	911.98700	1393.40000	2004.66000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.03464**	0.32940	0.06480	**0.17679**	2.50740	0.30000	**0.61670**
	B->X (RR)	0.01860	0.00100	**0.03322**	0.32940	0.06480	**0.16814**	2.50740	0.30000	**0.55327**
	C->X (RR)	0.01860	0.00100	**0.03005**	0.32940	0.06480	**0.15687**	2.50740	0.30000	**0.50021**
sg13g2_or3_2	A->X (RR)	0.01860	0.00100	**0.04005**	0.32940	0.12960	**0.19574**	2.50740	0.60000	**0.65668**
	B->X (RR)	0.01860	0.00100	**0.03849**	0.32940	0.12960	**0.18820**	2.50740	0.60000	**0.59915**
	C->X (RR)	0.01860	0.00100	**0.03553**	0.32940	0.12960	**0.17847**	2.50740	0.60000	**0.55024**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.06043**	0.32940	0.06480	**0.17833**	2.50740	0.30000	**0.58452**
	B->X (FF)	0.01860	0.00100	**0.05844**	0.32940	0.06480	**0.19203**	2.50740	0.30000	**0.65746**
	C->X (FF)	0.01860	0.00100	**0.05139**	0.32940	0.06480	**0.19714**	2.50740	0.30000	**0.69488**
sg13g2_or3_2	A->X (FF)	0.01860	0.00100	**0.07679**	0.32940	0.12960	**0.20680**	2.50740	0.60000	**0.62696**
	B->X (FF)	0.01860	0.00100	**0.07482**	0.32940	0.12960	**0.22333**	2.50740	0.60000	**0.70742**
	C->X (FF)	0.01860	0.00100	**0.06788**	0.32940	0.12960	**0.23118**	2.50740	0.60000	**0.75309**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.01249**	0.32940	0.06480	**0.02005**	2.50740	0.30000	**0.09686**
	B	0.01860	0.00100	**0.01228**	0.32940	0.06480	**0.01949**	2.50740	0.30000	**0.08802**
	C	0.01860	0.00100	**0.01176**	0.32940	0.06480	**0.01910**	2.50740	0.30000	**0.08627**
sg13g2_or3_2	A	0.01860	0.00100	**0.02157**	0.32940	0.12960	**0.02857**	2.50740	0.60000	**0.10536**
	B	0.01860	0.00100	**0.02121**	0.32940	0.12960	**0.02807**	2.50740	0.60000	**0.09672**
	C	0.01860	0.00100	**0.02060**	0.32940	0.12960	**0.02749**	2.50740	0.60000	**0.09434**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.02213**	0.32940	0.06480	**0.02699**	2.50740	0.30000	**0.09996**
	B	0.01860	0.00100	**0.01864**	0.32940	0.06480	**0.02417**	2.50740	0.30000	**0.09056**
	C	0.01860	0.00100	**0.01480**	0.32940	0.06480	**0.02195**	2.50740	0.30000	**0.08716**
sg13g2_or3_2	A	0.01860	0.00100	**0.03528**	0.32940	0.12960	**0.03528**	2.50740	0.60000	**0.10754**
	B	0.01860	0.00100	**0.03190**	0.32940	0.12960	**0.03244**	2.50740	0.60000	**0.09811**
	C	0.01860	0.00100	**0.02803**	0.32940	0.12960	**0.03008**	2.50740	0.60000	**0.09496**

OR4x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT				OUTPUT
A	B	C	D	X
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
sg13g2_or4_1	14.51520
sg13g2_or4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_1	0.00296	0.00286	0.00284	0.00275	0.30000
sg13g2_or4_2	0.00293	0.00284	0.00282	0.00271	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	707.01100	1314.75000	1993.47000
sg13g2_or4_2	915.57300	1555.91000	2202.08000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.03633**	0.32940	0.06480	**0.18280**	2.50740	0.30000	**0.61378**
	B->X (RR)	0.01860	0.00100	**0.03595**	0.32940	0.06480	**0.17650**	2.50740	0.30000	**0.55983**
	C->X (RR)	0.01860	0.00100	**0.03406**	0.32940	0.06480	**0.16763**	2.50740	0.30000	**0.50808**
	D->X (RR)	0.01860	0.00100	**0.03073**	0.32940	0.06480	**0.15651**	2.50740	0.30000	**0.48005**
sg13g2_or4_2	A->X (RR)	0.01860	0.00100	**0.04184**	0.32940	0.12960	**0.20138**	2.50740	0.60000	**0.65141**
	B->X (RR)	0.01860	0.00100	**0.04122**	0.32940	0.12960	**0.19562**	2.50740	0.60000	**0.60270**
	C->X (RR)	0.01860	0.00100	**0.03919**	0.32940	0.12960	**0.18754**	2.50740	0.60000	**0.55542**
	D->X (RR)	0.01860	0.00100	**0.03608**	0.32940	0.12960	**0.17828**	2.50740	0.60000	**0.51774**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.08383**	0.32940	0.06480	**0.20328**	2.50740	0.30000	**0.63351**
	B->X (FF)	0.01860	0.00100	**0.08175**	0.32940	0.06480	**0.21383**	2.50740	0.30000	**0.70277**
	C->X (FF)	0.01860	0.00100	**0.07461**	0.32940	0.06480	**0.22161**	2.50740	0.30000	**0.74895**
	D->X (FF)	0.01860	0.00100	**0.06269**	0.32940	0.06480	**0.22216**	2.50740	0.30000	**0.77259**
sg13g2_or4_2	A->X (FF)	0.01860	0.00100	**0.10590**	0.32940	0.12960	**0.23695**	2.50740	0.60000	**0.67976**
	B->X (FF)	0.01860	0.00100	**0.10379**	0.32940	0.12960	**0.24870**	2.50740	0.60000	**0.75261**
	C->X (FF)	0.01860	0.00100	**0.09668**	0.32940	0.12960	**0.25944**	2.50740	0.60000	**0.80766**
	D->X (FF)	0.01860	0.00100	**0.08490**	0.32940	0.12960	**0.26289**	2.50740	0.60000	**0.83842**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.01367**	0.32940	0.06480	**0.02003**	2.50740	0.30000	**0.09358**
	B	0.01860	0.00100	**0.01335**	0.32940	0.06480	**0.01949**	2.50740	0.30000	**0.08508**
	C	0.01860	0.00100	**0.01249**	0.32940	0.06480	**0.01858**	2.50740	0.30000	**0.07820**
	D	0.01860	0.00100	**0.01189**	0.32940	0.06480	**0.01821**	2.50740	0.30000	**0.07738**
sg13g2_or4_2	A	0.01860	0.00100	**0.02290**	0.32940	0.12960	**0.02872**	2.50740	0.60000	**0.10235**
	B	0.01860	0.00100	**0.02244**	0.32940	0.12960	**0.02818**	2.50740	0.60000	**0.09396**
	C	0.01860	0.00100	**0.02141**	0.32940	0.12960	**0.02713**	2.50740	0.60000	**0.08684**
	D	0.01860	0.00100	**0.02071**	0.32940	0.12960	**0.02691**	2.50740	0.60000	**0.08633**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.02724**	0.32940	0.06480	**0.02929**	2.50740	0.30000	**0.09935**
	B	0.01860	0.00100	**0.02387**	0.32940	0.06480	**0.02646**	2.50740	0.30000	**0.09085**
	C	0.01860	0.00100	**0.02041**	0.32940	0.06480	**0.02396**	2.50740	0.30000	**0.08282**
	D	0.01860	0.00100	**0.01648**	0.32940	0.06480	**0.02183**	2.50740	0.30000	**0.08039**
sg13g2_or4_2	A	0.01860	0.00100	**0.04329**	0.32940	0.12960	**0.03818**	2.50740	0.60000	**0.10700**
	B	0.01860	0.00100	**0.03985**	0.32940	0.12960	**0.03501**	2.50740	0.60000	**0.09813**
	C	0.01860	0.00100	**0.03636**	0.32940	0.12960	**0.03288**	2.50740	0.60000	**0.09076**
	D	0.01860	0.00100	**0.03245**	0.32940	0.12960	**0.03049**	2.50740	0.60000	**0.08827**

SDFBBP

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT						OUTPUT	
CLK	D	RESET_B	SCD	SCE	SET_B	Q	Q_N
R	0	1	0	x	1	0	1
R	0	1	1	0	1	0	1
R	x	1	1	1	1	1	0
R	1	1	x	0	1	1	0
R	1	1	0	1	1	0	1
x	x	x	x	x	0	1	0
x	x	0	x	x	1	0	1
x	x	1	x	x	1	IQ	IQN

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	CLK	D	RESET_B	SCD	SCE	SET_B	Q	Q_N
sg13g2_sdfbbp_1	0.00341	0.00218	0.00195	0.00225	0.00395	0.00587	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	5256.03000	6694.12000	7569.43000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.14325**	0.32940	0.06480	**0.27514**	2.50740	0.30000	**0.66096**
	SET_B->Q (FR)	0.01860	0.00100	**0.06017**	0.32940	0.06480	**0.20434**	2.50740	0.30000	**0.63105**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.12065**	0.32940	0.06480	**0.24333**	2.50740	0.30000	**0.59393**
	RESET_B->Q (FF)	0.01860	0.00100	**0.10058**	0.32940	0.06480	**0.23213**	2.50740	0.30000	**0.61605**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.14325**	0.32940	0.06480	**0.27514**	2.50740	0.30000	**0.66096**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.12065**	0.32940	0.06480	**0.24333**	2.50740	0.30000	**0.59393**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.10015**	0.32940	0.06480	**0.24516**	2.50740	0.30000	**0.64443**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07943**	0.32940	0.06480	**0.23754**	2.50740	0.30000	**0.67304**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.12071**	0.32940	0.06480	**0.26021**	2.50740	0.30000	**0.60262**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.04106**	0.32940	0.06480	**0.18811**	2.50740	0.30000	**0.57498**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.10015**	0.32940	0.06480	**0.24516**	2.50740	0.30000	**0.64443**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.12071**	0.32940	0.06480	**0.26021**	2.50740	0.30000	**0.60262**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.04776**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.14841**	2.50740	2.50740	**-0.20661**
	setup	**CLK (R)**	0.01860	0.01860	**0.05624**	1.26300	1.26300	**0.15651**	2.50740	2.50740	**0.21546**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.11873**	2.50740	2.50740	**-0.16824**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.13762**	2.50740	2.50740	**0.19775**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.06198**
	removal	**CLK (R)**	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**-0.04048**	2.50740	2.50740	**-0.04722**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.06699**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.22727**
	setup	CLK (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.17000**	2.50740	2.50740	**0.23612**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.06113**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.15348**
	setup	CLK (R)	0.01860	0.01860	**0.08314**	1.26300	1.26300	**0.13222**	2.50740	2.50740	**0.18299**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.04890**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.26269**
	setup	CLK (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.19158**	2.50740	2.50740	**0.28630**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.07674**
	setup	CLK (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.08905**	2.50740	2.50740	**0.10921**

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.00489**	1.26300	1.26300	**0.09714**	2.50740	2.50740	**0.26564**
	removal	CLK (R)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**0.03778**	2.50740	2.50740	**0.02952**
	hold	RESET_B (R)	0.01860	0.01860	**-0.03668**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.18890**
	setup	RESET_B (R)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.14571**	2.50740	2.50740	**0.23022**

Constraints(ns) for SET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**SET_B ()**	0.01860	0.00000	**0.04776**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.03414**	0.32940	0.06480	**0.04065**	2.50740	0.30000	**0.10078**
	SET_B	0.01860	0.00100	**0.06163**	0.32940	0.06480	**0.16657**	2.50740	0.30000	**0.63278**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.03302**	0.32940	0.06480	**0.04008**	2.50740	0.30000	**0.10294**
	RESET_B	0.01860	0.00100	**0.07060**	0.32940	0.06480	**0.16487**	2.50740	0.30000	**0.55509**

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.03414**	0.32940	0.06480	**0.04065**	2.50740	0.30000	**0.10078**

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.03302**	0.32940	0.06480	**0.04008**	2.50740	0.30000	**0.10294**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.03301**	0.32940	0.06480	**0.04019**	2.50740	0.30000	**0.10358**
	RESET_B	0.01860	0.00100	**0.07053**	0.32940	0.06480	**0.16486**	2.50740	0.30000	**0.55600**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.03413**	0.32940	0.06480	**0.04062**	2.50740	0.30000	**0.09998**
	SET_B	0.01860	0.00100	**0.06162**	0.32940	0.06480	**0.16651**	2.50740	0.30000	**0.63211**

Internal switching power(pJ) to Q_N rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.03301**	0.32940	0.06480	**0.04019**	2.50740	0.30000	**0.10358**

Internal switching power(pJ) to Q_N falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.03413**	0.32940	0.06480	**0.04062**	2.50740	0.30000	**0.09998**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02233**	0.32940	**0.03553**	2.50740	**0.15811**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02254**	0.32940	**0.03610**	2.50740	**0.15487**

Passive power(pJ) for CLK rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01978**	0.32940	**0.03283**	2.50740	**0.15529**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02429**	0.32940	**0.03736**	2.50740	**0.15943**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01992**	0.32940	**0.03312**	2.50740	**0.15563**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.02688**	0.32940	**0.03995**	2.50740	**0.16247**
	(!RESET_B * !Q * Q_N)	0.01860	**0.02233**	0.32940	**0.03553**	2.50740	**0.15811**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01987**	0.32940	**0.03312**	2.50740	**0.15586**

Passive power(pJ) for CLK falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.02128**	0.32940	**0.03486**	2.50740	**0.15385**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.03833**	0.32940	**0.05220**	2.50740	**0.17520**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02076**	0.32940	**0.03492**	2.50740	**0.15588**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.04167**	0.32940	**0.05587**	2.50740	**0.17707**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.02161**	0.32940	**0.03516**	2.50740	**0.15393**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.02100**	0.32940	**0.03458**	2.50740	**0.15360**
	(!RESET_B * !Q * Q_N)	0.01860	**0.02254**	0.32940	**0.03610**	2.50740	**0.15487**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.02161**	0.32940	**0.03516**	2.50740	**0.15393**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02091**	0.32940	**0.02565**	2.50740	**0.07793**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02228**	0.32940	**0.02716**	2.50740	**0.07890**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	**(!CLK * RESET_B * !SCE * SET_B)**	0.01860	**0.02091**	0.32940	**0.02565**	2.50740	**0.07793**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00678**	0.32940	**0.01074**	2.50740	**0.05702**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	**(!CLK * RESET_B * !SCE * SET_B)**	0.01860	**0.02228**	0.32940	**0.02716**	2.50740	**0.07890**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00876**	0.32940	**0.01293**	2.50740	**0.05898**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02379**	0.32940	**0.02785**	2.50740	**0.08166**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.03083**	0.32940	**0.03488**	2.50740	**0.08838**

Passive power(pJ) for SCD rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.02379**	0.32940	**0.02785**	2.50740	**0.08166**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00986**	0.32940	**0.01318**	2.50740	**0.06172**

Passive power(pJ) for SCD falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.03083**	0.32940	**0.03488**	2.50740	**0.08838**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00651**	0.32940	**0.01001**	2.50740	**0.05851**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02757**	0.32940	**0.03450**	2.50740	**0.09968**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.03780**	0.32940	**0.05259**	2.50740	**0.11588**

Passive power(pJ) for SCE rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.02164**	0.32940	**0.02908**	2.50740	**0.09446**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02757**	0.32940	**0.03450**	2.50740	**0.09968**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.02317**	0.32940	**0.03580**	2.50740	**0.15347**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00860**	0.32940	**0.02043**	2.50740	**0.13234**

Passive power(pJ) for SCE falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.02868**	0.32940	**0.03586**	2.50740	**0.09926**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.03780**	0.32940	**0.05259**	2.50740	**0.11588**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01744**	0.32940	**0.06125**	2.50740	**0.17480**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00835**	0.32940	**0.01948**	2.50740	**0.12830**

SDFRBPQx

sg13g2_stdcell_fast_1p65V_m40C Cell Library:
Process sg13g2_stdcell_fast_1p65V_m40C, Voltage
1.65, Temp -40.00

Truth Table

INPUT					OUTPUT
CLK	D	RESET_B	SCD	SCE	Q
R	0	1	0	x	0
R	0	1	1	0	0
R	x	1	1	1	1
R	1	1	x	0	1
R	1	1	0	1	0
x	x	0	x	x	0
x	x	1	x	x	IQ

Footprint

Cell Name	Area
sg13g2_sdfrbpq_1	63.50400
sg13g2_sdfrbpq_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CLK	D	RESET_B	SCD	SCE	Q
sg13g2_sdfrbpq_1	0.00334	0.00312	0.00559	0.00325	0.00558	0.30000
sg13g2_sdfrbpq_2	0.00334	0.00312	0.00560	0.00325	0.00558	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbpq_1	5573.05000	6339.70000	7197.96000
sg13g2_sdfrbpq_2	5849.84000	6854.73000	7927.51000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.08442**	0.32940	0.06480	**0.22358**	2.50740	0.30000	**0.60702**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.09779**	0.32940	0.12960	**0.24423**	2.50740	0.60000	**0.62937**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.08746**	0.32940	0.06480	**0.21469**	2.50740	0.30000	**0.54843**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04850**	0.32940	0.06480	**0.20718**	2.50740	0.30000	**0.66034**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.10026**	0.32940	0.12960	**0.23428**	2.50740	0.60000	**0.56687**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06090**	0.32940	0.12960	**0.23638**	2.50740	0.60000	**0.71279**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.08442**	0.32940	0.06480	**0.22354**	2.50740	0.30000	**0.60683**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.08442**	0.32940	0.06480	**0.22358**	2.50740	0.30000	**0.60702**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.09778**	0.32940	0.12960	**0.24430**	2.50740	0.60000	**0.62932**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.09779**	0.32940	0.12960	**0.24423**	2.50740	0.60000	**0.62937**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.08748**	0.32940	0.06480	**0.21459**	2.50740	0.30000	**0.54842**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.08746**	0.32940	0.06480	**0.21469**	2.50740	0.30000	**0.54843**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.10027**	0.32940	0.12960	**0.23416**	2.50740	0.60000	**0.56685**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.10026**	0.32940	0.12960	**0.23428**	2.50740	0.60000	**0.56687**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.04135**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.04776**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.13872**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.15053**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.13872**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.15053**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.16824**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14841**	2.50740	2.50740	**0.20070**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.16824**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14841**	2.50740	2.50740	**0.20070**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.21317**	2.50740	2.50740	**0.41026**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.28630**
sg13g2_sdfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.25095**	2.50740	2.50740	**0.57260**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.28630**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.06699**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.13577**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.15053**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.13577**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.15053**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.17119**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14841**	2.50740	2.50740	**0.20070**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.17119**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14841**	2.50740	2.50740	**0.20070**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.11333**	2.50740	2.50740	**-0.12692**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.12682**	2.50740	2.50740	**0.13872**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.11333**	2.50740	2.50740	**-0.12692**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.12682**	2.50740	2.50740	**0.13872**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.09714**	2.50740	2.50740	**-0.12692**
	setup	**CLK (R)**	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.12143**	2.50740	2.50740	**0.15643**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.09714**	2.50740	2.50740	**-0.12692**
	setup	**CLK (R)**	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.12143**	2.50740	2.50740	**0.15643**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.04160**	0.32940	0.06480	**0.05609**	2.50740	0.30000	**0.18459**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.05528**	0.32940	0.12960	**0.06627**	2.50740	0.60000	**0.19541**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.04595**	0.32940	0.06480	**0.06044**	2.50740	0.30000	**0.18356**
	RESET_B	0.01860	0.00100	**0.04046**	0.32940	0.06480	**0.05128**	2.50740	0.30000	**0.15678**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.05757**	0.32940	0.12960	**0.06908**	2.50740	0.60000	**0.19192**
	RESET_B	0.01860	0.00100	**0.05264**	0.32940	0.12960	**0.06003**	2.50740	0.60000	**0.16642**

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.04160**	0.32940	0.06480	**0.05609**	2.50740	0.30000	**0.18459**
	CLK	!SCE	0.01860	0.00100	**0.02493**	0.32940	0.06480	**0.02573**	2.50740	0.30000	**0.03089**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.05528**	0.32940	0.12960	**0.06627**	2.50740	0.60000	**0.19541**
	CLK	!SCE	0.01860	0.00100	**0.03714**	0.32940	0.12960	**0.03474**	2.50740	0.60000	**0.04009**

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.04595**	0.32940	0.06480	**0.06044**	2.50740	0.30000	**0.18356**
	CLK	!SCE	0.01860	0.00100	**0.02729**	0.32940	0.06480	**0.02814**	2.50740	0.30000	**0.02771**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.05757**	0.32940	0.12960	**0.06908**	2.50740	0.60000	**0.19192**
	CLK	!SCE	0.01860	0.00100	**0.03891**	0.32940	0.12960	**0.03683**	2.50740	0.60000	**0.03583**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01798**	0.32940	**0.03154**	2.50740	**0.15511**
sg13g2_sdfrbpq_2	0.01860	**0.01800**	0.32940	**0.03154**	2.50740	**0.15512**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02017**	0.32940	**0.03395**	2.50740	**0.15337**
sg13g2_sdfrbpq_2	0.01860	**0.02059**	0.32940	**0.03440**	2.50740	**0.15374**

Passive power(pJ) for CLK rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.01839**	0.32940	**0.03195**	2.50740	**0.15560**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01798**	0.32940	**0.03154**	2.50740	**0.15511**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01840**	0.32940	**0.03195**	2.50740	**0.15560**
	(!RESET_B * !Q)	0.01860	**0.01505**	0.32940	**0.02852**	2.50740	**0.15188**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01799**	0.32940	**0.03154**	2.50740	**0.15511**
sg13g2_sdfrbpq_2	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.01842**	0.32940	**0.03195**	2.50740	**0.15565**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01798**	0.32940	**0.03154**	2.50740	**0.15511**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01840**	0.32940	**0.03195**	2.50740	**0.15565**
	(!RESET_B * !Q)	0.01860	**0.01719**	0.32940	**0.03067**	2.50740	**0.15402**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01800**	0.32940	**0.03154**	2.50740	**0.15512**

Passive power(pJ) for CLK falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(RESET_B * SCD * SCE * Q)	0.01860	**0.01978**	0.32940	**0.03359**	2.50740	**0.15321**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.03998**	0.32940	**0.05422**	2.50740	**0.17826**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.03689**	0.32940	**0.05138**	2.50740	**0.17311**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.02017**	0.32940	**0.03395**	2.50740	**0.15337**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01978**	0.32940	**0.03359**	2.50740	**0.15321**
	(!RESET_B * !Q)	0.01860	**0.01252**	0.32940	**0.02625**	2.50740	**0.14579**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.02017**	0.32940	**0.03395**	2.50740	**0.15337**
sg13g2_sdfrbpq_2	(RESET_B * SCD * SCE * Q)	0.01860	**0.02059**	0.32940	**0.03440**	2.50740	**0.15374**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.03974**	0.32940	**0.05401**	2.50740	**0.17810**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.03768**	0.32940	**0.05214**	2.50740	**0.17370**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01991**	0.32940	**0.03366**	2.50740	**0.15325**
	(D * RESET_B * !SCE * Q)	0.01860	**0.02059**	0.32940	**0.03440**	2.50740	**0.15374**
	(!RESET_B * !Q)	0.01860	**0.01468**	0.32940	**0.02840**	2.50740	**0.14779**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01991**	0.32940	**0.03366**	2.50740	**0.15325**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.03828**	0.32940	**0.04783**	2.50740	**0.13917**
sg13g2_sdfrbpq_2	0.01860	**0.05119**	0.32940	**0.06074**	2.50740	**0.15208**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.04444**	0.32940	**0.05583**	2.50740	**0.14708**
sg13g2_sdfrbpq_2	0.01860	**0.04966**	0.32940	**0.06103**	2.50740	**0.15230**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03828**	0.32940	**0.04783**	2.50740	**0.13917**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.05119**	0.32940	**0.06074**	2.50740	**0.15208**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.04444**	0.32940	**0.05583**	2.50740	**0.14708**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.04966**	0.32940	**0.06103**	2.50740	**0.15230**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.03853**	0.32940	**0.04802**	2.50740	**0.13944**
sg13g2_sdfrbpq_2	0.01860	**0.05145**	0.32940	**0.06095**	2.50740	**0.15237**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.04464**	0.32940	**0.05617**	2.50740	**0.14784**
sg13g2_sdfrbpq_2	0.01860	**0.04986**	0.32940	**0.06139**	2.50740	**0.15306**

Passive power(pJ) for SCD rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.03853**	0.32940	**0.04802**	2.50740	**0.13944**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.05145**	0.32940	**0.06095**	2.50740	**0.15237**

Passive power(pJ) for SCD falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.04464**	0.32940	**0.05617**	2.50740	**0.14784**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.04986**	0.32940	**0.06139**	2.50740	**0.15306**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.04551**	0.32940	**0.06370**	2.50740	**0.24109**
sg13g2_sdfrbpq_2	0.01860	**0.04552**	0.32940	**0.06367**	2.50740	**0.24106**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.07049**	0.32940	**0.10067**	2.50740	**0.27426**
sg13g2_sdfrbpq_2	0.01860	**0.07264**	0.32940	**0.10282**	2.50740	**0.27637**

Passive power(pJ) for SCE rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.04367**	0.32940	**0.05287**	2.50740	**0.14050**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.04551**	0.32940	**0.06370**	2.50740	**0.24109**
sg13g2_sdfrbpq_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.04581**	0.32940	**0.05502**	2.50740	**0.14250**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.04552**	0.32940	**0.06367**	2.50740	**0.24106**

Passive power(pJ) for SCE falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.04999**	0.32940	**0.05961**	2.50740	**0.14551**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.07049**	0.32940	**0.10067**	2.50740	**0.27426**
sg13g2_sdfrbpq_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.04995**	0.32940	**0.05958**	2.50740	**0.14548**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.07264**	0.32940	**0.10282**	2.50740	**0.27637**

SDFRBPx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT					OUTPUT	
CLK	D	RESET_B	SCD	SCE	Q	Q_N
R	0	1	0	x	0	1
R	0	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	x	0	1	0
R	1	1	0	1	0	1
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
sg13g2_sdfrbp_1	68.94720
sg13g2_sdfrbp_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CLK	D	RESET_B	SCD	SCE	Q	Q_N
sg13g2_sdfrbp_1	0.00334	0.00312	0.00562	0.00325	0.00558	0.30000	0.30000
sg13g2_sdfrbp_2	0.00334	0.00312	0.00556	0.00325	0.00558	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbp_1	5966.12000	7105.73000	7590.98000
sg13g2_sdfrbp_2	6904.25000	8043.80000	8529.03000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.08964**	0.32940	0.06480	**0.22367**	2.50740	0.30000	**0.62693**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.11333**	0.32940	0.12960	**0.24475**	2.50740	0.60000	**0.65239**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.08386**	0.32940	0.06480	**0.20414**	2.50740	0.30000	**0.53867**
	RESET_B->Q (FF)	0.01860	0.00100	**0.11552**	0.32940	0.06480	**0.26526**	2.50740	0.30000	**0.72816**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.10206**	0.32940	0.12960	**0.22289**	2.50740	0.60000	**0.56115**
	RESET_B->Q (FF)	0.01860	0.00100	**0.13431**	0.32940	0.12960	**0.28498**	2.50740	0.60000	**0.75147**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.08964**	0.32940	0.06480	**0.22367**	2.50740	0.30000	**0.62693**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.11333**	0.32940	0.12960	**0.24475**	2.50740	0.60000	**0.65239**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.08386**	0.32940	0.06480	**0.20414**	2.50740	0.30000	**0.53867**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.10206**	0.32940	0.12960	**0.22289**	2.50740	0.60000	**0.56115**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.06519**	0.32940	0.06480	**0.20952**	2.50740	0.30000	**0.58959**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.09709**	0.32940	0.06480	**0.26941**	2.50740	0.30000	**0.77897**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	0.01860	0.00100	**0.06901**	0.32940	0.12960	**0.21897**	2.50740	0.60000	**0.60084**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10195**	0.32940	0.12960	**0.27985**	2.50740	0.60000	**0.79079**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.06815**	0.32940	0.06480	**0.21331**	2.50740	0.30000	**0.57569**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	0.01860	0.00100	**0.07508**	0.32940	0.12960	**0.22752**	2.50740	0.60000	**0.59355**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.06519**	0.32940	0.06480	**0.20952**	2.50740	0.30000	**0.58959**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.06901**	0.32940	0.12960	**0.21897**	2.50740	0.60000	**0.60084**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.06815**	0.32940	0.06480	**0.21331**	2.50740	0.30000	**0.57569**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.07508**	0.32940	0.12960	**0.22752**	2.50740	0.60000	**0.59355**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.05096**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06378**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.13577**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.13762**	2.50740	2.50740	**0.14758**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.13577**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.14758**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.17709**
	setup	**CLK (R)**	0.01860	0.01860	**0.09047**	1.26300	1.26300	**0.15111**	2.50740	2.50740	**0.20070**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.17709**
	setup	**CLK (R)**	0.01860	0.01860	**0.09047**	1.26300	1.26300	**0.15111**	2.50740	2.50740	**0.20070**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.28925**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.28630**
sg13g2_sdfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.28925**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.28630**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.13577**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.14758**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.13577**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.14758**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.18299**
	setup	**CLK (R)**	0.01860	0.01860	**0.09047**	1.26300	1.26300	**0.15111**	2.50740	2.50740	**0.20366**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.18299**
	setup	**CLK (R)**	0.01860	0.01860	**0.09047**	1.26300	1.26300	**0.15111**	2.50740	2.50740	**0.20366**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.11333**	2.50740	2.50740	**-0.12397**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.12412**	2.50740	2.50740	**0.13577**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.11333**	2.50740	2.50740	**-0.12397**
	setup	**CLK (R)**	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.12682**	2.50740	2.50740	**0.13577**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.10254**	2.50740	2.50740	**-0.13872**
	setup	**CLK (R)**	0.01860	0.01860	**0.09536**	1.26300	1.26300	**0.12412**	2.50740	2.50740	**0.15938**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.10254**	2.50740	2.50740	**-0.13872**
	setup	**CLK (R)**	0.01860	0.01860	**0.09536**	1.26300	1.26300	**0.12412**	2.50740	2.50740	**0.15938**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.06234**	0.32940	0.06480	**0.16273**	2.50740	0.30000	**0.61232**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.08367**	0.32940	0.12960	**0.26699**	2.50740	0.60000	**1.03459**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.06387**	0.32940	0.06480	**0.16550**	2.50740	0.30000	**0.60833**
	RESET_B	0.01860	0.00100	**0.08905**	0.32940	0.06480	**0.22862**	2.50740	0.30000	**0.79287**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.08323**	0.32940	0.12960	**0.27061**	2.50740	0.60000	**1.03194**
	RESET_B	0.01860	0.00100	**0.08563**	0.32940	0.12960	**0.34275**	2.50740	0.60000	**1.35098**

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	**0.06234**	0.32940	0.06480	**0.16273**	2.50740	0.30000	**0.61232**
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	**0.08367**	0.32940	0.12960	**0.26699**	2.50740	0.60000	**1.03459**

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	**0.06387**	0.32940	0.06480	**0.16550**	2.50740	0.30000	**0.60833**
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	**0.08323**	0.32940	0.12960	**0.27061**	2.50740	0.60000	**1.03194**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.06381**	0.32940	0.06480	**0.16557**	2.50740	0.30000	**0.60916**
	RESET_B	0.01860	0.00100	**0.08872**	0.32940	0.06480	**0.21109**	2.50740	0.30000	**0.71174**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.08330**	0.32940	0.12960	**0.27072**	2.50740	0.60000	**1.03385**
	RESET_B	0.01860	0.00100	**0.08532**	0.32940	0.12960	**0.30762**	2.50740	0.60000	**1.18874**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.06238**	0.32940	0.06480	**0.16266**	2.50740	0.30000	**0.61137**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.08521**	0.32940	0.12960	**0.26825**	2.50740	0.60000	**1.03431**

Internal switching power(pJ) to Q_N rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.06381**	0.32940	0.06480	**0.16557**	2.50740	0.30000	**0.60916**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.08330**	0.32940	0.12960	**0.27072**	2.50740	0.60000	**1.03385**

Internal switching power(pJ) to Q_N falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.06238**	0.32940	0.06480	**0.16266**	2.50740	0.30000	**0.61137**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.08521**	0.32940	0.12960	**0.26825**	2.50740	0.60000	**1.03431**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01804**	0.32940	**0.03148**	2.50740	**0.15506**
sg13g2_sdfrbp_2	0.01860	**0.01805**	0.32940	**0.03151**	2.50740	**0.15527**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02021**	0.32940	**0.03395**	2.50740	**0.15340**
sg13g2_sdfrbp_2	0.01860	**0.02023**	0.32940	**0.03395**	2.50740	**0.15338**

Passive power(pJ) for CLK rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.01846**	0.32940	**0.03193**	2.50740	**0.15555**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01804**	0.32940	**0.03148**	2.50740	**0.15506**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01849**	0.32940	**0.03193**	2.50740	**0.15555**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01136**	0.32940	**0.02474**	2.50740	**0.14812**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01804**	0.32940	**0.03148**	2.50740	**0.15506**
sg13g2_sdfrbp_2	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.01847**	0.32940	**0.03193**	2.50740	**0.15546**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01805**	0.32940	**0.03151**	2.50740	**0.15527**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01849**	0.32940	**0.03193**	2.50740	**0.15546**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01139**	0.32940	**0.02474**	2.50740	**0.14810**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01807**	0.32940	**0.03151**	2.50740	**0.15527**

Passive power(pJ) for CLK falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last

sg13g2_sdfrbp_1	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.01983**	0.32940	**0.03358**	2.50740	**0.15310**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.04003**	0.32940	**0.05421**	2.50740	**0.17828**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.03697**	0.32940	**0.05136**	2.50740	**0.17306**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.02021**	0.32940	**0.03395**	2.50740	**0.15340**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01983**	0.32940	**0.03358**	2.50740	**0.15310**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00883**	0.32940	**0.02256**	2.50740	**0.14205**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.02019**	0.32940	**0.03395**	2.50740	**0.15340**
sg13g2_sdfrbp_2	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.01986**	0.32940	**0.03358**	2.50740	**0.15311**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.03998**	0.32940	**0.05420**	2.50740	**0.17826**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.03696**	0.32940	**0.05136**	2.50740	**0.17303**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.02023**	0.32940	**0.03395**	2.50740	**0.15338**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01987**	0.32940	**0.03358**	2.50740	**0.15311**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00885**	0.32940	**0.02255**	2.50740	**0.14203**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.02022**	0.32940	**0.03395**	2.50740	**0.15338**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.03776**	0.32940	**0.04722**	2.50740	**0.13860**
sg13g2_sdfrbp_2	0.01860	**0.03771**	0.32940	**0.04719**	2.50740	**0.13858**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.04101**	0.32940	**0.05242**	2.50740	**0.14364**
sg13g2_sdfrbp_2	0.01860	**0.04102**	0.32940	**0.05243**	2.50740	**0.14364**

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03776**	0.32940	**0.04722**	2.50740	**0.13860**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03771**	0.32940	**0.04719**	2.50740	**0.13858**

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.04101**	0.32940	**0.05242**	2.50740	**0.14364**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.04102**	0.32940	**0.05243**	2.50740	**0.14364**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.03856**	0.32940	**0.04803**	2.50740	**0.13944**
sg13g2_sdfrbp_2	0.01860	**0.03852**	0.32940	**0.04800**	2.50740	**0.13942**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.03517**	0.32940	**0.04669**	2.50740	**0.13836**
sg13g2_sdfrbp_2	0.01860	**0.03517**	0.32940	**0.04670**	2.50740	**0.13836**

Passive power(pJ) for SCD rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.03856**	0.32940	**0.04803**	2.50740	**0.13944**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.03852**	0.32940	**0.04800**	2.50740	**0.13942**

Passive power(pJ) for SCD falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.03517**	0.32940	**0.04669**	2.50740	**0.13836**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.03517**	0.32940	**0.04670**	2.50740	**0.13836**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.04554**	0.32940	**0.06370**	2.50740	**0.24108**
sg13g2_sdfrbp_2	0.01860	**0.04549**	0.32940	**0.06366**	2.50740	**0.24098**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.06673**	0.32940	**0.09694**	2.50740	**0.27053**
sg13g2_sdfrbp_2	0.01860	**0.06676**	0.32940	**0.09692**	2.50740	**0.27047**

Passive power(pJ) for SCE rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.03994**	0.32940	**0.04914**	2.50740	**0.13675**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.04554**	0.32940	**0.06370**	2.50740	**0.24108**
sg13g2_sdfrbp_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.03994**	0.32940	**0.04914**	2.50740	**0.13671**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.04549**	0.32940	**0.06366**	2.50740	**0.24098**

Passive power(pJ) for SCE falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.04998**	0.32940	**0.05961**	2.50740	**0.14550**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.06673**	0.32940	**0.09694**	2.50740	**0.27053**
sg13g2_sdfrbp_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.04994**	0.32940	**0.05958**	2.50740	**0.14546**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.06676**	0.32940	**0.09692**	2.50740	**0.27047**

SIGHOLD

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT	OUTPUT
SH	SH
x	-

Footprint

Cell Name	Area
sg13g2_sighold	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	SH	SH
sg13g2_sighold	0.02917	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	397.86700	1643.61000	2889.35000

Passive Power Information

Passive power(pJ) for SH rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.01063**	0.32940	**0.03280**	2.50740	**0.20081**

Passive power(pJ) for SH falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.00844**	0.32940	**0.03095**	2.50740	**0.23189**

SLGCP

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT			OUTPUT
CLK	GATE	SCE	GCLK
0	x	x	0
1	x	x	GCLK

Footprint

Cell Name	Area
sg13g2_slgcp_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	GATE	SCE	GCLK
sg13g2_slgcp_1	0.00567	0.00220	0.00264	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	3359.58000	3666.94000	4067.25000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.03690**	0.32940	0.06480	**0.16432**	2.50740	0.30000	**0.58834**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.03170**	0.32940	0.06480	**0.15614**	2.50740	0.30000	**0.55559**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.11185**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.04776**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01697**	1.26300	1.26300	**-0.08850**	2.50740	2.50740	**-0.11152**
	setup	**CLK (R)**	0.01860	0.01860	**0.03530**	1.26300	1.26300	**0.13409**	2.50740	2.50740	**0.19095**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02907**	1.26300	1.26300	**-0.14959**	2.50740	2.50740	**-0.25100**
	setup	**CLK (R)**	0.01860	0.01860	**0.05000**	1.26300	1.26300	**0.17265**	2.50740	2.50740	**0.28342**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02059**	1.26300	1.26300	**-0.12069**	2.50740	2.50740	**-0.18594**
	setup	**CLK (R)**	0.01860	0.01860	**0.03500**	1.26300	1.26300	**0.16628**	2.50740	2.50740	**0.25353**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02957**	1.26300	1.26300	**-0.10603**	2.50740	2.50740	**-0.17058**
	setup	**CLK (R)**	0.01860	0.01860	**0.05204**	1.26300	1.26300	**0.12653**	2.50740	2.50740	**0.20156**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.02249**	0.32940	0.06480	**0.03014**	2.50740	0.30000	**0.11113**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.01533**	0.32940	0.06480	**0.02540**	2.50740	0.30000	**0.10394**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.00897**	0.32940	**0.02053**	2.50740	**0.12285**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01026**	0.32940	**0.02255**	2.50740	**0.12485**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.03546**	0.32940	**0.04433**	2.50740	**0.12384**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.04473**	0.32940	**0.06526**	2.50740	**0.14245**

Passive power(pJ) for GATE rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.03546**	0.32940	**0.04433**	2.50740	**0.12384**

Passive power(pJ) for GATE falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.04473**	0.32940	**0.06526**	2.50740	**0.14245**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01617**	0.32940	**0.02477**	2.50740	**0.10838**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.04633**	0.32940	**0.06339**	2.50740	**0.14293**

TIEHI

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Footprint

Cell Name	Area
sg13g2_tiehi	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_HI
sg13g2_tiehi	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tiehi	977.89000	977.89000	977.89000

TIELO

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Footprint

Cell Name	Area
sg13g2_tielo	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_LO
sg13g2_tielo	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tielo	1134.26000	1134.26000	1134.26000

XNOR2

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
sg13g2_xnor2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_xnor2_1	0.00645	0.00565	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	683.60500	1834.59000	2725.61000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-R)	0.01860	0.00100	**0.02728**	0.32940	0.06480	**0.26955**	2.50740	0.30000	**1.34037**
	B->Y (-R)	0.01860	0.00100	**0.02451**	0.32940	0.06480	**0.30510**	2.50740	0.30000	**1.58729**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-F)	0.01860	0.00100	**0.02530**	0.32940	0.06480	**0.23893**	2.50740	0.30000	**1.19871**
	B->Y (-F)	0.01860	0.00100	**0.02122**	0.32940	0.06480	**0.23360**	2.50740	0.30000	**1.18473**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (RR)	B	0.01860	0.00100	**0.03655**	0.32940	0.06480	**0.16428**	2.50740	0.30000	**0.58640**
	A->Y (FR)	!B	0.01860	0.00100	**0.02728**	0.32940	0.06480	**0.26955**	2.50740	0.30000	**1.34037**
	B->Y (RR)	A	0.01860	0.00100	**0.03488**	0.32940	0.06480	**0.17187**	2.50740	0.30000	**0.63743**
	B->Y (FR)	!A	0.01860	0.00100	**0.02451**	0.32940	0.06480	**0.30510**	2.50740	0.30000	**1.58729**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (FF)	B	0.01860	0.00100	**0.03714**	0.32940	0.06480	**0.21472**	2.50740	0.30000	**0.80748**
	A->Y (RF)	!B	0.01860	0.00100	**0.02530**	0.32940	0.06480	**0.23893**	2.50740	0.30000	**1.19871**
	B->Y (FF)	A	0.01860	0.00100	**0.03690**	0.32940	0.06480	**0.20635**	2.50740	0.30000	**0.76289**
	B->Y (RF)	!A	0.01860	0.00100	**0.02122**	0.32940	0.06480	**0.23360**	2.50740	0.30000	**1.18473**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.01526**	0.32940	0.06480	**0.02360**	2.50740	0.30000	**0.10527**
	B	0.01860	0.00100	**0.01568**	0.32940	0.06480	**0.02443**	2.50740	0.30000	**0.10378**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.01340**	0.32940	0.06480	**0.02323**	2.50740	0.30000	**0.10374**
	B	0.01860	0.00100	**0.01414**	0.32940	0.06480	**0.02168**	2.50740	0.30000	**0.09966**

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.01526**	0.32940	0.06480	**0.02360**	2.50740	0.30000	**0.10527**
	A	!B	0.01860	0.00100	**0.00940**	0.32940	0.06480	**0.01223**	2.50740	0.30000	**0.05180**
	B	A	0.01860	0.00100	**0.01568**	0.32940	0.06480	**0.02443**	2.50740	0.30000	**0.10378**
	B	!A	0.01860	0.00100	**0.00610**	0.32940	0.06480	**0.00998**	2.50740	0.30000	**0.04911**

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.01340**	0.32940	0.06480	**0.02323**	2.50740	0.30000	**0.10374**
	A	!B	0.01860	0.00100	**0.00924**	0.32940	0.06480	**0.01197**	2.50740	0.30000	**0.04746**
	B	A	0.01860	0.00100	**0.01414**	0.32940	0.06480	**0.02168**	2.50740	0.30000	**0.09966**
	B	!A	0.01860	0.00100	**0.00741**	0.32940	0.06480	**0.01058**	2.50740	0.30000	**0.04331**

XOR2

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT		OUTPUT
A	B	X
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
sg13g2_xor2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00658	0.00569	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	1083.26000	1605.40000	2318.26000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-R)	0.01860	0.00100	**0.02975**	0.32940	0.06480	**0.27251**	2.50740	0.30000	**1.34917**
	B->X (-R)	0.01860	0.00100	**0.02480**	0.32940	0.06480	**0.26675**	2.50740	0.30000	**1.33421**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-F)	0.01860	0.00100	**0.02373**	0.32940	0.06480	**0.23685**	2.50740	0.30000	**1.19204**
	B->X (-F)	0.01860	0.00100	**0.02183**	0.32940	0.06480	**0.26738**	2.50740	0.30000	**1.38961**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (RR)	!B	0.01860	0.00100	**0.03754**	0.32940	0.06480	**0.25354**	2.50740	0.30000	**0.97705**
	A->X (FR)	B	0.01860	0.00100	**0.02975**	0.32940	0.06480	**0.27251**	2.50740	0.30000	**1.34917**
	B->X (RR)	!A	0.01860	0.00100	**0.03791**	0.32940	0.06480	**0.24356**	2.50740	0.30000	**0.91232**
	B->X (FR)	A	0.01860	0.00100	**0.02480**	0.32940	0.06480	**0.26675**	2.50740	0.30000	**1.33421**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (FF)	!B	0.01860	0.00100	**0.04130**	0.32940	0.06480	**0.15737**	2.50740	0.30000	**0.53871**
	A->X (RF)	B	0.01860	0.00100	**0.02373**	0.32940	0.06480	**0.23685**	2.50740	0.30000	**1.19204**
	B->X (FF)	!A	0.01860	0.00100	**0.03890**	0.32940	0.06480	**0.16691**	2.50740	0.30000	**0.59784**
	B->X (RF)	A	0.01860	0.00100	**0.02183**	0.32940	0.06480	**0.26738**	2.50740	0.30000	**1.38961**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.01311**	0.32940	0.06480	**0.02202**	2.50740	0.30000	**0.10281**
	B	0.01860	0.00100	**0.01391**	0.32940	0.06480	**0.02100**	2.50740	0.30000	**0.09845**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.01675**	0.32940	0.06480	**0.02490**	2.50740	0.30000	**0.10258**
	B	0.01860	0.00100	**0.01553**	0.32940	0.06480	**0.02430**	2.50740	0.30000	**0.09920**

Internal switching power(pJ) to X rising (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.01004**	0.32940	0.06480	**0.01268**	2.50740	0.30000	**0.05225**
	A	!B	0.01860	0.00100	**0.01311**	0.32940	0.06480	**0.02202**	2.50740	0.30000	**0.10281**
	B	A	0.01860	0.00100	**0.00776**	0.32940	0.06480	**0.01069**	2.50740	0.30000	**0.04764**
	B	!A	0.01860	0.00100	**0.01391**	0.32940	0.06480	**0.02100**	2.50740	0.30000	**0.09845**

Internal switching power(pJ) to X falling (conditional):

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.00908**	0.32940	0.06480	**0.01173**	2.50740	0.30000	**0.04762**
	A	!B	0.01860	0.00100	**0.01675**	0.32940	0.06480	**0.02490**	2.50740	0.30000	**0.10258**
	B	A	0.01860	0.00100	**0.00724**	0.32940	0.06480	**0.01055**	2.50740	0.30000	**0.04546**
	B	!A	0.01860	0.00100	**0.01553**	0.32940	0.06480	**0.02430**	2.50740	0.30000	**0.09920**