sg13g2_stdcell_fast_1p65V_m40C Library

Cell Groups
AND2
AND3
AND4
AO21
BTLx
BUx
DECAPx
DFFRRx
DLHQ
DLHRQ
DLHR
DLLRQ
DLLR
DLY1
DLY2
DLY4
EINVINx
FILLx
INx
ITL
KEEPSTATE
MUX2
MUX4

NAND2B1
NAND2
NAND3B1
NOR2
NOR3
NOR4
NP_ANT
OR2
OR3
OR4
SDFRRS
TIE0
TIE1
XNOR2_1
XOR2_1

AND2

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_1	0.00271	0.00266	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	881.89200	1184.66000	1427.31000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.03259**	0.32940	0.06480	**0.17036**	2.50740	0.30000	**0.64333**
	B->X (RR)	0.01860	0.00100	**0.03430**	0.32940	0.06480	**0.16170**	2.50740	0.30000	**0.58708**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.02835**	0.32940	0.06480	**0.14745**	2.50740	0.30000	**0.51074**
	B->X (FF)	0.01860	0.00100	**0.03094**	0.32940	0.06480	**0.15849**	2.50740	0.30000	**0.56617**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A	0.01860	0.00100	**0.01224**	0.32940	0.06480	**0.02166**	2.50740	0.30000	**0.10529**
	B	0.01860	0.00100	**0.01508**	0.32940	0.06480	**0.02358**	2.50740	0.30000	**0.10975**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A	0.01860	0.00100	**0.01071**	0.32940	0.06480	**0.02067**	2.50740	0.30000	**0.10193**
	B	0.01860	0.00100	**0.01103**	0.32940	0.06480	**0.02099**	2.50740	0.30000	**0.10395**

AND3

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	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_1	0.00272	0.00262	0.00264	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	885.76100	1378.33000	2021.46000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.04225**	0.32940	0.06480	**0.19490**	2.50740	0.30000	**0.73219**
	B->X (RR)	0.01860	0.00100	**0.04666**	0.32940	0.06480	**0.18956**	2.50740	0.30000	**0.69398**
	C->X (RR)	0.01860	0.00100	**0.04840**	0.32940	0.06480	**0.17794**	2.50740	0.30000	**0.63133**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.03003**	0.32940	0.06480	**0.14873**	2.50740	0.30000	**0.47227**
	B->X (FF)	0.01860	0.00100	**0.03274**	0.32940	0.06480	**0.15911**	2.50740	0.30000	**0.51906**
	C->X (FF)	0.01860	0.00100	**0.03431**	0.32940	0.06480	**0.16799**	2.50740	0.30000	**0.57478**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A	0.01860	0.00100	**0.01423**	0.32940	0.06480	**0.02237**	2.50740	0.30000	**0.09973**
	B	0.01860	0.00100	**0.01704**	0.32940	0.06480	**0.02387**	2.50740	0.30000	**0.10166**
	C	0.01860	0.00100	**0.01985**	0.32940	0.06480	**0.02597**	2.50740	0.30000	**0.10994**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A	0.01860	0.00100	**0.01095**	0.32940	0.06480	**0.01962**	2.50740	0.30000	**0.09345**
	B	0.01860	0.00100	**0.01143**	0.32940	0.06480	**0.01987**	2.50740	0.30000	**0.09548**
	C	0.01860	0.00100	**0.01166**	0.32940	0.06480	**0.02076**	2.50740	0.30000	**0.10149**

AND4

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_1	0.00228	0.00221	0.00265	0.00266	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	890.08200	1505.62000	2625.88000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.05255**	0.32940	0.06480	**0.21733**	2.50740	0.30000	**0.81338**
	B->X (RR)	0.01860	0.00100	**0.05923**	0.32940	0.06480	**0.21438**	2.50740	0.30000	**0.78464**
	C->X (RR)	0.01860	0.00100	**0.06308**	0.32940	0.06480	**0.20620**	2.50740	0.30000	**0.73464**
	D->X (RR)	0.01860	0.00100	**0.06492**	0.32940	0.06480	**0.19531**	2.50740	0.30000	**0.66925**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.03138**	0.32940	0.06480	**0.14889**	2.50740	0.30000	**0.43741**
	B->X (FF)	0.01860	0.00100	**0.03412**	0.32940	0.06480	**0.15879**	2.50740	0.30000	**0.48003**
	C->X (FF)	0.01860	0.00100	**0.03590**	0.32940	0.06480	**0.16705**	2.50740	0.30000	**0.52641**
	D->X (FF)	0.01860	0.00100	**0.03707**	0.32940	0.06480	**0.17419**	2.50740	0.30000	**0.57909**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A	0.01860	0.00100	**0.01707**	0.32940	0.06480	**0.02341**	2.50740	0.30000	**0.09388**
	B	0.01860	0.00100	**0.02006**	0.32940	0.06480	**0.02560**	2.50740	0.30000	**0.09698**
	C	0.01860	0.00100	**0.02141**	0.32940	0.06480	**0.02609**	2.50740	0.30000	**0.10367**
	D	0.01860	0.00100	**0.02113**	0.32940	0.06480	**0.02558**	2.50740	0.30000	**0.10652**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A	0.01860	0.00100	**0.00953**	0.32940	0.06480	**0.01719**	2.50740	0.30000	**0.08553**
	B	0.01860	0.00100	**0.01010**	0.32940	0.06480	**0.01759**	2.50740	0.30000	**0.08745**
	C	0.01860	0.00100	**0.01204**	0.32940	0.06480	**0.01984**	2.50740	0.30000	**0.09398**
	D	0.01860	0.00100	**0.01136**	0.32940	0.06480	**0.01964**	2.50740	0.30000	**0.09968**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00118**	0.32940	**-0.00117**	2.50740	**-0.00116**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00227**	0.32940	**0.00229**	2.50740	**0.00229**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**-0.00118**	0.32940	**-0.00117**	2.50740	**-0.00116**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(B * C * !D) + (B * !C)	0.01860	**0.00227**	0.32940	**0.00229**	2.50740	**0.00229**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00113**	0.32940	**-0.00113**	2.50740	**-0.00113**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00190**	0.32940	**0.00193**	2.50740	**0.00193**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * C * !D) + (A * !C)	0.01860	**-0.00113**	0.32940	**-0.00113**	2.50740	**-0.00113**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * C * !D) + (A * !C)	0.01860	**0.00190**	0.32940	**0.00193**	2.50740	**0.00193**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00030**	0.32940	**0.00030**	2.50740	**0.00031**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00015**	0.32940	**0.00016**	2.50740	**0.00016**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00030**	0.32940	**0.00030**	2.50740	**0.00031**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00015**	0.32940	**0.00016**	2.50740	**0.00016**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00335**	0.32940	**0.00332**	2.50740	**0.00333**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00109**	0.32940	**0.00092**	2.50740	**0.00085**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00335**	0.32940	**0.00332**	2.50740	**0.00333**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00109**	0.32940	**0.00092**	2.50740	**0.00085**

AO21

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_1	0.00293	0.00304	0.00257	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	1094.59000	1428.42000	1866.60000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.03996**	0.32940	0.06480	**0.18866**	2.50740	0.30000	**0.68760**
	A2->X (RR)	0.01860	0.00100	**0.04146**	0.32940	0.06480	**0.17706**	2.50740	0.30000	**0.62736**
	B1->X (RR)	0.01860	0.00100	**0.02713**	0.32940	0.06480	**0.15540**	2.50740	0.30000	**0.52199**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.04236**	0.32940	0.06480	**0.16058**	2.50740	0.30000	**0.53054**
	A2->X (FF)	0.01860	0.00100	**0.04695**	0.32940	0.06480	**0.17128**	2.50740	0.30000	**0.58537**
	B1->X (FF)	0.01860	0.00100	**0.04238**	0.32940	0.06480	**0.18402**	2.50740	0.30000	**0.66860**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.02713**	0.32940	0.06480	**0.15540**	2.50740	0.30000	**0.52199**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.02571**	0.32940	0.06480	**0.14728**	2.50740	0.30000	**0.50030**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.04238**	0.32940	0.06480	**0.18402**	2.50740	0.30000	**0.66860**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.03723**	0.32940	0.06480	**0.17311**	2.50740	0.30000	**0.64751**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01369**	0.32940	0.06480	**0.02227**	2.50740	0.30000	**0.10516**
	A2	0.01860	0.00100	**0.01663**	0.32940	0.06480	**0.02423**	2.50740	0.30000	**0.10943**
	B1	0.01860	0.00100	**0.00995**	0.32940	0.06480	**0.02027**	2.50740	0.30000	**0.10878**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01579**	0.32940	0.06480	**0.02338**	2.50740	0.30000	**0.10571**
	A2	0.01860	0.00100	**0.01604**	0.32940	0.06480	**0.02367**	2.50740	0.30000	**0.10761**
	B1	0.01860	0.00100	**0.01118**	0.32940	0.06480	**0.02154**	2.50740	0.30000	**0.10456**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.01294**	0.32940	0.06480	**0.02305**	2.50740	0.30000	**0.11094**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00995**	0.32940	0.06480	**0.02027**	2.50740	0.30000	**0.10878**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.01163**	0.32940	0.06480	**0.02135**	2.50740	0.30000	**0.10456**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01118**	0.32940	0.06480	**0.02154**	2.50740	0.30000	**0.10456**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**-0.00008**	0.32940	**-0.00005**	2.50740	**-0.00003**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00052**	0.32940	**0.00050**	2.50740	**0.00050**

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**0.00015**	0.32940	**-0.00011**	2.50740	**-0.00019**
	(!A2 * B1)	0.01860	**-0.00008**	0.32940	**-0.00005**	2.50740	**-0.00003**

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**0.00101**	0.32940	**0.00098**	2.50740	**0.00098**
	(!A2 * B1)	0.01860	**0.00052**	0.32940	**0.00050**	2.50740	**0.00050**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00007**	0.32940	**0.00006**	2.50740	**0.00007**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00040**	0.32940	**0.00041**	2.50740	**0.00041**

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00026**	0.32940	**-0.00001**	2.50740	**-0.00010**
	(!A1 * B1)	0.01860	**0.00007**	0.32940	**0.00006**	2.50740	**0.00007**

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00091**	0.32940	**0.00089**	2.50740	**0.00089**
	(!A1 * B1)	0.01860	**0.00040**	0.32940	**0.00041**	2.50740	**0.00041**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00159**	0.32940	**0.00163**	2.50740	**0.00163**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00101**	0.32940	**0.00103**	2.50740	**0.00105**

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00159**	0.32940	**0.00163**	2.50740	**0.00163**

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00101**	0.32940	**0.00103**	2.50740	**0.00105**

BTLx

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_8	45.36000
sg13g2_ebufn_4	25.40160
sg13g2_ebufn_2	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_8	0.00640	0.01804	2.40000
sg13g2_ebufn_4	0.00331	0.01094	1.20000
sg13g2_ebufn_2	0.00285	0.00667	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	1242.25000	6703.48000	13150.90000
sg13g2_ebufn_4	985.89300	3586.28000	6679.75000
sg13g2_ebufn_2	819.86900	2120.06000	3500.29000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.02061	**0.03554**	0.32940	0.53801	**0.27793**	2.50740	2.41961	**1.05338**
	TE_B->Z (RR)	0.01860	0.02061	**0.03922**	0.32940	0.53801	**0.09900**	2.50740	2.41961	**0.21148**
	TE_B->Z (FR)	0.01860	0.02061	**0.01882**	0.32940	0.53801	**0.26103**	2.50740	2.41961	**1.26713**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01094	**0.03603**	0.32940	0.26914	**0.27668**	2.50740	1.20994	**1.04451**
	TE_B->Z (RR)	0.01860	0.01094	**0.03023**	0.32940	0.26914	**0.07191**	2.50740	1.20994	**0.14243**
	TE_B->Z (FR)	0.01860	0.01094	**0.01816**	0.32940	0.26914	**0.25842**	2.50740	1.20994	**1.25768**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00605	**0.03124**	0.32940	0.13465	**0.25563**	2.50740	0.60505	**1.01144**
	TE_B->Z (RR)	0.01860	0.00605	**0.02605**	0.32940	0.13465	**0.05820**	2.50740	0.60505	**0.11661**
	TE_B->Z (FR)	0.01860	0.00605	**0.01846**	0.32940	0.13465	**0.25815**	2.50740	0.60505	**1.26130**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02967	**0.04301**	0.32940	0.54707	**0.24763**	2.50740	2.42867	**0.89585**
	TE_B->Z (RF)	0.01860	0.02967	**0.01757**	0.32940	0.54707	**-0.22207**	2.50740	2.42867	**-1.90858**
	TE_B->Z (FF)	0.01860	0.02967	**0.03884**	0.32940	0.54707	**0.19868**	2.50740	2.42867	**0.64787**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01554	**0.04384**	0.32940	0.27374	**0.24833**	2.50740	1.21454	**0.89614**
	TE_B->Z (RF)	0.01860	0.01554	**0.01462**	0.32940	0.27374	**-0.22147**	2.50740	1.21454	**-1.90782**
	TE_B->Z (FF)	0.01860	0.01554	**0.03006**	0.32940	0.27374	**0.16882**	2.50740	1.21454	**0.58065**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00841	**0.03388**	0.32940	0.13701	**0.22037**	2.50740	0.60741	**0.83194**
	TE_B->Z (RF)	0.01860	0.00841	**0.00708**	0.32940	0.13701	**-0.23049**	2.50740	0.60741	**-1.91701**
	TE_B->Z (FF)	0.01860	0.00841	**0.02596**	0.32940	0.13701	**0.14858**	2.50740	0.60741	**0.53136**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.02061	**0.07450**	0.32940	0.53801	**0.08509**	2.50740	2.41961	**0.10396**
	TE_B	0.01860	0.02061	**0.00911**	0.32940	0.53801	**0.00497**	2.50740	2.41961	**0.01023**
sg13g2_ebufn_4	A	0.01860	0.01094	**0.03766**	0.32940	0.26914	**0.04198**	2.50740	1.20994	**0.04528**
	TE_B	0.01860	0.01094	**0.00443**	0.32940	0.26914	**0.00242**	2.50740	1.20994	**-0.00158**
sg13g2_ebufn_2	A	0.01860	0.00605	**0.01902**	0.32940	0.13465	**0.02018**	2.50740	0.60505	**0.02337**
	TE_B	0.01860	0.00605	**0.00228**	0.32940	0.13465	**0.00136**	2.50740	0.60505	**0.00087**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.02967	**0.07477**	0.32940	0.54707	**0.07074**	2.50740	2.42867	**0.05898**
	TE_B	0.01860	0.02967	**-0.00060**	0.32940	0.54707	**-0.00383**	2.50740	2.42867	**0.00656**
sg13g2_ebufn_4	A	0.01860	0.01554	**0.03771**	0.32940	0.27374	**0.03566**	2.50740	1.21454	**0.03052**
	TE_B	0.01860	0.01554	**-0.00037**	0.32940	0.27374	**-0.00098**	2.50740	1.21454	**0.00158**
sg13g2_ebufn_2	A	0.01860	0.00841	**0.01750**	0.32940	0.13701	**0.01739**	2.50740	0.60741	**0.01719**
	TE_B	0.01860	0.00841	**-0.00014**	0.32940	0.13701	**-0.00035**	2.50740	0.60741	**-0.00079**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01598**	0.32940	**0.04241**	2.50740	**0.27605**
sg13g2_ebufn_4	0.01860	**0.00869**	0.32940	**0.02177**	2.50740	**0.13844**
sg13g2_ebufn_2	0.01860	**0.00545**	0.32940	**0.01764**	2.50740	**0.12068**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01400**	0.32940	**0.04128**	2.50740	**0.27176**
sg13g2_ebufn_4	0.01860	**0.00730**	0.32940	**0.02081**	2.50740	**0.13601**
sg13g2_ebufn_2	0.01860	**0.00501**	0.32940	**0.01747**	2.50740	**0.11882**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**-0.00640**	0.32940	**0.00217**	2.50740	**0.11401**
sg13g2_ebufn_4	0.01860	**-0.00105**	0.32940	**0.00996**	2.50740	**0.12535**
sg13g2_ebufn_2	0.01860	**0.00055**	0.32940	**0.01163**	2.50740	**0.11397**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.10495**	0.32940	**0.11845**	2.50740	**0.22926**
sg13g2_ebufn_4	0.01860	**0.05414**	0.32940	**0.06807**	2.50740	**0.18190**
sg13g2_ebufn_2	0.01860	**0.02830**	0.32940	**0.04099**	2.50740	**0.14155**

BUx

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_16	45.36000
sg13g2_buf_8	23.58720
sg13g2_buf_4	14.51520
sg13g2_buf_2	9.07200
sg13g2_buf_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_16	0.01917	4.80000
sg13g2_buf_8	0.00957	2.40000
sg13g2_buf_4	0.00407	1.20000
sg13g2_buf_2	0.00283	0.60000
sg13g2_buf_1	0.00244	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	7714.52000	10319.40000	12924.20000
sg13g2_buf_8	3857.27000	5159.69000	6462.11000
sg13g2_buf_4	1614.28000	2412.17000	3210.06000
sg13g2_buf_2	1028.62000	1336.10000	1643.58000
sg13g2_buf_1	711.84600	797.51900	883.19200

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.02985**	0.32940	1.03680	**0.17542**	2.50740	4.80000	**0.62573**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.02930**	0.32940	0.51840	**0.17419**	2.50740	2.40000	**0.62380**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.03633**	0.32940	0.25920	**0.19999**	2.50740	1.20000	**0.74725**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.02880**	0.32940	0.12960	**0.16984**	2.50740	0.60000	**0.61746**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.02562**	0.32940	0.06480	**0.15398**	2.50740	0.30000	**0.58131**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.03254**	0.32940	1.03680	**0.17097**	2.50740	4.80000	**0.58652**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.03191**	0.32940	0.51840	**0.17022**	2.50740	2.40000	**0.58652**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.03140**	0.32940	0.25920	**0.16101**	2.50740	1.20000	**0.49342**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.03053**	0.32940	0.12960	**0.16104**	2.50740	0.60000	**0.55626**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.02689**	0.32940	0.06480	**0.14521**	2.50740	0.30000	**0.53037**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.15571**	0.32940	1.03680	**0.23172**	2.50740	4.80000	**0.93895**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.07540**	0.32940	0.51840	**0.11548**	2.50740	2.40000	**0.46973**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.03809**	0.32940	0.25920	**0.05325**	2.50740	1.20000	**0.19869**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01910**	0.32940	0.12960	**0.03007**	2.50740	0.60000	**0.13061**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.01062**	0.32940	0.06480	**0.02122**	2.50740	0.30000	**0.10621**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.15188**	0.32940	1.03680	**0.23150**	2.50740	4.80000	**0.92210**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.07468**	0.32940	0.51840	**0.11528**	2.50740	2.40000	**0.45765**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.03723**	0.32940	0.25920	**0.05265**	2.50740	1.20000	**0.19483**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01884**	0.32940	0.12960	**0.02983**	2.50740	0.60000	**0.12922**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.01076**	0.32940	0.06480	**0.02118**	2.50740	0.30000	**0.10434**

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	5984.42000	5984.42000	5984.42000
sg13g2_decap_8	11968.80000	11968.80000	11968.80000

DFFRRx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_2	54.43200
sg13g2_dfrbp_1	47.17440

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	CLK	Q	Q_N
sg13g2_dfrbp_2	0.00152	0.00553	0.00312	0.60000	0.60000
sg13g2_dfrbp_1	0.00159	0.00606	0.00293	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	4783.37000	5625.49000	6222.82000
sg13g2_dfrbp_1	3675.32000	4489.22000	5112.29000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.10923**	0.32940	0.12960	**0.24055**	2.50740	0.60000	**0.65077**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.08591**	0.32940	0.06480	**0.21598**	2.50740	0.30000	**0.59121**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.09802**	0.32940	0.12960	**0.21810**	2.50740	0.60000	**0.55582**
	RESET_B->Q (FF)	0.01860	0.00100	**0.12934**	0.32940	0.12960	**0.28212**	2.50740	0.60000	**0.76097**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.08338**	0.32940	0.06480	**0.20029**	2.50740	0.30000	**0.51205**
	RESET_B->Q (FF)	0.01860	0.00100	**0.11118**	0.32940	0.06480	**0.26203**	2.50740	0.30000	**0.73264**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.06584**	0.32940	0.12960	**0.21488**	2.50740	0.60000	**0.59684**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.09776**	0.32940	0.12960	**0.27816**	2.50740	0.60000	**0.80214**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.06388**	0.32940	0.06480	**0.20473**	2.50740	0.30000	**0.56143**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.09191**	0.32940	0.06480	**0.26530**	2.50740	0.30000	**0.78210**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.07185**	0.32940	0.12960	**0.22306**	2.50740	0.60000	**0.59078**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.06513**	0.32940	0.06480	**0.20374**	2.50740	0.30000	**0.54169**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	hold	CLK (R)	0.01860	0.01860	**-0.02445**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.14758**
	setup	CLK (R)	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.13492**	2.50740	2.50740	**0.18004**
sg13g2_dfrbp_1	hold	CLK (R)	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**-0.11603**	2.50740	2.50740	**-0.16824**
	setup	CLK (R)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.14841**	2.50740	2.50740	**0.20956**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	hold	CLK (R)	0.01860	0.01860	**-0.01223**	1.26300	1.26300	**-0.10794**	2.50740	2.50740	**-0.17709**
	setup	CLK (R)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.15651**	2.50740	2.50740	**0.22727**
sg13g2_dfrbp_1	hold	CLK (R)	0.01860	0.01860	**-0.01467**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.16234**
	setup	CLK (R)	0.01860	0.01860	**0.04401**	1.26300	1.26300	**0.16460**	2.50740	2.50740	**0.24793**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	recovery	CLK (R)	0.01860	0.01860	**0.05624**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.30401**
	removal	CLK (R)	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.29515**
sg13g2_dfrbp_1	recovery	CLK (R)	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.33943**
	removal	CLK (R)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.31877**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dfrbp_2	-	3.3435
sg13g2_dfrbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_dfrbp_2	3.3435	3.3435
sg13g2_dfrbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.06040**	0.32940	0.12960	**0.23045**	2.50740	0.60000	**0.87816**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03783**	0.32940	0.06480	**0.12541**	2.50740	0.30000	**0.45630**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.05747**	0.32940	0.12960	**0.23181**	2.50740	0.60000	**0.87810**
	RESET_B	0.01860	0.00100	**0.06152**	0.32940	0.12960	**0.24111**	2.50740	0.60000	**0.93458**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03617**	0.32940	0.06480	**0.12396**	2.50740	0.30000	**0.45172**
	RESET_B	0.01860	0.00100	**0.03965**	0.32940	0.06480	**0.13455**	2.50740	0.30000	**0.50563**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.05754**	0.32940	0.12960	**0.23169**	2.50740	0.60000	**0.87678**
	RESET_B	0.01860	0.00100	**0.06148**	0.32940	0.12960	**0.24260**	2.50740	0.60000	**0.93690**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03619**	0.32940	0.06480	**0.12436**	2.50740	0.30000	**0.45290**
	RESET_B	0.01860	0.00100	**0.03960**	0.32940	0.06480	**0.13538**	2.50740	0.30000	**0.50826**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.06044**	0.32940	0.12960	**0.23112**	2.50740	0.60000	**0.88287**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03785**	0.32940	0.06480	**0.12472**	2.50740	0.30000	**0.45722**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00282**	0.32940	**0.00833**	2.50740	**0.05455**
sg13g2_dfrbp_1	0.01860	**0.00294**	0.32940	**0.00838**	2.50740	**0.05457**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00254**	0.32940	**0.00818**	2.50740	**0.05465**
sg13g2_dfrbp_1	0.01860	**0.00272**	0.32940	**0.00832**	2.50740	**0.05474**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00282**	0.32940	**0.00833**	2.50740	**0.05455**
	(!CLK * RESET_B)	0.01860	**0.02198**	0.32940	**0.02823**	2.50740	**0.08489**
	(!CLK * !RESET_B)	0.01860	**-0.00046**	0.32940	**-0.00046**	2.50740	**-0.00046**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00294**	0.32940	**0.00838**	2.50740	**0.05457**
	(!CLK * RESET_B)	0.01860	**0.01939**	0.32940	**0.02575**	2.50740	**0.08189**
	(!CLK * !RESET_B)	0.01860	**-0.00032**	0.32940	**-0.00032**	2.50740	**-0.00032**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00254**	0.32940	**0.00818**	2.50740	**0.05465**
	(!CLK * RESET_B)	0.01860	**0.01802**	0.32940	**0.02462**	2.50740	**0.08148**
	(!CLK * !RESET_B)	0.01860	**0.00093**	0.32940	**0.00095**	2.50740	**0.00095**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00272**	0.32940	**0.00832**	2.50740	**0.05474**
	(!CLK * RESET_B)	0.01860	**0.01662**	0.32940	**0.02319**	2.50740	**0.07948**
	(!CLK * !RESET_B)	0.01860	**0.00083**	0.32940	**0.00086**	2.50740	**0.00086**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00711**	0.32940	**0.01181**	2.50740	**0.05874**
sg13g2_dfrbp_1	0.01860	**0.00783**	0.32940	**0.01244**	2.50740	**0.05934**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01728**	0.32940	**0.02449**	2.50740	**0.09968**
sg13g2_dfrbp_1	0.01860	**0.01527**	0.32940	**0.02246**	2.50740	**0.09724**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00711**	0.32940	**0.01181**	2.50740	**0.05874**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00244**	0.32940	**0.00238**	2.50740	**0.00238**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02656**	0.32940	**0.03355**	2.50740	**0.10879**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00253**	0.32940	**0.00246**	2.50740	**0.00247**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00783**	0.32940	**0.01244**	2.50740	**0.05934**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00316**	0.32940	**0.00310**	2.50740	**0.00310**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02463**	0.32940	**0.03176**	2.50740	**0.10662**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00327**	0.32940	**0.00321**	2.50740	**0.00320**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.07860**	0.32940	**0.09464**	2.50740	**0.22258**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00115**	0.32940	**-0.00141**	2.50740	**-0.00150**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01728**	0.32940	**0.02449**	2.50740	**0.09968**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00139**	0.32940	**-0.00154**	2.50740	**-0.00160**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.05416**	0.32940	**0.07000**	2.50740	**0.19556**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00186**	0.32940	**-0.00212**	2.50740	**-0.00221**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01527**	0.32940	**0.02246**	2.50740	**0.09724**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00207**	0.32940	**-0.00225**	2.50740	**-0.00232**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.02030**	0.32940	**0.03445**	2.50740	**0.16046**
sg13g2_dfrbp_1	0.01860	**0.01982**	0.32940	**0.03295**	2.50740	**0.15047**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.03816**	0.32940	**0.05317**	2.50740	**0.18183**
sg13g2_dfrbp_1	0.01860	**0.03433**	0.32940	**0.04841**	2.50740	**0.17003**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.02030**	0.32940	**0.03445**	2.50740	**0.16046**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.02122**	0.32940	**0.03527**	2.50740	**0.16113**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01987**	0.32940	**0.03400**	2.50740	**0.15988**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.02127**	0.32940	**0.03534**	2.50740	**0.16113**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.02035**	0.32940	**0.03355**	2.50740	**0.15112**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01979**	0.32940	**0.03293**	2.50740	**0.15045**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01933**	0.32940	**0.03251**	2.50740	**0.15006**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01982**	0.32940	**0.03295**	2.50740	**0.15047**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.03816**	0.32940	**0.05319**	2.50740	**0.18193**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03816**	0.32940	**0.05317**	2.50740	**0.18183**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01970**	0.32940	**0.03404**	2.50740	**0.15789**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.02062**	0.32940	**0.11075**	2.50740	**0.23444**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01965**	0.32940	**0.03405**	2.50740	**0.15790**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01970**	0.32940	**0.03404**	2.50740	**0.15789**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.03435**	0.32940	**0.04844**	2.50740	**0.17016**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03433**	0.32940	**0.04841**	2.50740	**0.17003**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01867**	0.32940	**0.03214**	2.50740	**0.14881**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.01825**	0.32940	**0.08676**	2.50740	**0.20333**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01863**	0.32940	**0.03219**	2.50740	**0.14886**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01868**	0.32940	**0.03214**	2.50740	**0.14880**

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	0.00243	0.00252	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	2628.79000	3037.34000	3638.71000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.08149**	0.32940	0.06480	**0.20633**	2.50740	0.30000	**0.58615**
	GATE->Q (RR)	0.01860	0.00100	**0.06932**	0.32940	0.06480	**0.19285**	2.50740	0.30000	**0.51721**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.07376**	0.32940	0.06480	**0.18891**	2.50740	0.30000	**0.52502**
	GATE->Q (RF)	0.01860	0.00100	**0.07501**	0.32940	0.06480	**0.18571**	2.50740	0.30000	**0.45839**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.05313**
	setup	GATE (F)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.11063**	2.50740	2.50740	**0.12987**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**0.03238**	2.50740	2.50740	**0.07674**
	setup	GATE (F)	0.01860	0.01860	**0.02201**	1.26300	1.26300	**-0.02698**	2.50740	2.50740	**-0.07084**

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.02808**	0.32940	0.06480	**0.02894**	2.50740	0.30000	**0.03519**
	GATE	0.01860	0.00100	**0.02348**	0.32940	0.06480	**0.02481**	2.50740	0.30000	**0.03365**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.02921**	0.32940	0.06480	**0.03018**	2.50740	0.30000	**0.03646**
	GATE	0.01860	0.00100	**0.02536**	0.32940	0.06480	**0.02677**	2.50740	0.30000	**0.02711**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00697**	0.32940	**0.01689**	2.50740	**0.10307**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00682**	0.32940	**0.01691**	2.50740	**0.10183**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00683**	0.32940	**0.01668**	2.50740	**0.10292**
	(!GATE * !Q)	0.01860	**0.00697**	0.32940	**0.01689**	2.50740	**0.10307**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00676**	0.32940	**0.01695**	2.50740	**0.10190**
	(!GATE * !Q)	0.01860	**0.00682**	0.32940	**0.01691**	2.50740	**0.10183**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.01511**	0.32940	**0.02760**	2.50740	**0.13426**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.01686**	0.32940	**0.04089**	2.50740	**0.14805**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.01511**	0.32940	**0.02760**	2.50740	**0.13426**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.01686**	0.32940	**0.04089**	2.50740	**0.14805**

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	RESET_B	GATE	Q
x	0	x	0
x	1	0	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	RESET_B	GATE	Q
sg13g2_dlhrq_1	0.00226	0.00307	0.00241	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	2977.31000	3583.86000	4046.30000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.08570**	0.32940	0.06480	**0.21221**	2.50740	0.30000	**0.58789**
	GATE->Q (RR)	0.01860	0.00100	**0.07653**	0.32940	0.06480	**0.20237**	2.50740	0.30000	**0.52401**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.07658**	0.32940	0.06480	**0.19210**	2.50740	0.30000	**0.53041**
	GATE->Q (RF)	0.01860	0.00100	**0.07788**	0.32940	0.06480	**0.18981**	2.50740	0.30000	**0.46329**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03191**	0.32940	0.06480	**0.16308**	2.50740	0.30000	**0.57255**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.03912**	1.26300	1.26300	**-0.05936**	2.50740	2.50740	**-0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.09714**	2.50740	2.50740	**0.11511**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**0.02968**	2.50740	2.50740	**0.07674**
	setup	GATE (F)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**-0.02429**	2.50740	2.50740	**-0.07084**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.00734**	1.26300	1.26300	**-0.09174**	2.50740	2.50740	**-0.15348**
	removal	GATE (F)	0.01860	0.01860	**0.01223**	1.26300	1.26300	**0.10524**	2.50740	2.50740	**0.17709**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhrq_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhrq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00317**	0.32940	0.06480	**0.00295**	2.50740	0.30000	**0.00565**
	GATE	0.01860	0.00100	**0.02359**	0.32940	0.06480	**0.02464**	2.50740	0.30000	**0.03673**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00311**	0.32940	0.06480	**-0.00295**	2.50740	0.30000	**-0.00565**
	GATE	0.01860	0.00100	**0.02311**	0.32940	0.06480	**0.02484**	2.50740	0.30000	**0.02490**
	RESET_B	0.01860	0.00100	**0.01297**	0.32940	0.06480	**0.02495**	2.50740	0.30000	**0.12364**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.03182**	0.32940	**0.04226**	2.50740	**0.13228**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.03000**	0.32940	**0.05593**	2.50740	**0.14586**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00674**	0.32940	**0.01670**	2.50740	**0.10286**
	!RESET_B	0.01860	**0.03182**	0.32940	**0.04226**	2.50740	**0.13228**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00642**	0.32940	**0.01658**	2.50740	**0.10149**
	!RESET_B	0.01860	**0.03000**	0.32940	**0.05593**	2.50740	**0.14586**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00013**	0.32940	**0.00008**	2.50740	**0.00008**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00068**	0.32940	**0.00053**	2.50740	**0.00048**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00013**	0.32940	**0.00008**	2.50740	**0.00008**
	(!D * !GATE * !Q)	0.01860	**0.00013**	0.32940	**0.00008**	2.50740	**0.00008**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00068**	0.32940	**0.00053**	2.50740	**0.00048**
	(!D * !GATE * !Q)	0.01860	**0.00068**	0.32940	**0.00053**	2.50740	**0.00048**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01568**	0.32940	**0.02810**	2.50740	**0.13457**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01734**	0.32940	**0.04065**	2.50740	**0.14770**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.02062**	0.32940	**0.03380**	2.50740	**0.14863**
	(!D * !RESET_B * !Q)	0.01860	**0.01568**	0.32940	**0.02810**	2.50740	**0.13457**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.02235**	0.32940	**0.03652**	2.50740	**0.15022**
	(!D * RESET_B * !Q)	0.01860	**0.01734**	0.32940	**0.04065**	2.50740	**0.14770**
	(!D * !RESET_B * !Q)	0.01860	**0.01735**	0.32940	**0.04068**	2.50740	**0.14772**

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	RESET_B	GATE	Q	Q_N
x	0	x	0	1
x	1	0	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	RESET_B	GATE	Q	Q_N
sg13g2_dlhr_1	0.00229	0.00324	0.00250	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	3709.30000	4395.05000	4779.23000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.09302**	0.32940	0.06480	**0.22330**	2.50740	0.30000	**0.59865**
	GATE->Q (RR)	0.01860	0.00100	**0.08427**	0.32940	0.06480	**0.21417**	2.50740	0.30000	**0.53629**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.07975**	0.32940	0.06480	**0.19649**	2.50740	0.30000	**0.53221**
	GATE->Q (RF)	0.01860	0.00100	**0.08098**	0.32940	0.06480	**0.19414**	2.50740	0.30000	**0.46301**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03440**	0.32940	0.06480	**0.17154**	2.50740	0.30000	**0.57385**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.09698**	0.32940	0.06480	**0.21985**	2.50740	0.30000	**0.60164**
	GATE->Q_N (RR)	0.01860	0.00100	**0.09825**	0.32940	0.06480	**0.21770**	2.50740	0.30000	**0.53272**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.05159**	0.32940	0.06480	**0.18910**	2.50740	0.30000	**0.58419**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.11258**	0.32940	0.06480	**0.22197**	2.50740	0.30000	**0.55082**
	GATE->Q_N (RF)	0.01860	0.00100	**0.10369**	0.32940	0.06480	**0.21276**	2.50740	0.30000	**0.48841**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.05936**	2.50740	2.50740	**-0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.09444**	2.50740	2.50740	**0.10921**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**0.02968**	2.50740	2.50740	**0.07674**
	setup	GATE (F)	0.01860	0.01860	**0.02690**	1.26300	1.26300	**-0.02429**	2.50740	2.50740	**-0.07084**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
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	**0.07555**	2.50740	2.50740	**0.12692**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhr_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhr_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00979**	0.32940	0.06480	**0.01003**	2.50740	0.30000	**0.01144**
	GATE	0.01860	0.00100	**0.01978**	0.32940	0.06480	**0.02059**	2.50740	0.30000	**0.02800**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00924**	0.32940	0.06480	**0.00234**	2.50740	0.30000	**0.00324**
	GATE	0.01860	0.00100	**0.01939**	0.32940	0.06480	**0.02024**	2.50740	0.30000	**0.02188**
	RESET_B	0.01860	0.00100	**0.01394**	0.32940	0.06480	**0.02079**	2.50740	0.30000	**0.07875**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00930**	0.32940	0.06480	**0.00233**	2.50740	0.30000	**0.00431**
	GATE	0.01860	0.00100	**0.01941**	0.32940	0.06480	**0.02069**	2.50740	0.30000	**0.02229**
	RESET_B	0.01860	0.00100	**0.01398**	0.32940	0.06480	**0.02116**	2.50740	0.30000	**0.07904**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00980**	0.32940	0.06480	**0.00977**	2.50740	0.30000	**0.01230**
	GATE	0.01860	0.00100	**0.01979**	0.32940	0.06480	**0.02039**	2.50740	0.30000	**0.02618**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.03121**	0.32940	**0.04172**	2.50740	**0.13180**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.02990**	0.32940	**0.05553**	2.50740	**0.14552**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00670**	0.32940	**0.01676**	2.50740	**0.10307**
	!RESET_B	0.01860	**0.03121**	0.32940	**0.04172**	2.50740	**0.13180**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00607**	0.32940	**0.01633**	2.50740	**0.10140**
	!RESET_B	0.01860	**0.02990**	0.32940	**0.05553**	2.50740	**0.14552**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**-0.00012**	0.32940	**-0.00019**	2.50740	**-0.00019**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00092**	0.32940	**0.00079**	2.50740	**0.00074**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**-0.00012**	0.32940	**-0.00019**	2.50740	**-0.00019**
	(!D * !GATE * !Q)	0.01860	**-0.00012**	0.32940	**-0.00019**	2.50740	**-0.00019**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00092**	0.32940	**0.00079**	2.50740	**0.00074**
	(!D * !GATE * !Q)	0.01860	**0.00092**	0.32940	**0.00079**	2.50740	**0.00074**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01514**	0.32940	**0.02754**	2.50740	**0.13424**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01777**	0.32940	**0.04033**	2.50740	**0.14755**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.02011**	0.32940	**0.03331**	2.50740	**0.14847**
	(!D * !RESET_B * !Q)	0.01860	**0.01514**	0.32940	**0.02754**	2.50740	**0.13424**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.02298**	0.32940	**0.03715**	2.50740	**0.15095**
	(!D * RESET_B * !Q)	0.01860	**0.01777**	0.32940	**0.04033**	2.50740	**0.14755**
	(!D * !RESET_B * !Q)	0.01860	**0.01779**	0.32940	**0.04036**	2.50740	**0.14757**

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	RESET_B	GATE_N	Q
x	0	x	0
0	1	0	0
x	1	1	IQ
1	1	0	1

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	RESET_B	GATE_N	Q
sg13g2_dllrq_1	0.00225	0.00311	0.00238	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	2977.02000	3585.17000	4046.29000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.08553**	0.32940	0.06480	**0.21204**	2.50740	0.30000	**0.58833**
	GATE_N->Q (FR)	0.01860	0.00100	**0.09306**	0.32940	0.06480	**0.23341**	2.50740	0.30000	**0.68219**
	RESET_B->Q (RR)	0.01860	0.00100	**0.03947**	0.32940	0.06480	**0.16940**	2.50740	0.30000	**0.60604**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.07616**	0.32940	0.06480	**0.19031**	2.50740	0.30000	**0.52455**
	GATE_N->Q (FF)	0.01860	0.00100	**0.07148**	0.32940	0.06480	**0.20266**	2.50740	0.30000	**0.61721**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03217**	0.32940	0.06480	**0.16277**	2.50740	0.30000	**0.57310**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.05667**	2.50740	2.50740	**-0.08855**
	setup	GATE_N (R)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**0.06206**	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)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.03912**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.20366**
	setup	GATE_N (R)	0.01860	0.01860	**0.04401**	1.26300	1.26300	**0.18349**	2.50740	2.50740	**0.27449**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.01467**	1.26300	1.26300	**-0.01619**	2.50740	2.50740	**0.00590**
	removal	GATE_N (R)	0.01860	0.01860	**0.02201**	1.26300	1.26300	**0.02698**	2.50740	2.50740	**0.00590**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.01309**	0.32940	0.06480	**0.01403**	2.50740	0.30000	**0.01972**
	GATE_N	0.01860	0.00100	**0.02339**	0.32940	0.06480	**0.01345**	2.50740	0.30000	**0.01210**
	RESET_B	0.01860	0.00100	**0.01877**	0.32940	0.06480	**0.02803**	2.50740	0.30000	**0.12856**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.01857**	0.32940	0.06480	**0.00022**	2.50740	0.30000	**0.00167**
	GATE_N	0.01860	0.00100	**0.02052**	0.32940	0.06480	**0.01170**	2.50740	0.30000	**0.01991**
	RESET_B	0.01860	0.00100	**0.01324**	0.32940	0.06480	**0.02527**	2.50740	0.30000	**0.12625**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.02185**	0.32940	**0.03133**	2.50740	**0.11752**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01465**	0.32940	**0.04420**	2.50740	**0.13424**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00671**	0.32940	**0.01673**	2.50740	**0.10304**
	!RESET_B	0.01860	**0.02185**	0.32940	**0.03133**	2.50740	**0.11752**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00621**	0.32940	**0.01643**	2.50740	**0.10154**
	!RESET_B	0.01860	**0.01465**	0.32940	**0.04420**	2.50740	**0.13424**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00013**	0.32940	**0.00008**	2.50740	**0.00007**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00068**	0.32940	**0.00053**	2.50740	**0.00048**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00013**	0.32940	**0.00008**	2.50740	**0.00008**
	(!D * GATE_N * !Q)	0.01860	**0.00013**	0.32940	**0.00008**	2.50740	**0.00007**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00068**	0.32940	**0.00053**	2.50740	**0.00048**
	(!D * GATE_N * !Q)	0.01860	**0.00068**	0.32940	**0.00053**	2.50740	**0.00048**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01408**	0.32940	**0.02653**	2.50740	**0.13315**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01722**	0.32940	**0.04062**	2.50740	**0.14793**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.02458**	0.32940	**0.03675**	2.50740	**0.14255**
	(!D * !RESET_B * !Q)	0.01860	**0.01408**	0.32940	**0.02653**	2.50740	**0.13315**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.02202**	0.32940	**0.03506**	2.50740	**0.14074**
	(!D * RESET_B * !Q)	0.01860	**0.01722**	0.32940	**0.04062**	2.50740	**0.14793**
	(!D * !RESET_B * !Q)	0.01860	**0.01724**	0.32940	**0.04064**	2.50740	**0.14796**

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	RESET_B	GATE_N	Q	Q_N
x	0	x	0	1
0	1	0	0	1
x	1	1	IQ	IQN
1	1	0	1	0

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE_N	Q	Q_N
sg13g2_dllr_1	0.00229	0.00324	0.00246	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	3709.86000	4416.94000	4779.23000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.09393**	0.32940	0.06480	**0.22406**	2.50740	0.30000	**0.59934**
	GATE_N->Q (FR)	0.01860	0.00100	**0.10178**	0.32940	0.06480	**0.24664**	2.50740	0.30000	**0.69784**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.08054**	0.32940	0.06480	**0.19717**	2.50740	0.30000	**0.53286**
	GATE_N->Q (FF)	0.01860	0.00100	**0.07622**	0.32940	0.06480	**0.21063**	2.50740	0.30000	**0.62875**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03430**	0.32940	0.06480	**0.17300**	2.50740	0.30000	**0.52431**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.09763**	0.32940	0.06480	**0.22024**	2.50740	0.30000	**0.60131**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.09337**	0.32940	0.06480	**0.23408**	2.50740	0.30000	**0.69663**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.05172**	0.32940	0.06480	**0.19084**	2.50740	0.30000	**0.58636**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.11331**	0.32940	0.06480	**0.22267**	2.50740	0.30000	**0.55171**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.12106**	0.32940	0.06480	**0.24534**	2.50740	0.30000	**0.65056**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.03423**	1.26300	1.26300	**-0.05936**	2.50740	2.50740	**-0.09150**
	setup	GATE_N (R)	0.01860	0.01860	**0.04401**	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)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.21251**
	setup	GATE_N (R)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.18889**	2.50740	2.50740	**0.29220**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.00978**	1.26300	1.26300	**0.01619**	2.50740	2.50740	**0.06198**
	removal	GATE_N (R)	0.01860	0.01860	**0.01712**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**-0.05018**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.02029**	0.32940	0.06480	**0.10783**	2.50740	0.30000	**0.43209**
	GATE_N	0.01860	0.00100	**0.04295**	0.32940	0.06480	**0.13034**	2.50740	0.30000	**0.45143**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.02139**	0.32940	0.06480	**0.08836**	2.50740	0.30000	**0.41068**
	GATE_N	0.01860	0.00100	**0.03908**	0.32940	0.06480	**0.12742**	2.50740	0.30000	**0.45904**
	RESET_B	0.01860	0.00100	**0.04444**	0.32940	0.06480	**0.14348**	2.50740	0.30000	**0.54888**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.02149**	0.32940	0.06480	**0.08841**	2.50740	0.30000	**0.40962**
	GATE_N	0.01860	0.00100	**0.03914**	0.32940	0.06480	**0.12850**	2.50740	0.30000	**0.45710**
	RESET_B	0.01860	0.00100	**0.04448**	0.32940	0.06480	**0.14460**	2.50740	0.30000	**0.54330**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.02031**	0.32940	0.06480	**0.10730**	2.50740	0.30000	**0.43182**
	GATE_N	0.01860	0.00100	**0.04298**	0.32940	0.06480	**0.13004**	2.50740	0.30000	**0.45310**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.03256**	0.32940	**0.04284**	2.50740	**0.13287**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.02850**	0.32940	**0.06014**	2.50740	**0.15017**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00672**	0.32940	**0.01674**	2.50740	**0.10310**
	!RESET_B	0.01860	**0.03256**	0.32940	**0.04284**	2.50740	**0.13287**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00606**	0.32940	**0.01630**	2.50740	**0.10141**
	!RESET_B	0.01860	**0.02850**	0.32940	**0.06014**	2.50740	**0.15017**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**-0.00011**	0.32940	**-0.00018**	2.50740	**-0.00018**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00092**	0.32940	**0.00079**	2.50740	**0.00073**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**-0.00011**	0.32940	**-0.00018**	2.50740	**-0.00018**
	(!D * GATE_N * !Q)	0.01860	**-0.00011**	0.32940	**-0.00018**	2.50740	**-0.00018**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00092**	0.32940	**0.00079**	2.50740	**0.00074**
	(!D * GATE_N * !Q)	0.01860	**0.00092**	0.32940	**0.00079**	2.50740	**0.00073**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01092**	0.32940	**0.04052**	2.50740	**0.14709**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01571**	0.32940	**0.02887**	2.50740	**0.13606**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.02498**	0.32940	**0.03710**	2.50740	**0.14303**
	(!D * RESET_B * !Q)	0.01860	**0.01092**	0.32940	**0.04052**	2.50740	**0.14709**
	(!D * !RESET_B * !Q)	0.01860	**0.01094**	0.32940	**0.04054**	2.50740	**0.14710**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.02265**	0.32940	**0.03563**	2.50740	**0.14128**
	(!D * !RESET_B * !Q)	0.01860	**0.01571**	0.32940	**0.02887**	2.50740	**0.13606**

DLY1

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	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00150	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	1089.99000	1219.20000	1348.41000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.05417**	0.32940	0.06480	**0.17021**	2.50740	0.30000	**0.45297**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.06188**	0.32940	0.06480	**0.19819**	2.50740	0.30000	**0.65645**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.02362**	0.32940	0.06480	**0.03080**	2.50740	0.30000	**0.09083**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.02248**	0.32940	0.06480	**0.03001**	2.50740	0.30000	**0.09101**

DLY2

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	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00151	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	1542.41000	1671.65000	1800.89000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.08309**	0.32940	0.06480	**0.20993**	2.50740	0.30000	**0.52339**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.09189**	0.32940	0.06480	**0.24223**	2.50740	0.30000	**0.71501**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.02880**	0.32940	0.06480	**0.03496**	2.50740	0.30000	**0.09173**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.02799**	0.32940	0.06480	**0.03426**	2.50740	0.30000	**0.09196**

DLY4

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	0.00146	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	3719.04000	3848.27000	3977.51000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.18321**	0.32940	0.06480	**0.33089**	2.50740	0.30000	**0.70428**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.18517**	0.32940	0.06480	**0.36280**	2.50740	0.30000	**0.88445**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.04394**	0.32940	0.06480	**0.04706**	2.50740	0.30000	**0.10035**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.04367**	0.32940	0.06480	**0.04665**	2.50740	0.30000	**0.10055**

EINVINx

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_4	23.58720
sg13g2_einvn_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_4	0.00792	0.00987	1.20000
sg13g2_einvn_2	0.00397	0.00517	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	4387.33000	5429.25000	6471.17000
sg13g2_einvn_2	2203.90000	2724.87000	3245.84000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (FR)	0.01860	0.01097	**0.01388**	0.32940	0.26917	**0.29512**	2.50740	1.20997	**1.60002**
	TE_B->Z (RR)	0.01860	0.01097	**0.02908**	0.32940	0.26917	**0.07101**	2.50740	1.20997	**0.14272**
	TE_B->Z (FR)	0.01860	0.01097	**0.01708**	0.32940	0.26917	**0.25539**	2.50740	1.20997	**1.24911**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00606	**0.01495**	0.32940	0.13466	**0.29465**	2.50740	0.60506	**1.59620**
	TE_B->Z (RR)	0.01860	0.00606	**0.02792**	0.32940	0.13466	**0.06639**	2.50740	0.60506	**0.13124**
	TE_B->Z (FR)	0.01860	0.00606	**0.01771**	0.32940	0.13466	**0.25543**	2.50740	0.60506	**1.25046**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01549	**0.01289**	0.32940	0.27369	**0.25763**	2.50740	1.21449	**1.40176**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00841	**0.01380**	0.32940	0.13701	**0.25747**	2.50740	0.60741	**1.40439**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01097	**0.02066**	0.32940	0.26917	**0.03689**	2.50740	1.20997	**0.19107**
	TE_B	0.01860	0.01097	**0.03614**	0.32940	0.26917	**0.02727**	2.50740	1.20997	**0.02189**
sg13g2_einvn_2	A	0.01860	0.00606	**0.01050**	0.32940	0.13466	**0.01829**	2.50740	0.60506	**0.09391**
	TE_B	0.01860	0.00606	**0.01770**	0.32940	0.13466	**0.01340**	2.50740	0.60506	**0.01060**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01549	**0.01828**	0.32940	0.27369	**0.03315**	2.50740	1.21449	**0.16493**
sg13g2_einvn_2	A	0.01860	0.00841	**0.00927**	0.32940	0.13701	**0.01672**	2.50740	0.60741	**0.08450**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_2	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)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**-0.00275**	0.32940	**0.00811**	2.50740	**0.12379**
sg13g2_einvn_2	0.01860	**-0.00108**	0.32940	**0.00524**	2.50740	**0.07007**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.02241**	0.32940	**0.04362**	2.50740	**0.15971**
sg13g2_einvn_2	0.01860	**0.01165**	0.32940	**0.02282**	2.50740	**0.08766**

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

INx

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_16	34.47360
sg13g2_inv_8	18.14400
sg13g2_inv_4	10.88640
sg13g2_inv_2	7.25760
sg13g2_inv_1	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_16	0.05034	4.80000
sg13g2_inv_8	0.02457	2.40000
sg13g2_inv_4	0.01230	1.20000
sg13g2_inv_2	0.00614	0.60000
sg13g2_inv_1	0.00308	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	3337.24000	7505.02000	11672.80000
sg13g2_inv_8	1668.63000	3752.51000	5836.38000
sg13g2_inv_4	834.31200	1876.25000	2918.19000
sg13g2_inv_2	417.15600	938.12800	1459.10000
sg13g2_inv_1	208.57800	469.06200	729.54700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.00892**	0.32940	1.03680	**0.20630**	2.50740	4.80000	**1.13583**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.00881**	0.32940	0.51840	**0.20572**	2.50740	2.40000	**1.13405**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.00899**	0.32940	0.25920	**0.20544**	2.50740	1.20000	**1.13310**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.00975**	0.32940	0.12960	**0.20503**	2.50740	0.60000	**1.13240**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.01138**	0.32940	0.06480	**0.20507**	2.50740	0.30000	**1.13037**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.00871**	0.32940	1.03680	**0.19155**	2.50740	4.80000	**1.06186**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.00862**	0.32940	0.51840	**0.19165**	2.50740	2.40000	**1.06509**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.00877**	0.32940	0.25920	**0.19140**	2.50740	1.20000	**1.06257**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.00944**	0.32940	0.12960	**0.18996**	2.50740	0.60000	**1.05436**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01092**	0.32940	0.06480	**0.19013**	2.50740	0.30000	**1.05450**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.04799**	0.32940	1.03680	**0.14506**	2.50740	4.80000	**1.03285**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.02306**	0.32940	0.51840	**0.06948**	2.50740	2.40000	**0.51398**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.01148**	0.32940	0.25920	**0.03521**	2.50740	1.20000	**0.25869**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00574**	0.32940	0.12960	**0.01756**	2.50740	0.60000	**0.13147**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00313**	0.32940	0.06480	**0.00898**	2.50740	0.30000	**0.06553**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.03791**	0.32940	1.03680	**0.12551**	2.50740	4.80000	**0.97131**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01811**	0.32940	0.51840	**0.06152**	2.50740	2.40000	**0.46935**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00905**	0.32940	0.25920	**0.03075**	2.50740	1.20000	**0.23822**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00457**	0.32940	0.12960	**0.01534**	2.50740	0.60000	**0.11936**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00276**	0.32940	0.06480	**0.00799**	2.50740	0.30000	**0.06030**

ITL

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_8	39.84120

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_8	0.01579	0.01667	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	8566.04000	10649.90000	12733.80000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (FR)	0.01860	0.02090	**0.01347**	0.32940	0.53830	**0.29667**	2.50740	2.41990	**1.60509**
	TE_B->Z (RR)	0.01860	0.02090	**0.03823**	0.32940	0.53830	**0.09796**	2.50740	2.41990	**0.21112**
	TE_B->Z (FR)	0.01860	0.02090	**0.01822**	0.32940	0.53830	**0.25777**	2.50740	2.41990	**1.25299**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (RF)	0.01860	0.02989	**0.01282**	0.32940	0.54729	**0.25911**	2.50740	2.42889	**1.41418**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.02090	**0.03985**	0.32940	0.53830	**0.07481**	2.50740	2.41990	**0.38695**
	TE_B	0.01860	0.02090	**0.08170**	0.32940	0.53830	**0.05675**	2.50740	2.41990	**0.04366**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.02989	**0.03517**	0.32940	0.54729	**0.06486**	2.50740	2.42889	**0.33264**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
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)	Min	Slew(ns)	Mid	Slew(ns)	Max
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)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**-0.00881**	0.32940	**-0.00098**	2.50740	**0.11109**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.03202**	0.32940	**0.06654**	2.50740	**0.18065**

KEEPSTATE

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	0.00000	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	116.26700	1502.82000	2889.37000

Passive Power Information

Passive power(pJ) for SH rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sighold	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for SH falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sighold	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

MUX2

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_1	0.00213	0.00214	0.00569	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	1907.10000	2302.08000	2933.22000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.03607**	0.32940	0.06480	**0.17619**	2.50740	0.30000	**0.58671**
	A1->X (RR)	0.01860	0.00100	**0.02933**	0.32940	0.06480	**0.17784**	2.50740	0.30000	**0.59004**
	S->X (-R)	0.01860	0.00100	**0.03960**	0.32940	0.06480	**0.16995**	2.50740	0.30000	**0.57905**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.03336**	0.32940	0.06480	**0.19231**	2.50740	0.30000	**0.67237**
	A1->X (FF)	0.01860	0.00100	**0.04475**	0.32940	0.06480	**0.19466**	2.50740	0.30000	**0.68259**
	S->X (-F)	0.01860	0.00100	**0.05006**	0.32940	0.06480	**0.18103**	2.50740	0.30000	**0.63615**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.03960**	0.32940	0.06480	**0.16995**	2.50740	0.30000	**0.57905**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.05634**	0.32940	0.06480	**0.18502**	2.50740	0.30000	**0.56802**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.05006**	0.32940	0.06480	**0.18103**	2.50740	0.30000	**0.63615**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.06499**	0.32940	0.06480	**0.18469**	2.50740	0.30000	**0.52284**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01931**	0.32940	0.06480	**0.02826**	2.50740	0.30000	**0.11370**
	A1	0.01860	0.00100	**0.02003**	0.32940	0.06480	**0.03386**	2.50740	0.30000	**0.11904**
	S	0.01860	0.00100	**0.01832**	0.32940	0.06480	**0.02697**	2.50740	0.30000	**0.11802**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0	0.01860	0.00100	**0.02096**	0.32940	0.06480	**0.03619**	2.50740	0.30000	**0.11772**
	A1	0.01860	0.00100	**0.01970**	0.32940	0.06480	**0.02900**	2.50740	0.30000	**0.11383**
	S	0.01860	0.00100	**0.01775**	0.32940	0.06480	**0.02667**	2.50740	0.30000	**0.11653**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01833**	0.32940	0.06480	**0.01862**	2.50740	0.30000	**0.02368**
	S	(!A0 * A1)	0.01860	0.00100	**0.01832**	0.32940	0.06480	**0.02697**	2.50740	0.30000	**0.11802**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01825**	0.32940	0.06480	**0.01868**	2.50740	0.30000	**0.02358**
	S	(!A0 * A1)	0.01860	0.00100	**0.01775**	0.32940	0.06480	**0.02667**	2.50740	0.30000	**0.11653**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00784**	0.32940	**0.01745**	2.50740	**0.10340**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00799**	0.32940	**0.01795**	2.50740	**0.10273**

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	0.00303	0.00303	0.00303	0.00303	0.00862	0.00525	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	2333.77000	3933.03000	5424.77000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.06398**	0.32940	0.06480	**0.21359**	2.50740	0.30000	**0.69270**
	A1->X (RR)	0.01860	0.00100	**0.06267**	0.32940	0.06480	**0.21276**	2.50740	0.30000	**0.69071**
	A2->X (RR)	0.01860	0.00100	**0.06589**	0.32940	0.06480	**0.21839**	2.50740	0.30000	**0.70013**
	A3->X (RR)	0.01860	0.00100	**0.06491**	0.32940	0.06480	**0.21779**	2.50740	0.30000	**0.69985**
	S0->X (-R)	0.01860	0.00100	**0.05428**	0.32940	0.06480	**0.22007**	2.50740	0.30000	**0.70396**
	S1->X (-R)	0.01860	0.00100	**-0.00957**	0.32940	0.06480	**0.17602**	2.50740	0.30000	**0.61459**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.07105**	0.32940	0.06480	**0.21223**	2.50740	0.30000	**0.65038**
	A1->X (FF)	0.01860	0.00100	**0.07148**	0.32940	0.06480	**0.21297**	2.50740	0.30000	**0.65180**
	A2->X (FF)	0.01860	0.00100	**0.07472**	0.32940	0.06480	**0.21829**	2.50740	0.30000	**0.66188**
	A3->X (FF)	0.01860	0.00100	**0.07547**	0.32940	0.06480	**0.21820**	2.50740	0.30000	**0.66111**
	S0->X (-F)	0.01860	0.00100	**0.06294**	0.32940	0.06480	**0.22343**	2.50740	0.30000	**0.69425**
	S1->X (-F)	0.01860	0.00100	**-0.00682**	0.32940	0.06480	**0.17749**	2.50740	0.30000	**0.62673**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.05428**	0.32940	0.06480	**0.22007**	2.50740	0.30000	**0.70396**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.05181**	0.32940	0.06480	**0.21273**	2.50740	0.30000	**0.68982**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.08025**	0.32940	0.06480	**0.22631**	2.50740	0.30000	**0.64024**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.07839**	0.32940	0.06480	**0.22304**	2.50740	0.30000	**0.63517**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**-0.01101**	0.32940	0.06480	**0.17597**	2.50740	0.30000	**0.61378**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.00957**	0.32940	0.06480	**0.17602**	2.50740	0.30000	**0.61459**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**-0.01101**	0.32940	0.06480	**0.18022**	2.50740	0.30000	**0.57859**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.00958**	0.32940	0.06480	**0.18024**	2.50740	0.30000	**0.57870**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.06294**	0.32940	0.06480	**0.22343**	2.50740	0.30000	**0.69425**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.05793**	0.32940	0.06480	**0.21461**	2.50740	0.30000	**0.67559**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.08469**	0.32940	0.06480	**0.22474**	2.50740	0.30000	**0.60354**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.08067**	0.32940	0.06480	**0.21939**	2.50740	0.30000	**0.59597**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**-0.00682**	0.32940	0.06480	**0.17749**	2.50740	0.30000	**0.62673**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.01151**	0.32940	0.06480	**0.17665**	2.50740	0.30000	**0.62514**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**-0.00766**	0.32940	0.06480	**0.17813**	2.50740	0.30000	**0.54390**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.01150**	0.32940	0.06480	**0.17788**	2.50740	0.30000	**0.54398**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0	0.01860	0.00100	**0.02392**	0.32940	0.06480	**0.02949**	2.50740	0.30000	**0.11425**
	A1	0.01860	0.00100	**0.02314**	0.32940	0.06480	**0.02870**	2.50740	0.30000	**0.11219**
	A2	0.01860	0.00100	**0.02437**	0.32940	0.06480	**0.02983**	2.50740	0.30000	**0.11331**
	A3	0.01860	0.00100	**0.03031**	0.32940	0.06480	**0.03576**	2.50740	0.30000	**0.11881**
	S0	0.01860	0.00100	**0.01519**	0.32940	0.06480	**0.02379**	2.50740	0.30000	**0.10291**
	S1	0.01860	0.00100	**0.02074**	0.32940	0.06480	**0.06287**	2.50740	0.30000	**0.11571**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0	0.01860	0.00100	**0.02459**	0.32940	0.06480	**0.02990**	2.50740	0.30000	**0.11267**
	A1	0.01860	0.00100	**0.03164**	0.32940	0.06480	**0.03711**	2.50740	0.30000	**0.12093**
	A2	0.01860	0.00100	**0.03486**	0.32940	0.06480	**0.04013**	2.50740	0.30000	**0.12429**
	A3	0.01860	0.00100	**0.02659**	0.32940	0.06480	**0.03182**	2.50740	0.30000	**0.11453**
	S0	0.01860	0.00100	**0.03253**	0.32940	0.06480	**0.02933**	2.50740	0.30000	**-0.03754**
	S1	0.01860	0.00100	**0.01940**	0.32940	0.06480	**0.06447**	2.50740	0.30000	**0.13115**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.03171**	0.32940	0.06480	**0.01559**	2.50740	0.30000	**0.00000**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.03157**	0.32940	0.06480	**0.01572**	2.50740	0.30000	**0.00000**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01521**	0.32940	0.06480	**0.02455**	2.50740	0.30000	**0.10392**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01519**	0.32940	0.06480	**0.02379**	2.50740	0.30000	**0.10291**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01748**	0.32940	0.06480	**0.07193**	2.50740	0.30000	**0.12567**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.02074**	0.32940	0.06480	**0.06287**	2.50740	0.30000	**0.11571**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01763**	0.32940	0.06480	**0.06048**	2.50740	0.30000	**0.12655**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.02074**	0.32940	0.06480	**0.05249**	2.50740	0.30000	**0.11812**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.03273**	0.32940	0.06480	**0.02842**	2.50740	0.30000	**0.00000**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.03253**	0.32940	0.06480	**0.02933**	2.50740	0.30000	**0.00000**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01738**	0.32940	0.06480	**0.02017**	2.50740	0.30000	**0.09955**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01724**	0.32940	0.06480	**0.02025**	2.50740	0.30000	**0.09627**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.02900**	0.32940	0.06480	**0.05319**	2.50740	0.30000	**0.10784**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.02066**	0.32940	0.06480	**0.07314**	2.50740	0.30000	**0.12810**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.02264**	0.32940	0.06480	**0.04629**	2.50740	0.30000	**0.11183**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01940**	0.32940	0.06480	**0.06447**	2.50740	0.30000	**0.13115**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01500**	0.32940	**0.03577**	2.50740	**0.21738**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01403**	0.32940	**0.04135**	2.50740	**0.22081**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.01403**	0.32940	**0.03537**	2.50740	**0.21737**
	(A0 * A1 * !S1)	0.01860	**0.01500**	0.32940	**0.03577**	2.50740	**0.21738**
	(!A2 * !A3 * S1)	0.01860	**0.01427**	0.32940	**0.03584**	2.50740	**0.21775**
	(!A0 * !A1 * !S1)	0.01860	**0.01578**	0.32940	**0.03677**	2.50740	**0.21826**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.01426**	0.32940	**0.04189**	2.50740	**0.22148**
	(A0 * A1 * !S1)	0.01860	**0.01534**	0.32940	**0.04475**	2.50740	**0.22394**
	(!A2 * !A3 * S1)	0.01860	**0.01403**	0.32940	**0.04135**	2.50740	**0.22081**
	(!A0 * !A1 * !S1)	0.01860	**0.01351**	0.32940	**0.03511**	2.50740	**0.21407**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00831**	0.32940	**0.02067**	2.50740	**0.12391**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00836**	0.32940	**0.02125**	2.50740	**0.12281**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00831**	0.32940	**0.02067**	2.50740	**0.12391**
	(A0 * A2 * !S0)	0.01860	**0.00829**	0.32940	**0.02065**	2.50740	**0.12389**
	(!A1 * !A3 * S0)	0.01860	**0.00821**	0.32940	**0.02088**	2.50740	**0.12402**
	(!A0 * !A2 * !S0)	0.01860	**0.00819**	0.32940	**0.02086**	2.50740	**0.12399**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00836**	0.32940	**0.02126**	2.50740	**0.12284**
	(A0 * A2 * !S0)	0.01860	**0.00836**	0.32940	**0.02125**	2.50740	**0.12281**
	(!A1 * !A3 * S0)	0.01860	**0.00860**	0.32940	**0.02122**	2.50740	**0.12273**
	(!A0 * !A2 * !S0)	0.01860	**0.00859**	0.32940	**0.02121**	2.50740	**0.12271**

NAND2B1

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00253	0.00334	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	357.06600	1055.54000	1612.75000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.02685**	0.32940	0.06480	**0.15561**	2.50740	0.30000	**0.58825**
	B->Y (FR)	0.01860	0.00100	**0.01480**	0.32940	0.06480	**0.20897**	2.50740	0.30000	**1.12647**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.03190**	0.32940	0.06480	**0.20297**	2.50740	0.30000	**0.79322**
	B->Y (RF)	0.01860	0.00100	**0.01936**	0.32940	0.06480	**0.22919**	2.50740	0.30000	**1.21101**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00340**	0.32940	0.06480	**0.00377**	2.50740	0.30000	**0.00423**
	B	0.01860	0.00100	**0.00366**	0.32940	0.06480	**0.00868**	2.50740	0.30000	**0.05946**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00799**	0.32940	0.06480	**0.00824**	2.50740	0.30000	**0.00974**
	B	0.01860	0.00100	**0.00780**	0.32940	0.06480	**0.01140**	2.50740	0.30000	**0.05626**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00804**	0.32940	**0.01830**	2.50740	**0.10502**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00399**	0.32940	**0.01419**	2.50740	**0.09955**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00804**	0.32940	**0.01830**	2.50740	**0.10502**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00399**	0.32940	**0.01419**	2.50740	**0.09955**

NAND2

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_1	0.00304	0.00318	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	203.41400	841.74700	1459.09000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.01271**	0.32940	0.06480	**0.20502**	2.50740	0.30000	**1.11473**
	B->Y (FR)	0.01860	0.00100	**0.01497**	0.32940	0.06480	**0.20800**	2.50740	0.30000	**1.12360**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.01652**	0.32940	0.06480	**0.25608**	2.50740	0.30000	**1.40374**
	B->Y (RF)	0.01860	0.00100	**0.01795**	0.32940	0.06480	**0.22803**	2.50740	0.30000	**1.20987**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A	0.01860	0.00100	**0.00342**	0.32940	0.06480	**0.00813**	2.50740	0.30000	**0.05485**
	B	0.01860	0.00100	**0.00341**	0.32940	0.06480	**0.00832**	2.50740	0.30000	**0.05887**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A	0.01860	0.00100	**0.00396**	0.32940	0.06480	**0.00821**	2.50740	0.30000	**0.05057**
	B	0.01860	0.00100	**0.00740**	0.32940	0.06480	**0.01123**	2.50740	0.30000	**0.05680**

NAND3B1

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	0.00244	0.00318	0.00323	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	361.01500	1221.45000	2342.28000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.02801**	0.32940	0.06480	**0.15540**	2.50740	0.30000	**0.58579**
	B->Y (FR)	0.01860	0.00100	**0.01640**	0.32940	0.06480	**0.20956**	2.50740	0.30000	**1.11480**
	C->Y (FR)	0.01860	0.00100	**0.01771**	0.32940	0.06480	**0.21207**	2.50740	0.30000	**1.12222**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.03788**	0.32940	0.06480	**0.26337**	2.50740	0.30000	**1.05538**
	B->Y (RF)	0.01860	0.00100	**0.02833**	0.32940	0.06480	**0.29904**	2.50740	0.30000	**1.55382**
	C->Y (RF)	0.01860	0.00100	**0.03079**	0.32940	0.06480	**0.27613**	2.50740	0.30000	**1.36079**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00365**	0.32940	0.06480	**0.00404**	2.50740	0.30000	**0.00486**
	B	0.01860	0.00100	**0.00422**	0.32940	0.06480	**0.00838**	2.50740	0.30000	**0.05112**
	C	0.01860	0.00100	**0.00459**	0.32940	0.06480	**0.00872**	2.50740	0.30000	**0.05442**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.01007**	0.32940	0.06480	**0.01004**	2.50740	0.30000	**0.01030**
	B	0.01860	0.00100	**0.00980**	0.32940	0.06480	**0.01249**	2.50740	0.30000	**0.04866**
	C	0.01860	0.00100	**0.01340**	0.32940	0.06480	**0.01611**	2.50740	0.30000	**0.05917**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00791**	0.32940	**0.01819**	2.50740	**0.10487**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00404**	0.32940	**0.01423**	2.50740	**0.09956**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00791**	0.32940	**0.01819**	2.50740	**0.10487**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00404**	0.32940	**0.01423**	2.50740	**0.09956**

NOR2

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_1	0.00321	0.00304	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	417.15700	843.97800	1338.85000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.02101**	0.32940	0.06480	**0.26420**	2.50740	0.30000	**1.36900**
	B->Y (FR)	0.01860	0.00100	**0.01877**	0.32940	0.06480	**0.29623**	2.50740	0.30000	**1.60773**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.01435**	0.32940	0.06480	**0.19328**	2.50740	0.30000	**1.04780**
	B->Y (RF)	0.01860	0.00100	**0.01223**	0.32940	0.06480	**0.19022**	2.50740	0.30000	**1.03808**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A	0.01860	0.00100	**0.00842**	0.32940	0.06480	**0.01242**	2.50740	0.30000	**0.06132**
	B	0.01860	0.00100	**0.00410**	0.32940	0.06480	**0.00869**	2.50740	0.30000	**0.05355**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A	0.01860	0.00100	**0.00328**	0.32940	0.06480	**0.00749**	2.50740	0.30000	**0.05219**
	B	0.01860	0.00100	**0.00321**	0.32940	0.06480	**0.00742**	2.50740	0.30000	**0.04856**

NOR3

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_1	0.00321	0.00313	0.00300	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	625.73500	1142.51000	1989.34000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.03543**	0.32940	0.06480	**0.33705**	2.50740	0.30000	**1.62263**
	B->Y (FR)	0.01860	0.00100	**0.03323**	0.32940	0.06480	**0.36220**	2.50740	0.30000	**1.83744**
	C->Y (FR)	0.01860	0.00100	**0.02599**	0.32940	0.06480	**0.37933**	2.50740	0.30000	**2.01776**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.01628**	0.32940	0.06480	**0.19692**	2.50740	0.30000	**1.04692**
	B->Y (RF)	0.01860	0.00100	**0.01592**	0.32940	0.06480	**0.19506**	2.50740	0.30000	**1.04257**
	C->Y (RF)	0.01860	0.00100	**0.01375**	0.32940	0.06480	**0.19180**	2.50740	0.30000	**1.03391**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A	0.01860	0.00100	**0.01426**	0.32940	0.06480	**0.01686**	2.50740	0.30000	**0.06051**
	B	0.01860	0.00100	**0.01030**	0.32940	0.06480	**0.01310**	2.50740	0.30000	**0.04994**
	C	0.01860	0.00100	**0.00591**	0.32940	0.06480	**0.00969**	2.50740	0.30000	**0.04704**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A	0.01860	0.00100	**0.00421**	0.32940	0.06480	**0.00777**	2.50740	0.30000	**0.04823**
	B	0.01860	0.00100	**0.00397**	0.32940	0.06480	**0.00742**	2.50740	0.30000	**0.04465**
	C	0.01860	0.00100	**0.00356**	0.32940	0.06480	**0.00718**	2.50740	0.30000	**0.04143**

NOR4

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	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_1	0.00322	0.00310	0.00263	0.00267	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	715.11300	1525.04000	2642.37000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.05362**	0.32940	0.06480	**0.42368**	2.50740	0.30000	**1.93297**
	B->Y (FR)	0.01860	0.00100	**0.05153**	0.32940	0.06480	**0.43994**	2.50740	0.30000	**2.08945**
	C->Y (FR)	0.01860	0.00100	**0.04484**	0.32940	0.06480	**0.45633**	2.50740	0.30000	**2.27116**
	D->Y (FR)	0.01860	0.00100	**0.03239**	0.32940	0.06480	**0.46362**	2.50740	0.30000	**2.40211**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.01707**	0.32940	0.06480	**0.19989**	2.50740	0.30000	**1.04738**
	B->Y (RF)	0.01860	0.00100	**0.01749**	0.32940	0.06480	**0.19862**	2.50740	0.30000	**1.04582**
	C->Y (RF)	0.01860	0.00100	**0.01686**	0.32940	0.06480	**0.19569**	2.50740	0.30000	**1.03696**
	D->Y (RF)	0.01860	0.00100	**0.01456**	0.32940	0.06480	**0.19224**	2.50740	0.30000	**1.02896**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A	0.01860	0.00100	**0.01632**	0.32940	0.06480	**0.01786**	2.50740	0.30000	**0.05805**
	B	0.01860	0.00100	**0.01490**	0.32940	0.06480	**0.01654**	2.50740	0.30000	**0.05142**
	C	0.01860	0.00100	**0.01219**	0.32940	0.06480	**0.01433**	2.50740	0.30000	**0.04635**
	D	0.01860	0.00100	**0.00892**	0.32940	0.06480	**0.01221**	2.50740	0.30000	**0.04510**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A	0.01860	0.00100	**0.00512**	0.32940	0.06480	**0.00815**	2.50740	0.30000	**0.04597**
	B	0.01860	0.00100	**0.00531**	0.32940	0.06480	**0.00841**	2.50740	0.30000	**0.04332**
	C	0.01860	0.00100	**0.00256**	0.32940	0.06480	**0.00559**	2.50740	0.30000	**0.03759**
	D	0.01860	0.00100	**0.00138**	0.32940	0.06480	**0.00473**	2.50740	0.30000	**0.03549**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00016**	0.32940	**-0.00011**	2.50740	**-0.00016**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00296**	0.32940	**0.00294**	2.50740	**0.00299**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00016**	0.32940	**-0.00011**	2.50740	**-0.00016**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00296**	0.32940	**0.00294**	2.50740	**0.00299**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00016**	0.32940	**-0.00038**	2.50740	**-0.00042**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00047**	0.32940	**0.00050**	2.50740	**0.00050**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!A * C) + (!A * !C * D)	0.01860	**-0.00016**	0.32940	**-0.00038**	2.50740	**-0.00042**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!A * C) + (!A * !C * D)	0.01860	**0.00047**	0.32940	**0.00050**	2.50740	**0.00050**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00195**	0.32940	**0.00198**	2.50740	**0.00198**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00073**	0.32940	**-0.00073**	2.50740	**-0.00073**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**0.00195**	0.32940	**0.00198**	2.50740	**0.00198**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00073**	0.32940	**-0.00073**	2.50740	**-0.00073**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00242**	0.32940	**0.00244**	2.50740	**0.00243**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00184**	0.32940	**-0.00186**	2.50740	**-0.00187**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00242**	0.32940	**0.00244**	2.50740	**0.00243**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**-0.00184**	0.32940	**-0.00186**	2.50740	**-0.00187**

NP_ANT

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	0.00104

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	8.16746	8.16746	8.16746

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**-0.00055**	0.32940	**-0.00056**	2.50740	**-0.00057**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00056**	0.32940	**0.00057**	2.50740	**0.00057**

OR2

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	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_1	0.00248	0.00243	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	696.05300	922.82600	1113.94000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.02890**	0.32940	0.06480	**0.16093**	2.50740	0.30000	**0.57132**
	B->X (RR)	0.01860	0.00100	**0.02676**	0.32940	0.06480	**0.15062**	2.50740	0.30000	**0.50381**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.04225**	0.32940	0.06480	**0.16689**	2.50740	0.30000	**0.59380**
	B->X (FF)	0.01860	0.00100	**0.03991**	0.32940	0.06480	**0.17971**	2.50740	0.30000	**0.66778**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A	0.01860	0.00100	**0.01106**	0.32940	0.06480	**0.01980**	2.50740	0.30000	**0.09814**
	B	0.01860	0.00100	**0.01116**	0.32940	0.06480	**0.01951**	2.50740	0.30000	**0.09502**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A	0.01860	0.00100	**0.01512**	0.32940	0.06480	**0.02267**	2.50740	0.30000	**0.09661**
	B	0.01860	0.00100	**0.01182**	0.32940	0.06480	**0.02032**	2.50740	0.30000	**0.09286**

OR3

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_1	0.00273	0.00269	0.00261	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	703.25700	1119.61000	1554.28000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.03282**	0.32940	0.06480	**0.17612**	2.50740	0.30000	**0.62131**
	B->X (RR)	0.01860	0.00100	**0.03147**	0.32940	0.06480	**0.16655**	2.50740	0.30000	**0.55451**
	C->X (RR)	0.01860	0.00100	**0.02871**	0.32940	0.06480	**0.15512**	2.50740	0.30000	**0.49915**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.05931**	0.32940	0.06480	**0.17923**	2.50740	0.30000	**0.59614**
	B->X (FF)	0.01860	0.00100	**0.05683**	0.32940	0.06480	**0.19335**	2.50740	0.30000	**0.67489**
	C->X (FF)	0.01860	0.00100	**0.04986**	0.32940	0.06480	**0.19836**	2.50740	0.30000	**0.71709**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A	0.01860	0.00100	**0.01201**	0.32940	0.06480	**0.02000**	2.50740	0.30000	**0.10190**
	B	0.01860	0.00100	**0.01166**	0.32940	0.06480	**0.01914**	2.50740	0.30000	**0.09521**
	C	0.01860	0.00100	**0.01143**	0.32940	0.06480	**0.01957**	2.50740	0.30000	**0.09156**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A	0.01860	0.00100	**0.02181**	0.32940	0.06480	**0.02708**	2.50740	0.30000	**0.10571**
	B	0.01860	0.00100	**0.01828**	0.32940	0.06480	**0.02440**	2.50740	0.30000	**0.09710**
	C	0.01860	0.00100	**0.01439**	0.32940	0.06480	**0.02155**	2.50740	0.30000	**0.09274**

OR4

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_1	0.00276	0.00273	0.00221	0.00229	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	706.98800	1314.75000	1993.46000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.03418**	0.32940	0.06480	**0.18200**	2.50740	0.30000	**0.61785**
	B->X (RR)	0.01860	0.00100	**0.03392**	0.32940	0.06480	**0.17498**	2.50740	0.30000	**0.56015**
	C->X (RR)	0.01860	0.00100	**0.03230**	0.32940	0.06480	**0.16576**	2.50740	0.30000	**0.50640**
	D->X (RR)	0.01860	0.00100	**0.02931**	0.32940	0.06480	**0.15453**	2.50740	0.30000	**0.45951**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.08189**	0.32940	0.06480	**0.20294**	2.50740	0.30000	**0.64729**
	B->X (FF)	0.01860	0.00100	**0.07949**	0.32940	0.06480	**0.21396**	2.50740	0.30000	**0.72302**
	C->X (FF)	0.01860	0.00100	**0.07272**	0.32940	0.06480	**0.22265**	2.50740	0.30000	**0.77585**
	D->X (FF)	0.01860	0.00100	**0.06092**	0.32940	0.06480	**0.22373**	2.50740	0.30000	**0.80058**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A	0.01860	0.00100	**0.01332**	0.32940	0.06480	**0.02033**	2.50740	0.30000	**0.09869**
	B	0.01860	0.00100	**0.01331**	0.32940	0.06480	**0.01989**	2.50740	0.30000	**0.09067**
	C	0.01860	0.00100	**0.01052**	0.32940	0.06480	**0.01686**	2.50740	0.30000	**0.08205**
	D	0.01860	0.00100	**0.00967**	0.32940	0.06480	**0.01644**	2.50740	0.30000	**0.08083**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A	0.01860	0.00100	**0.02187**	0.32940	0.06480	**0.02422**	2.50740	0.30000	**0.10102**
	B	0.01860	0.00100	**0.02217**	0.32940	0.06480	**0.02544**	2.50740	0.30000	**0.09501**
	C	0.01860	0.00100	**0.02021**	0.32940	0.06480	**0.02445**	2.50740	0.30000	**0.08858**
	D	0.01860	0.00100	**0.01571**	0.32940	0.06480	**0.02109**	2.50740	0.30000	**0.08422**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00041**	0.32940	**-0.00044**	2.50740	**-0.00047**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00497**	0.32940	**0.00496**	2.50740	**0.00497**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!B * C) + (!B * !C * D)	0.01860	**-0.00041**	0.32940	**-0.00044**	2.50740	**-0.00047**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00497**	0.32940	**0.00496**	2.50740	**0.00497**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00071**	0.32940	**-0.00071**	2.50740	**-0.00071**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00118**	0.32940	**0.00121**	2.50740	**0.00122**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!A * C) + (!A * !C * D)	0.01860	**-0.00071**	0.32940	**-0.00071**	2.50740	**-0.00071**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!A * C) + (!A * !C * D)	0.01860	**0.00118**	0.32940	**0.00121**	2.50740	**0.00122**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00148**	0.32940	**0.00151**	2.50740	**0.00152**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00034**	0.32940	**-0.00034**	2.50740	**-0.00034**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !D) + (!A * B * !D)	0.01860	**0.00148**	0.32940	**0.00151**	2.50740	**0.00152**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !D) + (!A * B * !D)	0.01860	**-0.00034**	0.32940	**-0.00034**	2.50740	**-0.00034**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00193**	0.32940	**0.00194**	2.50740	**0.00194**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00024**	0.32940	**0.00025**	2.50740	**0.00029**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !C) + (!A * B * !C)	0.01860	**0.00193**	0.32940	**0.00194**	2.50740	**0.00194**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00024**	0.32940	**0.00025**	2.50740	**0.00029**

SDFRRS

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	D	SCD	SCE	RESET_B	SET_B	CLK	Q	Q_N
sg13g2_sdfbbp_1	0.00187	0.00211	0.00363	0.00179	0.00547	0.00332	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	5790.43000	6734.89000	7421.59000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.13236**	0.32940	0.06480	**0.26160**	2.50740	0.30000	**0.64534**
	SET_B->Q (FR)	0.01860	0.00100	**0.05680**	0.32940	0.06480	**0.20384**	2.50740	0.30000	**0.63293**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.11233**	0.32940	0.06480	**0.23315**	2.50740	0.30000	**0.58503**
	RESET_B->Q (FF)	0.01860	0.00100	**0.09497**	0.32940	0.06480	**0.22849**	2.50740	0.30000	**0.61698**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.13236**	0.32940	0.06480	**0.26160**	2.50740	0.30000	**0.64534**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.11233**	0.32940	0.06480	**0.23315**	2.50740	0.30000	**0.58503**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.09284**	0.32940	0.06480	**0.23583**	2.50740	0.30000	**0.63650**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07484**	0.32940	0.06480	**0.23474**	2.50740	0.30000	**0.67533**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.11088**	0.32940	0.06480	**0.24687**	2.50740	0.30000	**0.58757**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.03862**	0.32940	0.06480	**0.18813**	2.50740	0.30000	**0.57675**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.09284**	0.32940	0.06480	**0.23583**	2.50740	0.30000	**0.63650**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.11088**	0.32940	0.06480	**0.24687**	2.50740	0.30000	**0.58757**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.14841**	2.50740	2.50740	**-0.20070**
	setup	CLK (R)	0.01860	0.01860	**0.05868**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.21841**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.17414**
	setup	CLK (R)	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.28925**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.05379**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.22727**
	setup	CLK (R)	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.23908**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.11873**	2.50740	2.50740	**-0.16234**
	setup	CLK (R)	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.27449**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.26269**
	setup	CLK (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.19698**	2.50740	2.50740	**0.29515**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.07674**
	setup	CLK (R)	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.13492**	2.50740	2.50740	**0.19185**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.03668**	1.26300	1.26300	**0.06746**	2.50740	2.50740	**0.08855**
	removal	CLK (R)	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**-0.04317**	2.50740	2.50740	**-0.04722**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.01467**	1.26300	1.26300	**0.24825**	2.50740	2.50740	**0.55784**
	removal	CLK (R)	0.01860	0.01860	**0.01467**	1.26300	1.26300	**0.02968**	2.50740	2.50740	**0.02066**
	hold	RESET_B (R)	0.01860	0.01860	**-0.03423**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.19185**
	setup	RESET_B (R)	0.01860	0.01860	**0.04401**	1.26300	1.26300	**0.16460**	2.50740	2.50740	**0.28630**

Min Pulse Width (ns) for SET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_sdfbbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02049**	0.32940	0.06480	**0.02056**	2.50740	0.30000	**0.02045**
	SET_B	0.01860	0.00100	**0.05800**	0.32940	0.06480	**0.16442**	2.50740	0.30000	**0.63815**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01966**	0.32940	0.06480	**0.01994**	2.50740	0.30000	**0.02501**
	RESET_B	0.01860	0.00100	**0.06747**	0.32940	0.06480	**0.16202**	2.50740	0.30000	**0.56183**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02049**	0.32940	0.06480	**0.02056**	2.50740	0.30000	**0.02045**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01966**	0.32940	0.06480	**0.01994**	2.50740	0.30000	**0.02501**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01965**	0.32940	0.06480	**0.02049**	2.50740	0.30000	**0.02425**
	RESET_B	0.01860	0.00100	**0.06744**	0.32940	0.06480	**0.16313**	2.50740	0.30000	**0.55919**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02047**	0.32940	0.06480	**0.02047**	2.50740	0.30000	**0.02121**
	SET_B	0.01860	0.00100	**0.05794**	0.32940	0.06480	**0.16425**	2.50740	0.30000	**0.64040**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01965**	0.32940	0.06480	**0.02049**	2.50740	0.30000	**0.02425**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02047**	0.32940	0.06480	**0.02047**	2.50740	0.30000	**0.02121**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01099**	0.32940	**0.01529**	2.50740	**0.06386**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00847**	0.32940	**0.01306**	2.50740	**0.06102**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.02011**	0.32940	**0.02532**	2.50740	**0.08001**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.01099**	0.32940	**0.01529**	2.50740	**0.06386**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.02195**	0.32940	**0.02732**	2.50740	**0.08152**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00847**	0.32940	**0.01306**	2.50740	**0.06102**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01412**	0.32940	**0.01796**	2.50740	**0.06916**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01566**	0.32940	**0.01971**	2.50740	**0.07112**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.02322**	0.32940	**0.02785**	2.50740	**0.08455**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.01412**	0.32940	**0.01796**	2.50740	**0.06916**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.03093**	0.32940	**0.03517**	2.50740	**0.09213**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.01566**	0.32940	**0.01971**	2.50740	**0.07112**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.03486**	0.32940	**0.04182**	2.50740	**0.11001**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.03308**	0.32940	**0.05225**	2.50740	**0.11883**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.02668**	0.32940	**0.03491**	2.50740	**0.10346**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.03486**	0.32940	**0.04182**	2.50740	**0.11001**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.02375**	0.32940	**0.03759**	2.50740	**0.16085**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.01390**	0.32940	**0.02672**	2.50740	**0.14341**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.02742**	0.32940	**0.03538**	2.50740	**0.10217**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.03308**	0.32940	**0.05225**	2.50740	**0.11883**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00857**	0.32940	**0.06193**	2.50740	**0.18188**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.01458**	0.32940	**0.02699**	2.50740	**0.14184**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02134**	0.32940	**0.03571**	2.50740	**0.16229**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02644**	0.32940	**0.04187**	2.50740	**0.16776**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.02033**	0.32940	**0.03460**	2.50740	**0.16095**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02894**	0.32940	**0.04322**	2.50740	**0.16891**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.02045**	0.32940	**0.03480**	2.50740	**0.16139**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.02033**	0.32940	**0.03460**	2.50740	**0.16096**
	(!RESET_B * !Q * Q_N)	0.01860	**0.02134**	0.32940	**0.03571**	2.50740	**0.16229**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.02043**	0.32940	**0.03481**	2.50740	**0.16139**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01851**	0.32940	**0.03318**	2.50740	**0.15736**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.03354**	0.32940	**0.04875**	2.50740	**0.17736**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02644**	0.32940	**0.04187**	2.50740	**0.16776**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.03767**	0.32940	**0.05308**	2.50740	**0.17913**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01874**	0.32940	**0.03337**	2.50740	**0.15740**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01851**	0.32940	**0.03318**	2.50740	**0.15736**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01872**	0.32940	**0.03337**	2.50740	**0.15739**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01873**	0.32940	**0.03337**	2.50740	**0.15740**

TIE0

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	1134.24000	1134.24000	1134.24000

TIE1

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	977.87400	977.87400	977.87400

XNOR2_1

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	0.00609	0.00510	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	683.60100	1834.56000	2725.56000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (RR)	0.01860	0.00100	**0.03577**	0.32940	0.06480	**0.16306**	2.50740	0.30000	**0.59044**
	A->Y (FR)	0.01860	0.00100	**0.02676**	0.32940	0.06480	**0.27028**	2.50740	0.30000	**1.36389**
	B->Y (RR)	0.01860	0.00100	**0.03349**	0.32940	0.06480	**0.17085**	2.50740	0.30000	**0.64336**
	B->Y (FR)	0.01860	0.00100	**0.02405**	0.32940	0.06480	**0.30216**	2.50740	0.30000	**1.60494**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (FF)	0.01860	0.00100	**0.03619**	0.32940	0.06480	**0.21652**	2.50740	0.30000	**0.81854**
	A->Y (RF)	0.01860	0.00100	**0.02470**	0.32940	0.06480	**0.23627**	2.50740	0.30000	**1.21378**
	B->Y (FF)	0.01860	0.00100	**0.03616**	0.32940	0.06480	**0.20792**	2.50740	0.30000	**0.77092**
	B->Y (RF)	0.01860	0.00100	**0.02041**	0.32940	0.06480	**0.23061**	2.50740	0.30000	**1.19723**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.01484**	0.32940	0.06480	**0.02381**	2.50740	0.30000	**0.11064**
	B	0.01860	0.00100	**0.01451**	0.32940	0.06480	**0.02350**	2.50740	0.30000	**0.10762**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.01336**	0.32940	0.06480	**0.02370**	2.50740	0.30000	**0.10961**
	B	0.01860	0.00100	**0.01438**	0.32940	0.06480	**0.02243**	2.50740	0.30000	**0.10648**

XOR2_1

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	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00624	0.00524	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	1083.34000	1605.44000	2318.28000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (RR)	0.01860	0.00100	**0.03635**	0.32940	0.06480	**0.25271**	2.50740	0.30000	**0.98247**
	A->X (FR)	0.01860	0.00100	**0.02966**	0.32940	0.06480	**0.27420**	2.50740	0.30000	**1.37359**
	B->X (RR)	0.01860	0.00100	**0.03712**	0.32940	0.06480	**0.24237**	2.50740	0.30000	**0.91390**
	B->X (FR)	0.01860	0.00100	**0.02488**	0.32940	0.06480	**0.26857**	2.50740	0.30000	**1.35980**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (FF)	0.01860	0.00100	**0.04053**	0.32940	0.06480	**0.15856**	2.50740	0.30000	**0.55133**
	A->X (RF)	0.01860	0.00100	**0.02347**	0.32940	0.06480	**0.23447**	2.50740	0.30000	**1.20457**
	B->X (FF)	0.01860	0.00100	**0.03781**	0.32940	0.06480	**0.16945**	2.50740	0.30000	**0.61354**
	B->X (RF)	0.01860	0.00100	**0.02122**	0.32940	0.06480	**0.26209**	2.50740	0.30000	**1.40025**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.01257**	0.32940	0.06480	**0.02195**	2.50740	0.30000	**0.10783**
	B	0.01860	0.00100	**0.01329**	0.32940	0.06480	**0.02066**	2.50740	0.30000	**0.10267**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.01696**	0.32940	0.06480	**0.02538**	2.50740	0.30000	**0.11054**
	B	0.01860	0.00100	**0.01562**	0.32940	0.06480	**0.02519**	2.50740	0.30000	**0.10573**