sg13g2_stdcell_typ_1p20V_25C Library

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

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

A21OIx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21oi_1	9.07200
sg13g2_a21oi_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_a21oi_1	0.00301	0.00305	0.00288	0.30000
sg13g2_a21oi_2	0.00581	0.00608	0.00564	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_1	86.91950	114.47700	146.03000
sg13g2_a21oi_2	173.81800	228.94500	292.05800

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.04691**	0.32940	0.06480	**0.53690**	2.50740	0.30000	**2.69387**
	A2->Y (FR)	0.01860	0.00100	**0.05494**	0.32940	0.06480	**0.54629**	2.50740	0.30000	**2.70578**
	B1->Y (FR)	0.01860	0.00100	**0.04426**	0.32940	0.06480	**0.56081**	2.50740	0.30000	**2.91669**
sg13g2_a21oi_2	A1->Y (FR)	0.01860	0.00100	**0.04269**	0.32940	0.12960	**0.53745**	2.50740	0.60000	**2.69879**
	A2->Y (FR)	0.01860	0.00100	**0.05101**	0.32940	0.12960	**0.54543**	2.50740	0.60000	**2.70487**
	B1->Y (FR)	0.01860	0.00100	**0.04020**	0.32940	0.12960	**0.56002**	2.50740	0.60000	**2.91469**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.03949**	0.32940	0.06480	**0.46742**	2.50740	0.30000	**2.48437**
	A2->Y (RF)	0.01860	0.00100	**0.04373**	0.32940	0.06480	**0.44985**	2.50740	0.30000	**2.33171**
	B1->Y (RF)	0.01860	0.00100	**0.02226**	0.32940	0.06480	**0.34095**	2.50740	0.30000	**1.93339**
sg13g2_a21oi_2	A1->Y (RF)	0.01860	0.00100	**0.03610**	0.32940	0.12960	**0.46691**	2.50740	0.60000	**2.48590**
	A2->Y (RF)	0.01860	0.00100	**0.04072**	0.32940	0.12960	**0.44997**	2.50740	0.60000	**2.33289**
	B1->Y (RF)	0.01860	0.00100	**0.02004**	0.32940	0.12960	**0.34005**	2.50740	0.60000	**1.93116**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.04426**	0.32940	0.06480	**0.56081**	2.50740	0.30000	**2.91669**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03489**	0.32940	0.06480	**0.54966**	2.50740	0.30000	**2.90085**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.02882**	0.32940	0.06480	**0.45698**	2.50740	0.30000	**2.48663**
sg13g2_a21oi_2	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.04020**	0.32940	0.12960	**0.56002**	2.50740	0.60000	**2.91469**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03070**	0.32940	0.12960	**0.55079**	2.50740	0.60000	**2.90933**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.02563**	0.32940	0.12960	**0.45698**	2.50740	0.60000	**2.48944**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02226**	0.32940	0.06480	**0.34095**	2.50740	0.30000	**1.93339**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02201**	0.32940	0.06480	**0.34025**	2.50740	0.30000	**1.93109**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.02178**	0.32940	0.06480	**0.33994**	2.50740	0.30000	**1.93077**
sg13g2_a21oi_2	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02004**	0.32940	0.12960	**0.34005**	2.50740	0.60000	**1.93116**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01979**	0.32940	0.12960	**0.33970**	2.50740	0.60000	**1.92875**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01954**	0.32940	0.12960	**0.33940**	2.50740	0.60000	**1.92861**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00445**	0.32940	0.06480	**0.00439**	2.50740	0.30000	**0.00495**
	A2	0.01860	0.00100	**0.00467**	0.32940	0.06480	**0.00448**	2.50740	0.30000	**0.00497**
	B1	0.01860	0.00100	**0.00220**	0.32940	0.06480	**0.00244**	2.50740	0.30000	**0.00312**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.00887**	0.32940	0.12960	**0.00887**	2.50740	0.60000	**0.00985**
	A2	0.01860	0.00100	**0.00943**	0.32940	0.12960	**0.00907**	2.50740	0.60000	**0.01028**
	B1	0.01860	0.00100	**0.00431**	0.32940	0.12960	**0.00486**	2.50740	0.60000	**0.00624**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00313**	0.32940	0.06480	**0.00297**	2.50740	0.30000	**0.00360**
	A2	0.01860	0.00100	**0.00473**	0.32940	0.06480	**0.00453**	2.50740	0.30000	**0.00509**
	B1	0.01860	0.00100	**0.00180**	0.32940	0.06480	**0.00204**	2.50740	0.30000	**0.00318**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.00560**	0.32940	0.12960	**0.00528**	2.50740	0.60000	**0.00688**
	A2	0.01860	0.00100	**0.00898**	0.32940	0.12960	**0.00853**	2.50740	0.60000	**0.00958**
	B1	0.01860	0.00100	**0.00286**	0.32940	0.12960	**0.00355**	2.50740	0.60000	**0.00567**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00252**	0.32940	0.06480	**0.00248**	2.50740	0.30000	**0.00347**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00221**	0.32940	0.06480	**0.00229**	2.50740	0.30000	**0.00329**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00220**	0.32940	0.06480	**0.00244**	2.50740	0.30000	**0.00312**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00515**	0.32940	0.12960	**0.00515**	2.50740	0.60000	**0.00709**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00431**	0.32940	0.12960	**0.00461**	2.50740	0.60000	**0.00666**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00431**	0.32940	0.12960	**0.00486**	2.50740	0.60000	**0.00624**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00343**	0.32940	0.06480	**0.00364**	2.50740	0.30000	**0.00466**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00180**	0.32940	0.06480	**0.00204**	2.50740	0.30000	**0.00318**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00174**	0.32940	0.06480	**0.00191**	2.50740	0.30000	**0.00322**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00611**	0.32940	0.12960	**0.00660**	2.50740	0.60000	**0.00874**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00286**	0.32940	0.12960	**0.00355**	2.50740	0.60000	**0.00567**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00273**	0.32940	0.12960	**0.00330**	2.50740	0.60000	**0.00554**

A21Ox

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21o_1	12.70080
sg13g2_a21o_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_1	0.00272	0.00281	0.00263	0.30000
sg13g2_a21o_2	0.00290	0.00289	0.00275	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	127.38800	158.29600	178.01100
sg13g2_a21o_2	183.49100	224.28900	271.21000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.08077**	0.32940	0.06480	**0.36899**	2.50740	0.30000	**1.27636**
	A2->X (RR)	0.01860	0.00100	**0.08469**	0.32940	0.06480	**0.36880**	2.50740	0.30000	**1.28164**
	B1->X (RR)	0.01860	0.00100	**0.05289**	0.32940	0.06480	**0.32766**	2.50740	0.30000	**1.19448**
sg13g2_a21o_2	A1->X (RR)	0.01860	0.00100	**0.08637**	0.32940	0.12960	**0.39012**	2.50740	0.60000	**1.31165**
	A2->X (RR)	0.01860	0.00100	**0.09007**	0.32940	0.12960	**0.38720**	2.50740	0.60000	**1.31298**
	B1->X (RR)	0.01860	0.00100	**0.05595**	0.32940	0.12960	**0.34675**	2.50740	0.60000	**1.23009**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.09203**	0.32940	0.06480	**0.33606**	2.50740	0.30000	**1.06228**
	A2->X (FF)	0.01860	0.00100	**0.10055**	0.32940	0.06480	**0.35094**	2.50740	0.30000	**1.09324**
	B1->X (FF)	0.01860	0.00100	**0.09014**	0.32940	0.06480	**0.34493**	2.50740	0.30000	**1.10286**
sg13g2_a21o_2	A1->X (FF)	0.01860	0.00100	**0.11617**	0.32940	0.12960	**0.38470**	2.50740	0.60000	**1.17771**
	A2->X (FF)	0.01860	0.00100	**0.12569**	0.32940	0.12960	**0.40004**	2.50740	0.60000	**1.20977**
	B1->X (FF)	0.01860	0.00100	**0.11574**	0.32940	0.12960	**0.40156**	2.50740	0.60000	**1.23948**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	!B1	0.01860	0.00100	**0.08077**	0.32940	0.06480	**0.36899**	2.50740	0.30000	**1.27636**
	A2->X (RR)	!B1	0.01860	0.00100	**0.08469**	0.32940	0.06480	**0.36880**	2.50740	0.30000	**1.28164**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.05289**	0.32940	0.06480	**0.32766**	2.50740	0.30000	**1.19448**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.04982**	0.32940	0.06480	**0.31498**	2.50740	0.30000	**1.15530**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.04961**	0.32940	0.06480	**0.31505**	2.50740	0.30000	**1.16352**
sg13g2_a21o_2	A1->X (RR)	!B1	0.01860	0.00100	**0.08637**	0.32940	0.12960	**0.39012**	2.50740	0.60000	**1.31165**
	A2->X (RR)	!B1	0.01860	0.00100	**0.09007**	0.32940	0.12960	**0.38720**	2.50740	0.60000	**1.31298**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.05595**	0.32940	0.12960	**0.34675**	2.50740	0.60000	**1.23009**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.05372**	0.32940	0.12960	**0.33520**	2.50740	0.60000	**1.19567**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.05354**	0.32940	0.12960	**0.33474**	2.50740	0.60000	**1.20305**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	!B1	0.01860	0.00100	**0.09203**	0.32940	0.06480	**0.33606**	2.50740	0.30000	**1.06228**
	A2->X (FF)	!B1	0.01860	0.00100	**0.10055**	0.32940	0.06480	**0.35094**	2.50740	0.30000	**1.09324**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.09014**	0.32940	0.06480	**0.34493**	2.50740	0.30000	**1.10286**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.08002**	0.32940	0.06480	**0.32648**	2.50740	0.30000	**1.06625**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.06603**	0.32940	0.06480	**0.30594**	2.50740	0.30000	**1.02256**
sg13g2_a21o_2	A1->X (FF)	!B1	0.01860	0.00100	**0.11617**	0.32940	0.12960	**0.38470**	2.50740	0.60000	**1.17771**
	A2->X (FF)	!B1	0.01860	0.00100	**0.12569**	0.32940	0.12960	**0.40004**	2.50740	0.60000	**1.20977**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.11574**	0.32940	0.12960	**0.40156**	2.50740	0.60000	**1.23948**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.10414**	0.32940	0.12960	**0.38321**	2.50740	0.60000	**1.20061**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.08379**	0.32940	0.12960	**0.35383**	2.50740	0.60000	**1.14554**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00722**	0.32940	0.06480	**0.00727**	2.50740	0.30000	**0.01252**
	A2	0.01860	0.00100	**0.00865**	0.32940	0.06480	**0.00857**	2.50740	0.30000	**0.01291**
	B1	0.01860	0.00100	**0.00614**	0.32940	0.06480	**0.00629**	2.50740	0.30000	**0.01269**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.01112**	0.32940	0.12960	**0.01144**	2.50740	0.60000	**0.01682**
	A2	0.01860	0.00100	**0.01269**	0.32940	0.12960	**0.01299**	2.50740	0.60000	**0.01726**
	B1	0.01860	0.00100	**0.01003**	0.32940	0.12960	**0.01028**	2.50740	0.60000	**0.01698**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00827**	0.32940	0.06480	**0.00834**	2.50740	0.30000	**0.01312**
	A2	0.01860	0.00100	**0.00822**	0.32940	0.06480	**0.00838**	2.50740	0.30000	**0.01260**
	B1	0.01860	0.00100	**0.00631**	0.32940	0.06480	**0.00674**	2.50740	0.30000	**0.01300**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.01205**	0.32940	0.12960	**0.01219**	2.50740	0.60000	**0.01721**
	A2	0.01860	0.00100	**0.01210**	0.32940	0.12960	**0.01239**	2.50740	0.60000	**0.01698**
	B1	0.01860	0.00100	**0.01004**	0.32940	0.12960	**0.01065**	2.50740	0.60000	**0.01703**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.00722**	0.32940	0.06480	**0.00727**	2.50740	0.30000	**0.01252**
	A2	!B1	0.01860	0.00100	**0.00865**	0.32940	0.06480	**0.00857**	2.50740	0.30000	**0.01291**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00761**	0.32940	0.06480	**0.00773**	2.50740	0.30000	**0.01391**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00621**	0.32940	0.06480	**0.00624**	2.50740	0.30000	**0.01246**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00614**	0.32940	0.06480	**0.00629**	2.50740	0.30000	**0.01269**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.01112**	0.32940	0.12960	**0.01144**	2.50740	0.60000	**0.01682**
	A2	!B1	0.01860	0.00100	**0.01269**	0.32940	0.12960	**0.01299**	2.50740	0.60000	**0.01726**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01171**	0.32940	0.12960	**0.01218**	2.50740	0.60000	**0.01839**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01009**	0.32940	0.12960	**0.01033**	2.50740	0.60000	**0.01659**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01003**	0.32940	0.12960	**0.01028**	2.50740	0.60000	**0.01698**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.00827**	0.32940	0.06480	**0.00834**	2.50740	0.30000	**0.01312**
	A2	!B1	0.01860	0.00100	**0.00822**	0.32940	0.06480	**0.00838**	2.50740	0.30000	**0.01260**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00641**	0.32940	0.06480	**0.00678**	2.50740	0.30000	**0.01263**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00631**	0.32940	0.06480	**0.00674**	2.50740	0.30000	**0.01300**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00632**	0.32940	0.06480	**0.00687**	2.50740	0.30000	**0.01319**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.01205**	0.32940	0.12960	**0.01219**	2.50740	0.60000	**0.01721**
	A2	!B1	0.01860	0.00100	**0.01210**	0.32940	0.12960	**0.01239**	2.50740	0.60000	**0.01698**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01028**	0.32940	0.12960	**0.01071**	2.50740	0.60000	**0.01707**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01011**	0.32940	0.12960	**0.01058**	2.50740	0.60000	**0.01702**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01004**	0.32940	0.12960	**0.01065**	2.50740	0.60000	**0.01703**

A221OI

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a221oi_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A1	A2	B1	B2	C1	Y
sg13g2_a221oi_1	0.00297	0.00300	0.00292	0.00302	0.00286	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	112.17000	157.85600	191.47900

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (FR)	0.01860	0.00100	**0.10679**	0.32940	0.06480	**0.77038**	2.50740	0.30000	**3.43885**
	A2->Y (FR)	0.01860	0.00100	**0.11862**	0.32940	0.06480	**0.78221**	2.50740	0.30000	**3.44898**
	B1->Y (FR)	0.01860	0.00100	**0.09544**	0.32940	0.06480	**0.77256**	2.50740	0.30000	**3.62550**
	B2->Y (FR)	0.01860	0.00100	**0.10734**	0.32940	0.06480	**0.78406**	2.50740	0.30000	**3.63470**
	C1->Y (FR)	0.01860	0.00100	**0.06084**	0.32940	0.06480	**0.66322**	2.50740	0.30000	**3.33436**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (RF)	0.01860	0.00100	**0.05131**	0.32940	0.06480	**0.48809**	2.50740	0.30000	**2.51316**
	A2->Y (RF)	0.01860	0.00100	**0.05520**	0.32940	0.06480	**0.47036**	2.50740	0.30000	**2.35952**
	B1->Y (RF)	0.01860	0.00100	**0.04570**	0.32940	0.06480	**0.47495**	2.50740	0.30000	**2.49803**
	B2->Y (RF)	0.01860	0.00100	**0.04989**	0.32940	0.06480	**0.45770**	2.50740	0.30000	**2.34459**
	C1->Y (RF)	0.01860	0.00100	**0.02504**	0.32940	0.06480	**0.34402**	2.50740	0.30000	**1.93594**

Delay(ns) to Y rising (conditional):

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

sg13g2_a221oi_1	**A1->Y (FR)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.10679**	0.32940	0.06480	**0.77038**	2.50740	0.30000	**3.43885**
	A1->Y (FR)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.09232**	0.32940	0.06480	**0.75642**	2.50740	0.30000	**3.42841**
	A1->Y (FR)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.08290**	0.32940	0.06480	**0.66136**	2.50740	0.30000	**3.06209**
	A2->Y (FR)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.11862**	0.32940	0.06480	**0.78221**	2.50740	0.30000	**3.44898**
	A2->Y (FR)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.10457**	0.32940	0.06480	**0.76838**	2.50740	0.30000	**3.43859**
	A2->Y (FR)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.09278**	0.32940	0.06480	**0.67095**	2.50740	0.30000	**3.06945**
	B1->Y (FR)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.09544**	0.32940	0.06480	**0.77256**	2.50740	0.30000	**3.62550**
	B1->Y (FR)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.08093**	0.32940	0.06480	**0.75809**	2.50740	0.30000	**3.61398**
	B1->Y (FR)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.06770**	0.32940	0.06480	**0.65164**	2.50740	0.30000	**3.16207**
	B2->Y (FR)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.10734**	0.32940	0.06480	**0.78406**	2.50740	0.30000	**3.63470**
	B2->Y (FR)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.09318**	0.32940	0.06480	**0.76976**	2.50740	0.30000	**3.62346**
	B2->Y (FR)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.07749**	0.32940	0.06480	**0.66087**	2.50740	0.30000	**3.16880**
	C1->Y (FR)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.05796**	0.32940	0.06480	**0.66077**	2.50740	0.30000	**3.33267**
	C1->Y (FR)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.04607**	0.32940	0.06480	**0.64892**	2.50740	0.30000	**3.32405**
	C1->Y (FR)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.06084**	0.32940	0.06480	**0.66322**	2.50740	0.30000	**3.33436**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.04900**	0.32940	0.06480	**0.65234**	2.50740	0.30000	**3.33034**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.04069**	0.32940	0.06480	**0.55482**	2.50740	0.30000	**2.90800**

Delay(ns) to Y falling (conditional):

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

sg13g2_a221oi_1	**A1->Y (RF)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.04985**	0.32940	0.06480	**0.48633**	2.50740	0.30000	**2.51313**
	A1->Y (RF)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.04923**	0.32940	0.06480	**0.48490**	2.50740	0.30000	**2.50934**
	A1->Y (RF)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.05131**	0.32940	0.06480	**0.48809**	2.50740	0.30000	**2.51316**
	A2->Y (RF)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.05376**	0.32940	0.06480	**0.46852**	2.50740	0.30000	**2.35904**
	A2->Y (RF)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.05313**	0.32940	0.06480	**0.46716**	2.50740	0.30000	**2.35546**
	A2->Y (RF)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.05520**	0.32940	0.06480	**0.47036**	2.50740	0.30000	**2.35952**
	B1->Y (RF)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.04570**	0.32940	0.06480	**0.47495**	2.50740	0.30000	**2.49803**
	B1->Y (RF)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.04522**	0.32940	0.06480	**0.47365**	2.50740	0.30000	**2.49412**
	B1->Y (RF)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.04489**	0.32940	0.06480	**0.47324**	2.50740	0.30000	**2.49380**
	B2->Y (RF)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.04989**	0.32940	0.06480	**0.45770**	2.50740	0.30000	**2.34459**
	B2->Y (RF)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.04942**	0.32940	0.06480	**0.45641**	2.50740	0.30000	**2.34135**
	B2->Y (RF)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.04907**	0.32940	0.06480	**0.45574**	2.50740	0.30000	**2.34104**
	C1->Y (RF)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.02504**	0.32940	0.06480	**0.34402**	2.50740	0.30000	**1.93594**
	C1->Y (RF)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.02482**	0.32940	0.06480	**0.34334**	2.50740	0.30000	**1.93434**
	C1->Y (RF)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.02517**	0.32940	0.06480	**0.34402**	2.50740	0.30000	**1.93593**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.02496**	0.32940	0.06480	**0.34336**	2.50740	0.30000	**1.93421**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.02478**	0.32940	0.06480	**0.34310**	2.50740	0.30000	**1.93428**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.00815**	0.32940	0.06480	**0.00800**	2.50740	0.30000	**0.00828**
	A2	0.01860	0.00100	**0.00827**	0.32940	0.06480	**0.00808**	2.50740	0.30000	**0.00866**
	B1	0.01860	0.00100	**0.00605**	0.32940	0.06480	**0.00593**	2.50740	0.30000	**0.00683**
	B2	0.01860	0.00100	**0.00618**	0.32940	0.06480	**0.00600**	2.50740	0.30000	**0.00693**
	C1	0.01860	0.00100	**0.00379**	0.32940	0.06480	**0.00379**	2.50740	0.30000	**0.00482**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.00492**	0.32940	0.06480	**0.00465**	2.50740	0.30000	**0.00522**
	A2	0.01860	0.00100	**0.00647**	0.32940	0.06480	**0.00619**	2.50740	0.30000	**0.00670**
	B1	0.01860	0.00100	**0.00330**	0.32940	0.06480	**0.00312**	2.50740	0.30000	**0.00364**
	B2	0.01860	0.00100	**0.00494**	0.32940	0.06480	**0.00475**	2.50740	0.30000	**0.00523**
	C1	0.01860	0.00100	**0.00193**	0.32940	0.06480	**0.00206**	2.50740	0.30000	**0.00313**

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

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

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00815**	0.32940	0.06480	**0.00800**	2.50740	0.30000	**0.00828**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00788**	0.32940	0.06480	**0.00776**	2.50740	0.30000	**0.00841**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00975**	0.32940	0.06480	**0.00962**	2.50740	0.30000	**0.01003**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00827**	0.32940	0.06480	**0.00808**	2.50740	0.30000	**0.00866**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00805**	0.32940	0.06480	**0.00790**	2.50740	0.30000	**0.00833**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00990**	0.32940	0.06480	**0.00972**	2.50740	0.30000	**0.01050**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00632**	0.32940	0.06480	**0.00609**	2.50740	0.30000	**0.00664**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.00606**	0.32940	0.06480	**0.00594**	2.50740	0.30000	**0.00638**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00605**	0.32940	0.06480	**0.00593**	2.50740	0.30000	**0.00683**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00641**	0.32940	0.06480	**0.00621**	2.50740	0.30000	**0.00650**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.00618**	0.32940	0.06480	**0.00604**	2.50740	0.30000	**0.00643**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00618**	0.32940	0.06480	**0.00600**	2.50740	0.30000	**0.00693**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00407**	0.32940	0.06480	**0.00404**	2.50740	0.30000	**0.00525**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00379**	0.32940	0.06480	**0.00381**	2.50740	0.30000	**0.00534**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00408**	0.32940	0.06480	**0.00405**	2.50740	0.30000	**0.00548**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00379**	0.32940	0.06480	**0.00382**	2.50740	0.30000	**0.00533**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00379**	0.32940	0.06480	**0.00379**	2.50740	0.30000	**0.00482**

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

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

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00655**	0.32940	0.06480	**0.00626**	2.50740	0.30000	**0.00682**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00492**	0.32940	0.06480	**0.00465**	2.50740	0.30000	**0.00522**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00406**	0.32940	0.06480	**0.00377**	2.50740	0.30000	**0.00434**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00809**	0.32940	0.06480	**0.00781**	2.50740	0.30000	**0.00814**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00647**	0.32940	0.06480	**0.00619**	2.50740	0.30000	**0.00670**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00562**	0.32940	0.06480	**0.00532**	2.50740	0.30000	**0.00572**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00492**	0.32940	0.06480	**0.00477**	2.50740	0.30000	**0.00532**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.00330**	0.32940	0.06480	**0.00312**	2.50740	0.30000	**0.00364**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00324**	0.32940	0.06480	**0.00303**	2.50740	0.30000	**0.00364**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00657**	0.32940	0.06480	**0.00638**	2.50740	0.30000	**0.00675**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.00494**	0.32940	0.06480	**0.00475**	2.50740	0.30000	**0.00523**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00488**	0.32940	0.06480	**0.00465**	2.50740	0.30000	**0.00513**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00351**	0.32940	0.06480	**0.00371**	2.50740	0.30000	**0.00476**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00189**	0.32940	0.06480	**0.00207**	2.50740	0.30000	**0.00314**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00355**	0.32940	0.06480	**0.00373**	2.50740	0.30000	**0.00475**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00193**	0.32940	0.06480	**0.00206**	2.50740	0.30000	**0.00313**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00188**	0.32940	0.06480	**0.00199**	2.50740	0.30000	**0.00316**

A22OI

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a22oi_1	10.84860

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A1	A2	B1	B2	Y
sg13g2_a22oi_1	0.00310	0.00310	0.00304	0.00302	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	86.74850	138.88500	210.36700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	0.01860	0.00100	**0.05405**	0.32940	0.06480	**0.54502**	2.50740	0.30000	**2.70032**
	A2->Y (FR)	0.01860	0.00100	**0.06142**	0.32940	0.06480	**0.55209**	2.50740	0.30000	**2.70573**
	B1->Y (FR)	0.01860	0.00100	**0.05703**	0.32940	0.06480	**0.57274**	2.50740	0.30000	**2.92639**
	B2->Y (FR)	0.01860	0.00100	**0.04888**	0.32940	0.06480	**0.56301**	2.50740	0.30000	**2.91053**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	0.01860	0.00100	**0.04449**	0.32940	0.06480	**0.47325**	2.50740	0.30000	**2.49095**
	A2->Y (RF)	0.01860	0.00100	**0.04838**	0.32940	0.06480	**0.45527**	2.50740	0.30000	**2.33876**
	B1->Y (RF)	0.01860	0.00100	**0.03929**	0.32940	0.06480	**0.44358**	2.50740	0.30000	**2.32554**
	B2->Y (RF)	0.01860	0.00100	**0.03460**	0.32940	0.06480	**0.46103**	2.50740	0.30000	**2.47893**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	(A2 * B1)	0.01860	0.00100	**0.05405**	0.32940	0.06480	**0.54502**	2.50740	0.30000	**2.70032**
	A2->Y (FR)	(A1 * B1)	0.01860	0.00100	**0.06142**	0.32940	0.06480	**0.55209**	2.50740	0.30000	**2.70573**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.05703**	0.32940	0.06480	**0.57274**	2.50740	0.30000	**2.92639**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.04796**	0.32940	0.06480	**0.56188**	2.50740	0.30000	**2.90979**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.04888**	0.32940	0.06480	**0.56301**	2.50740	0.30000	**2.91053**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03986**	0.32940	0.06480	**0.55468**	2.50740	0.30000	**2.90611**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	(A2 * B1)	0.01860	0.00100	**0.04449**	0.32940	0.06480	**0.47325**	2.50740	0.30000	**2.49095**
	A2->Y (RF)	(A1 * B1)	0.01860	0.00100	**0.04838**	0.32940	0.06480	**0.45527**	2.50740	0.30000	**2.33876**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.03929**	0.32940	0.06480	**0.44358**	2.50740	0.30000	**2.32554**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03887**	0.32940	0.06480	**0.44233**	2.50740	0.30000	**2.32188**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.03460**	0.32940	0.06480	**0.46103**	2.50740	0.30000	**2.47893**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03422**	0.32940	0.06480	**0.45974**	2.50740	0.30000	**2.47553**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00472**	0.32940	0.06480	**0.00461**	2.50740	0.30000	**0.00504**
	A2	0.01860	0.00100	**0.00486**	0.32940	0.06480	**0.00465**	2.50740	0.30000	**0.00518**
	B1	0.01860	0.00100	**0.00301**	0.32940	0.06480	**0.00285**	2.50740	0.30000	**0.00371**
	B2	0.01860	0.00100	**0.00282**	0.32940	0.06480	**0.00274**	2.50740	0.30000	**0.00358**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00470**	0.32940	0.06480	**0.00447**	2.50740	0.30000	**0.00512**
	A2	0.01860	0.00100	**0.00626**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.00656**
	B1	0.01860	0.00100	**0.00600**	0.32940	0.06480	**0.00599**	2.50740	0.30000	**0.00648**
	B2	0.01860	0.00100	**0.00434**	0.32940	0.06480	**0.00444**	2.50740	0.30000	**0.00507**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00472**	0.32940	0.06480	**0.00461**	2.50740	0.30000	**0.00504**
	A2	(A1 * B1)	0.01860	0.00100	**0.00486**	0.32940	0.06480	**0.00465**	2.50740	0.30000	**0.00518**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00301**	0.32940	0.06480	**0.00285**	2.50740	0.30000	**0.00371**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00285**	0.32940	0.06480	**0.00273**	2.50740	0.30000	**0.00367**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00282**	0.32940	0.06480	**0.00274**	2.50740	0.30000	**0.00358**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00259**	0.32940	0.06480	**0.00264**	2.50740	0.30000	**0.00350**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00470**	0.32940	0.06480	**0.00447**	2.50740	0.30000	**0.00512**
	A2	(A1 * B1)	0.01860	0.00100	**0.00626**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.00656**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00600**	0.32940	0.06480	**0.00599**	2.50740	0.30000	**0.00648**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00436**	0.32940	0.06480	**0.00439**	2.50740	0.30000	**0.00498**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00434**	0.32940	0.06480	**0.00444**	2.50740	0.30000	**0.00507**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00271**	0.32940	0.06480	**0.00282**	2.50740	0.30000	**0.00352**

AND2x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and2_1	9.07200
sg13g2_and2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_1	0.00254	0.00254	0.30000
sg13g2_and2_2	0.00254	0.00255	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	117.08400	137.61100	177.21900
sg13g2_and2_2	199.48800	210.32000	220.80400

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.06630**	0.32940	0.06480	**0.33800**	2.50740	0.30000	**1.20220**
	B->X (RR)	0.01860	0.00100	**0.07086**	0.32940	0.06480	**0.34198**	2.50740	0.30000	**1.21220**
sg13g2_and2_2	A->X (RR)	0.01860	0.00100	**0.08208**	0.32940	0.12960	**0.38244**	2.50740	0.60000	**1.30447**
	B->X (RR)	0.01860	0.00100	**0.08638**	0.32940	0.12960	**0.38125**	2.50740	0.60000	**1.30546**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.05638**	0.32940	0.06480	**0.29571**	2.50740	0.30000	**1.01289**
	B->X (FF)	0.01860	0.00100	**0.06144**	0.32940	0.06480	**0.30994**	2.50740	0.30000	**1.04597**
sg13g2_and2_2	A->X (FF)	0.01860	0.00100	**0.06972**	0.32940	0.12960	**0.33733**	2.50740	0.60000	**1.11755**
	B->X (FF)	0.01860	0.00100	**0.07450**	0.32940	0.12960	**0.34939**	2.50740	0.60000	**1.14748**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.00652**	0.32940	0.06480	**0.00670**	2.50740	0.30000	**0.01249**
	B	0.01860	0.00100	**0.00795**	0.32940	0.06480	**0.00787**	2.50740	0.30000	**0.01267**
sg13g2_and2_2	A	0.01860	0.00100	**0.01040**	0.32940	0.12960	**0.01062**	2.50740	0.60000	**0.01573**
	B	0.01860	0.00100	**0.01175**	0.32940	0.12960	**0.01200**	2.50740	0.60000	**0.01610**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.00564**	0.32940	0.06480	**0.00598**	2.50740	0.30000	**0.01169**
	B	0.01860	0.00100	**0.00577**	0.32940	0.06480	**0.00619**	2.50740	0.30000	**0.01155**
sg13g2_and2_2	A	0.01860	0.00100	**0.00925**	0.32940	0.12960	**0.00974**	2.50740	0.60000	**0.01535**
	B	0.01860	0.00100	**0.00935**	0.32940	0.12960	**0.00997**	2.50740	0.60000	**0.01499**

AND3x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and3_1	12.70080
sg13g2_and3_2	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_1	0.00254	0.00251	0.00252	0.30000
sg13g2_and3_2	0.00255	0.00252	0.00253	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	119.09700	146.66200	244.07100
sg13g2_and3_2	201.52900	224.22500	287.63800

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.08990**	0.32940	0.06480	**0.37443**	2.50740	0.30000	**1.27672**
	B->X (RR)	0.01860	0.00100	**0.09910**	0.32940	0.06480	**0.38374**	2.50740	0.30000	**1.29170**
	C->X (RR)	0.01860	0.00100	**0.10297**	0.32940	0.06480	**0.38114**	2.50740	0.30000	**1.27002**
sg13g2_and3_2	A->X (RR)	0.01860	0.00100	**0.11206**	0.32940	0.12960	**0.42914**	2.50740	0.60000	**1.39216**
	B->X (RR)	0.01860	0.00100	**0.12109**	0.32940	0.12960	**0.43350**	2.50740	0.60000	**1.39952**
	C->X (RR)	0.01860	0.00100	**0.12501**	0.32940	0.12960	**0.42696**	2.50740	0.60000	**1.36764**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.06033**	0.32940	0.06480	**0.30569**	2.50740	0.30000	**1.03049**
	B->X (FF)	0.01860	0.00100	**0.06566**	0.32940	0.06480	**0.31910**	2.50740	0.30000	**1.06211**
	C->X (FF)	0.01860	0.00100	**0.06912**	0.32940	0.06480	**0.32953**	2.50740	0.30000	**1.09372**
sg13g2_and3_2	A->X (FF)	0.01860	0.00100	**0.07315**	0.32940	0.12960	**0.34572**	2.50740	0.60000	**1.13512**
	B->X (FF)	0.01860	0.00100	**0.07830**	0.32940	0.12960	**0.35718**	2.50740	0.60000	**1.16273**
	C->X (FF)	0.01860	0.00100	**0.08197**	0.32940	0.12960	**0.36656**	2.50740	0.60000	**1.19032**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.00744**	0.32940	0.06480	**0.00750**	2.50740	0.30000	**0.01266**
	B	0.01860	0.00100	**0.00882**	0.32940	0.06480	**0.00879**	2.50740	0.30000	**0.01290**
	C	0.01860	0.00100	**0.01010**	0.32940	0.06480	**0.01005**	2.50740	0.30000	**0.01375**
sg13g2_and3_2	A	0.01860	0.00100	**0.01144**	0.32940	0.12960	**0.01165**	2.50740	0.60000	**0.01613**
	B	0.01860	0.00100	**0.01279**	0.32940	0.12960	**0.01298**	2.50740	0.60000	**0.01644**
	C	0.01860	0.00100	**0.01409**	0.32940	0.12960	**0.01425**	2.50740	0.60000	**0.01765**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.00576**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.01135**
	B	0.01860	0.00100	**0.00596**	0.32940	0.06480	**0.00617**	2.50740	0.30000	**0.01133**
	C	0.01860	0.00100	**0.00609**	0.32940	0.06480	**0.00633**	2.50740	0.30000	**0.01128**
sg13g2_and3_2	A	0.01860	0.00100	**0.00934**	0.32940	0.12960	**0.00965**	2.50740	0.60000	**0.01498**
	B	0.01860	0.00100	**0.00952**	0.32940	0.12960	**0.00990**	2.50740	0.60000	**0.01470**
	C	0.01860	0.00100	**0.00968**	0.32940	0.12960	**0.01010**	2.50740	0.60000	**0.01454**

AND4x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and4_1	14.51520
sg13g2_and4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_1	0.00237	0.00250	0.00249	0.00250	0.30000
sg13g2_and4_2	0.00237	0.00249	0.00249	0.00250	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	121.25200	151.90900	310.93500
sg13g2_and4_2	203.66200	231.88900	354.47500

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.11378**	0.32940	0.06480	**0.41098**	2.50740	0.30000	**1.34550**
	B->X (RR)	0.01860	0.00100	**0.12758**	0.32940	0.06480	**0.42413**	2.50740	0.30000	**1.36555**
	C->X (RR)	0.01860	0.00100	**0.13568**	0.32940	0.06480	**0.42628**	2.50740	0.30000	**1.35046**
	D->X (RR)	0.01860	0.00100	**0.13967**	0.32940	0.06480	**0.42559**	2.50740	0.30000	**1.32368**
sg13g2_and4_2	A->X (RR)	0.01860	0.00100	**0.14227**	0.32940	0.12960	**0.47249**	2.50740	0.60000	**1.46315**
	B->X (RR)	0.01860	0.00100	**0.15585**	0.32940	0.12960	**0.48238**	2.50740	0.60000	**1.47862**
	C->X (RR)	0.01860	0.00100	**0.16410**	0.32940	0.12960	**0.48089**	2.50740	0.60000	**1.45368**
	D->X (RR)	0.01860	0.00100	**0.16799**	0.32940	0.12960	**0.47814**	2.50740	0.60000	**1.41888**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.06355**	0.32940	0.06480	**0.31126**	2.50740	0.30000	**1.03728**
	B->X (FF)	0.01860	0.00100	**0.06903**	0.32940	0.06480	**0.32478**	2.50740	0.30000	**1.06868**
	C->X (FF)	0.01860	0.00100	**0.07299**	0.32940	0.06480	**0.33474**	2.50740	0.30000	**1.09852**
	D->X (FF)	0.01860	0.00100	**0.07551**	0.32940	0.06480	**0.34353**	2.50740	0.30000	**1.12740**
sg13g2_and4_2	A->X (FF)	0.01860	0.00100	**0.07580**	0.32940	0.12960	**0.35058**	2.50740	0.60000	**1.13875**
	B->X (FF)	0.01860	0.00100	**0.08120**	0.32940	0.12960	**0.36202**	2.50740	0.60000	**1.16820**
	C->X (FF)	0.01860	0.00100	**0.08523**	0.32940	0.12960	**0.37112**	2.50740	0.60000	**1.19506**
	D->X (FF)	0.01860	0.00100	**0.08796**	0.32940	0.12960	**0.37894**	2.50740	0.60000	**1.22016**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.00808**	0.32940	0.06480	**0.00821**	2.50740	0.30000	**0.01288**
	B	0.01860	0.00100	**0.00958**	0.32940	0.06480	**0.00959**	2.50740	0.30000	**0.01334**
	C	0.01860	0.00100	**0.01086**	0.32940	0.06480	**0.01084**	2.50740	0.30000	**0.01435**
	D	0.01860	0.00100	**0.01214**	0.32940	0.06480	**0.01211**	2.50740	0.30000	**0.01505**
sg13g2_and4_2	A	0.01860	0.00100	**0.01226**	0.32940	0.12960	**0.01215**	2.50740	0.60000	**0.01618**
	B	0.01860	0.00100	**0.01372**	0.32940	0.12960	**0.01364**	2.50740	0.60000	**0.01656**
	C	0.01860	0.00100	**0.01505**	0.32940	0.12960	**0.01491**	2.50740	0.60000	**0.01780**
	D	0.01860	0.00100	**0.01628**	0.32940	0.12960	**0.01618**	2.50740	0.60000	**0.01869**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.00609**	0.32940	0.06480	**0.00624**	2.50740	0.30000	**0.01157**
	B	0.01860	0.00100	**0.00621**	0.32940	0.06480	**0.00631**	2.50740	0.30000	**0.01128**
	C	0.01860	0.00100	**0.00639**	0.32940	0.06480	**0.00652**	2.50740	0.30000	**0.01131**
	D	0.01860	0.00100	**0.00657**	0.32940	0.06480	**0.00673**	2.50740	0.30000	**0.01133**
sg13g2_and4_2	A	0.01860	0.00100	**0.00971**	0.32940	0.12960	**0.01007**	2.50740	0.60000	**0.01495**
	B	0.01860	0.00100	**0.00978**	0.32940	0.12960	**0.01018**	2.50740	0.60000	**0.01497**
	C	0.01860	0.00100	**0.01004**	0.32940	0.12960	**0.01034**	2.50740	0.60000	**0.01488**
	D	0.01860	0.00100	**0.01017**	0.32940	0.12960	**0.01061**	2.50740	0.60000	**0.01476**

ANTENNANP

sg13g2_stdcell_typ_1p20V_25C Cell Library:
Process sg13g2_stdcell_typ_1p20V_25C,
Voltage 1.20, Temp 25.00

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00108

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	4.32000	4.32001	4.32002

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**-0.00027**	0.32940	**-0.00028**	2.50740	**-0.00028**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**0.00027**	0.32940	**0.00028**	2.50740	**0.00028**

BUFx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_1	0.00226	0.30000
sg13g2_buf_16	0.01705	4.80000
sg13g2_buf_2	0.00262	0.60000
sg13g2_buf_4	0.00370	1.20000
sg13g2_buf_8	0.00857	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_1	106.64500	110.31700	113.99000
sg13g2_buf_16	1191.03000	1385.39000	1579.74000
sg13g2_buf_2	160.52700	181.54400	202.56200
sg13g2_buf_4	291.93000	337.35400	382.77900
sg13g2_buf_8	595.51200	692.69100	789.86900

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.04970**	0.32940	0.06480	**0.31780**	2.50740	0.30000	**1.17860**
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.05597**	0.32940	1.03680	**0.35011**	2.50740	4.80000	**1.25873**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.05607**	0.32940	0.12960	**0.34436**	2.50740	0.60000	**1.24889**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.07086**	0.32940	0.25920	**0.38491**	2.50740	1.20000	**1.37520**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.05587**	0.32940	0.51840	**0.34900**	2.50740	2.40000	**1.25452**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.05270**	0.32940	0.06480	**0.28721**	2.50740	0.30000	**0.98534**
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.06312**	0.32940	1.03680	**0.32890**	2.50740	4.80000	**1.09220**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.06105**	0.32940	0.12960	**0.31700**	2.50740	0.60000	**1.05872**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.06244**	0.32940	0.25920	**0.32509**	2.50740	1.20000	**1.05667**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.06304**	0.32940	0.51840	**0.32838**	2.50740	2.40000	**1.09411**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00571**	0.32940	0.06480	**0.00591**	2.50740	0.30000	**0.01144**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.07325**	0.32940	1.03680	**0.07631**	2.50740	4.80000	**0.12151**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00971**	0.32940	0.12960	**0.01005**	2.50740	0.60000	**0.01630**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01794**	0.32940	0.25920	**0.01863**	2.50740	1.20000	**0.02643**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.03691**	0.32940	0.51840	**0.03851**	2.50740	2.40000	**0.05990**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00560**	0.32940	0.06480	**0.00612**	2.50740	0.30000	**0.01169**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.07064**	0.32940	1.03680	**0.07693**	2.50740	4.80000	**0.12404**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00940**	0.32940	0.12960	**0.01017**	2.50740	0.60000	**0.01688**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01792**	0.32940	0.25920	**0.01930**	2.50740	1.20000	**0.02838**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.03552**	0.32940	0.51840	**0.03870**	2.50740	2.40000	**0.06175**

DECAPx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	395.59000	395.59000	395.59000
sg13g2_decap_8	791.19800	791.19800	791.19800

DFRBPQx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbpq_1	48.98880
sg13g2_dfrbpq_2	50.80320

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	D	RESET_B	Q
sg13g2_dfrbpq_1	0.00277	0.00142	0.00509	0.30000
sg13g2_dfrbpq_2	0.00278	0.00142	0.00513	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbpq_1	443.21100	510.51700	593.69200
sg13g2_dfrbpq_2	519.83400	573.12100	670.32300

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.15631**	0.32940	0.06480	**0.43864**	2.50740	0.30000	**1.32397**
sg13g2_dfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.16751**	0.32940	0.12960	**0.45597**	2.50740	0.60000	**1.34157**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.15425**	0.32940	0.06480	**0.40046**	2.50740	0.30000	**1.12629**
	RESET_B->Q (FF)	0.01860	0.00100	**0.22146**	0.32940	0.06480	**0.50483**	2.50740	0.30000	**1.40086**
sg13g2_dfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.16677**	0.32940	0.12960	**0.42114**	2.50740	0.60000	**1.14765**
	RESET_B->Q (FF)	0.01860	0.00100	**0.23275**	0.32940	0.12960	**0.52392**	2.50740	0.60000	**1.42082**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.09262**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08942**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.13107**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.13107**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.19968**	2.50740	2.50740	**-0.25973**
	setup	**CLK (R)**	0.01860	0.01860	**0.11248**	1.26300	1.26300	**0.24825**	2.50740	2.50740	**0.30696**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06113**	1.26300	1.26300	**-0.20238**	2.50740	2.50740	**-0.25973**
	setup	**CLK (R)**	0.01860	0.01860	**0.11248**	1.26300	1.26300	**0.24825**	2.50740	2.50740	**0.30696**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03423**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.23612**
	setup	**CLK (R)**	0.01860	0.01860	**0.11248**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.33352**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03423**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.23612**
	setup	**CLK (R)**	0.01860	0.01860	**0.11248**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.33352**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.26984**	2.50740	2.50740	**0.37484**
	removal	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.25634**	2.50740	2.50740	**-0.36304**
sg13g2_dfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.27254**	2.50740	2.50740	**0.37484**
	removal	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.25634**	2.50740	2.50740	**-0.36009**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.11185**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.10864**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	**0.02511**	0.32940	0.06480	**0.02518**	2.50740	0.30000	**0.03344**
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	**0.02839**	0.32940	0.12960	**0.02891**	2.50740	0.60000	**0.03726**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	**0.02596**	0.32940	0.06480	**0.02657**	2.50740	0.30000	**0.03509**
	RESET_B	0.01860	0.00100	**0.01633**	0.32940	0.06480	**0.01672**	2.50740	0.30000	**0.02067**
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	**0.02905**	0.32940	0.12960	**0.03028**	2.50740	0.60000	**0.03882**
	RESET_B	0.01860	0.00100	**0.01935**	0.32940	0.12960	**0.02024**	2.50740	0.60000	**0.02433**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.01104**	0.32940	**0.01091**	2.50740	**0.01899**
sg13g2_dfrbpq_2	0.01860	**0.01110**	0.32940	**0.01097**	2.50740	**0.01903**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.02069**	0.32940	**0.02066**	2.50740	**0.02913**
sg13g2_dfrbpq_2	0.01860	**0.02070**	0.32940	**0.02067**	2.50740	**0.02913**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.01104**	0.32940	**0.01091**	2.50740	**0.01899**
	(D * !RESET_B * !Q)	0.01860	**0.01159**	0.32940	**0.01147**	2.50740	**0.01949**
	(!D * RESET_B * !Q)	0.01860	**0.01081**	0.32940	**0.01069**	2.50740	**0.01873**
	(!D * !RESET_B * !Q)	0.01860	**0.01160**	0.32940	**0.01149**	2.50740	**0.01951**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.01110**	0.32940	**0.01097**	2.50740	**0.01903**
	(D * !RESET_B * !Q)	0.01860	**0.01166**	0.32940	**0.01153**	2.50740	**0.01955**
	(!D * RESET_B * !Q)	0.01860	**0.01089**	0.32940	**0.01075**	2.50740	**0.01879**
	(!D * !RESET_B * !Q)	0.01860	**0.01166**	0.32940	**0.01155**	2.50740	**0.01957**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.02110**	0.32940	**0.02110**	2.50740	**0.02955**
	(D * RESET_B * !Q)	0.01860	**0.02069**	0.32940	**0.02066**	2.50740	**0.02913**
	(D * !RESET_B * !Q)	0.01860	**0.01071**	0.32940	**0.01076**	2.50740	**0.01898**
	(!D * RESET_B * Q)	0.01860	**0.03508**	0.32940	**0.03525**	2.50740	**0.04355**
	(!D * RESET_B * !Q)	0.01860	**0.01070**	0.32940	**0.01075**	2.50740	**0.01897**
	(!D * !RESET_B * !Q)	0.01860	**0.01069**	0.32940	**0.01074**	2.50740	**0.01897**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.02153**	0.32940	**0.02153**	2.50740	**0.02997**
	(D * RESET_B * !Q)	0.01860	**0.02070**	0.32940	**0.02067**	2.50740	**0.02913**
	(D * !RESET_B * !Q)	0.01860	**0.01074**	0.32940	**0.01079**	2.50740	**0.01901**
	(!D * RESET_B * Q)	0.01860	**0.03861**	0.32940	**0.03872**	2.50740	**0.04697**
	(!D * RESET_B * !Q)	0.01860	**0.01073**	0.32940	**0.01078**	2.50740	**0.01900**
	(!D * !RESET_B * !Q)	0.01860	**0.01073**	0.32940	**0.01077**	2.50740	**0.01900**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00152**	0.32940	**0.00160**	2.50740	**0.00467**
sg13g2_dfrbpq_2	0.01860	**0.00153**	0.32940	**0.00160**	2.50740	**0.00467**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00115**	0.32940	**0.00126**	2.50740	**0.00447**
sg13g2_dfrbpq_2	0.01860	**0.00116**	0.32940	**0.00127**	2.50740	**0.00448**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00152**	0.32940	**0.00160**	2.50740	**0.00467**
	(!CLK * RESET_B)	0.01860	**0.01180**	0.32940	**0.01183**	2.50740	**0.01492**
	(!CLK * !RESET_B)	0.01860	**-0.00003**	0.32940	**-0.00003**	2.50740	**-0.00002**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00153**	0.32940	**0.00160**	2.50740	**0.00467**
	(!CLK * RESET_B)	0.01860	**0.01178**	0.32940	**0.01181**	2.50740	**0.01490**
	(!CLK * !RESET_B)	0.01860	**-0.00003**	0.32940	**-0.00002**	2.50740	**-0.00002**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00115**	0.32940	**0.00126**	2.50740	**0.00447**
	(!CLK * RESET_B)	0.01860	**0.00878**	0.32940	**0.00878**	2.50740	**0.01222**
	(!CLK * !RESET_B)	0.01860	**0.00025**	0.32940	**0.00026**	2.50740	**0.00026**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00116**	0.32940	**0.00127**	2.50740	**0.00448**
	(!CLK * RESET_B)	0.01860	**0.00880**	0.32940	**0.00880**	2.50740	**0.01224**
	(!CLK * !RESET_B)	0.01860	**0.00025**	0.32940	**0.00026**	2.50740	**0.00026**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00372**	0.32940	**0.00364**	2.50740	**0.00599**
sg13g2_dfrbpq_2	0.01860	**0.00375**	0.32940	**0.00367**	2.50740	**0.00601**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00909**	0.32940	**0.00857**	2.50740	**0.01254**
sg13g2_dfrbpq_2	0.01860	**0.00906**	0.32940	**0.00855**	2.50740	**0.01253**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**(CLK * D * !Q)**	0.01860	**0.00372**	0.32940	**0.00364**	2.50740	**0.00599**
	(CLK * !D * !Q)	0.01860	**0.00117**	0.32940	**0.00117**	2.50740	**0.00116**
	(!CLK * D * !Q)	0.01860	**0.01413**	0.32940	**0.01392**	2.50740	**0.01726**
	(!CLK * !D * !Q)	0.01860	**0.00128**	0.32940	**0.00127**	2.50740	**0.00127**
sg13g2_dfrbpq_2	**(CLK * D * !Q)**	0.01860	**0.00375**	0.32940	**0.00367**	2.50740	**0.00601**
	(CLK * !D * !Q)	0.01860	**0.00120**	0.32940	**0.00120**	2.50740	**0.00120**
	(!CLK * D * !Q)	0.01860	**0.01414**	0.32940	**0.01393**	2.50740	**0.01727**
	(!CLK * !D * !Q)	0.01860	**0.00130**	0.32940	**0.00130**	2.50740	**0.00130**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(CLK * D * !Q)	0.01860	**0.02560**	0.32940	**0.02508**	2.50740	**0.03329**
	(CLK * !D * !Q)	0.01860	**-0.00072**	0.32940	**-0.00090**	2.50740	**-0.00097**
	(!CLK * D * !Q)	0.01860	**0.00909**	0.32940	**0.00857**	2.50740	**0.01254**
	(!CLK * !D * !Q)	0.01860	**-0.00086**	0.32940	**-0.00098**	2.50740	**-0.00102**
sg13g2_dfrbpq_2	(CLK * D * !Q)	0.01860	**0.02859**	0.32940	**0.02807**	2.50740	**0.03627**
	(CLK * !D * !Q)	0.01860	**-0.00075**	0.32940	**-0.00093**	2.50740	**-0.00100**
	(!CLK * D * !Q)	0.01860	**0.00906**	0.32940	**0.00855**	2.50740	**0.01253**
	(!CLK * !D * !Q)	0.01860	**-0.00090**	0.32940	**-0.00102**	2.50740	**-0.00106**

DFRBPx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_1	52.61760
sg13g2_dfrbp_2	54.43200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CLK	D	RESET_B	Q	Q_N
sg13g2_dfrbp_1	0.00280	0.00155	0.00513	0.30000	0.30000
sg13g2_dfrbp_2	0.00281	0.00155	0.00518	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_1	486.74700	567.01000	652.11500
sg13g2_dfrbp_2	606.91000	686.11000	769.07900

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.18986**	0.32940	0.06480	**0.46523**	2.50740	0.30000	**1.35755**
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.24357**	0.32940	0.12960	**0.51316**	2.50740	0.60000	**1.41421**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.17233**	0.32940	0.06480	**0.41537**	2.50740	0.30000	**1.14342**
	RESET_B->Q (FF)	0.01860	0.00100	**0.24210**	0.32940	0.06480	**0.52184**	2.50740	0.30000	**1.42059**
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.20958**	0.32940	0.12960	**0.45376**	2.50740	0.60000	**1.18717**
	RESET_B->Q (FF)	0.01860	0.00100	**0.27970**	0.32940	0.12960	**0.56030**	2.50740	0.60000	**1.46468**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.13442**	0.32940	0.06480	**0.43524**	2.50740	0.30000	**1.29570**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.20464**	0.32940	0.06480	**0.53955**	2.50740	0.30000	**1.57182**
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.13914**	0.32940	0.12960	**0.45018**	2.50740	0.60000	**1.31325**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.21075**	0.32940	0.12960	**0.55503**	2.50740	0.60000	**1.58929**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.14607**	0.32940	0.06480	**0.44110**	2.50740	0.30000	**1.21058**
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.15810**	0.32940	0.12960	**0.46786**	2.50740	0.60000	**1.24008**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.11185**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.13748**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.13107**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.13107**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.05624**	1.26300	1.26300	**-0.19968**	2.50740	2.50740	**-0.25678**
	setup	**CLK (R)**	0.01860	0.01860	**0.11248**	1.26300	1.26300	**0.24825**	2.50740	2.50740	**0.30696**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.05624**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.25383**
	setup	**CLK (R)**	0.01860	0.01860	**0.11003**	1.26300	1.26300	**0.24825**	2.50740	2.50740	**0.30696**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03179**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.24203**
	setup	**CLK (R)**	0.01860	0.01860	**0.11492**	1.26300	1.26300	**0.24555**	2.50740	2.50740	**0.33648**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03179**	1.26300	1.26300	**-0.15920**	2.50740	2.50740	**-0.23908**
	setup	**CLK (R)**	0.01860	0.01860	**0.11492**	1.26300	1.26300	**0.24555**	2.50740	2.50740	**0.33943**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.26984**	2.50740	2.50740	**0.37484**
	removal	**CLK (R)**	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.25904**	2.50740	2.50740	**-0.36304**
sg13g2_dfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.11737**	1.26300	1.26300	**0.27254**	2.50740	2.50740	**0.37484**
	removal	**CLK (R)**	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.26174**	2.50740	2.50740	**-0.36599**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.11185**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.11505**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	CLK	0.01860	0.00100	**0.03007**	0.32940	0.06480	**0.07657**	2.50740	0.30000	**0.25400**
sg13g2_dfrbp_2	CLK	0.01860	0.00100	**0.03722**	0.32940	0.12960	**0.13090**	2.50740	0.60000	**0.47806**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	CLK	0.01860	0.00100	**0.03079**	0.32940	0.06480	**0.07740**	2.50740	0.30000	**0.25534**
	RESET_B	0.01860	0.00100	**0.02143**	0.32940	0.06480	**0.06786**	2.50740	0.30000	**0.24101**
sg13g2_dfrbp_2	CLK	0.01860	0.00100	**0.03768**	0.32940	0.12960	**0.13162**	2.50740	0.60000	**0.47892**
	RESET_B	0.01860	0.00100	**0.02841**	0.32940	0.12960	**0.12219**	2.50740	0.60000	**0.46443**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	CLK	0.01860	0.00100	**0.03082**	0.32940	0.06480	**0.07767**	2.50740	0.30000	**0.25555**
	RESET_B	0.01860	0.00100	**0.02142**	0.32940	0.06480	**0.06825**	2.50740	0.30000	**0.24144**
sg13g2_dfrbp_2	CLK	0.01860	0.00100	**0.03773**	0.32940	0.12960	**0.13211**	2.50740	0.60000	**0.47946**
	RESET_B	0.01860	0.00100	**0.02845**	0.32940	0.12960	**0.12278**	2.50740	0.60000	**0.46528**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	CLK	0.01860	0.00100	**0.03009**	0.32940	0.06480	**0.07630**	2.50740	0.30000	**0.25395**
sg13g2_dfrbp_2	CLK	0.01860	0.00100	**0.03723**	0.32940	0.12960	**0.13027**	2.50740	0.60000	**0.47698**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.01107**	0.32940	**0.01093**	2.50740	**0.01898**
sg13g2_dfrbp_2	0.01860	**0.01113**	0.32940	**0.01098**	2.50740	**0.01903**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.02068**	0.32940	**0.02066**	2.50740	**0.02913**
sg13g2_dfrbp_2	0.01860	**0.02069**	0.32940	**0.02066**	2.50740	**0.02912**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.01107**	0.32940	**0.01093**	2.50740	**0.01898**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01159**	0.32940	**0.01148**	2.50740	**0.01949**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01082**	0.32940	**0.01070**	2.50740	**0.01873**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01160**	0.32940	**0.01150**	2.50740	**0.01951**
sg13g2_dfrbp_2	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.01113**	0.32940	**0.01098**	2.50740	**0.01903**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01167**	0.32940	**0.01154**	2.50740	**0.01954**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01088**	0.32940	**0.01076**	2.50740	**0.01878**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01167**	0.32940	**0.01156**	2.50740	**0.01956**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.02072**	0.32940	**0.02071**	2.50740	**0.02916**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02068**	0.32940	**0.02066**	2.50740	**0.02913**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01073**	0.32940	**0.01076**	2.50740	**0.01898**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.04042**	0.32940	**0.03901**	2.50740	**0.04722**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01071**	0.32940	**0.01075**	2.50740	**0.01897**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01072**	0.32940	**0.01074**	2.50740	**0.01896**
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.02078**	0.32940	**0.02075**	2.50740	**0.02919**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02069**	0.32940	**0.02066**	2.50740	**0.02912**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01077**	0.32940	**0.01079**	2.50740	**0.01902**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.04930**	0.32940	**0.04599**	2.50740	**0.05422**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01075**	0.32940	**0.01078**	2.50740	**0.01901**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01076**	0.32940	**0.01077**	2.50740	**0.01900**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00152**	0.32940	**0.00160**	2.50740	**0.00467**
sg13g2_dfrbp_2	0.01860	**0.00152**	0.32940	**0.00160**	2.50740	**0.00467**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00115**	0.32940	**0.00126**	2.50740	**0.00447**
sg13g2_dfrbp_2	0.01860	**0.00116**	0.32940	**0.00127**	2.50740	**0.00448**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00152**	0.32940	**0.00160**	2.50740	**0.00467**
	(!CLK * RESET_B)	0.01860	**0.01180**	0.32940	**0.01183**	2.50740	**0.01492**
	(!CLK * !RESET_B)	0.01860	**-0.00003**	0.32940	**-0.00003**	2.50740	**-0.00002**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00152**	0.32940	**0.00160**	2.50740	**0.00467**
	(!CLK * RESET_B)	0.01860	**0.01178**	0.32940	**0.01181**	2.50740	**0.01490**
	(!CLK * !RESET_B)	0.01860	**-0.00003**	0.32940	**-0.00003**	2.50740	**-0.00002**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00115**	0.32940	**0.00126**	2.50740	**0.00447**
	(!CLK * RESET_B)	0.01860	**0.00878**	0.32940	**0.00878**	2.50740	**0.01222**
	(!CLK * !RESET_B)	0.01860	**0.00025**	0.32940	**0.00026**	2.50740	**0.00026**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00116**	0.32940	**0.00127**	2.50740	**0.00448**
	(!CLK * RESET_B)	0.01860	**0.00880**	0.32940	**0.00880**	2.50740	**0.01226**
	(!CLK * !RESET_B)	0.01860	**0.00025**	0.32940	**0.00026**	2.50740	**0.00026**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00371**	0.32940	**0.00364**	2.50740	**0.00599**
sg13g2_dfrbp_2	0.01860	**0.00376**	0.32940	**0.00368**	2.50740	**0.00602**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00909**	0.32940	**0.00856**	2.50740	**0.01254**
sg13g2_dfrbp_2	0.01860	**0.00907**	0.32940	**0.00855**	2.50740	**0.01253**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00371**	0.32940	**0.00364**	2.50740	**0.00599**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00117**	0.32940	**0.00117**	2.50740	**0.00117**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01413**	0.32940	**0.01392**	2.50740	**0.01726**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00127**	0.32940	**0.00127**	2.50740	**0.00127**
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00376**	0.32940	**0.00368**	2.50740	**0.00602**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00120**	0.32940	**0.00121**	2.50740	**0.00120**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01415**	0.32940	**0.01394**	2.50740	**0.01727**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00131**	0.32940	**0.00131**	2.50740	**0.00131**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.02994**	0.32940	**0.02943**	2.50740	**0.03772**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00072**	0.32940	**-0.00090**	2.50740	**-0.00097**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00909**	0.32940	**0.00856**	2.50740	**0.01254**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00086**	0.32940	**-0.00098**	2.50740	**-0.00102**
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.03701**	0.32940	**0.03649**	2.50740	**0.04486**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00076**	0.32940	**-0.00094**	2.50740	**-0.00100**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00907**	0.32940	**0.00855**	2.50740	**0.01253**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00090**	0.32940	**-0.00102**	2.50740	**-0.00106**

DLHQ

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00228	0.00228	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	339.70200	368.53700	417.21100

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.17648**	0.32940	0.06480	**0.44433**	2.50740	0.30000	**1.28627**
	GATE->Q (RR)	0.01860	0.00100	**0.15050**	0.32940	0.06480	**0.42015**	2.50740	0.30000	**1.24842**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.15621**	0.32940	0.06480	**0.38782**	2.50740	0.30000	**1.06173**
	GATE->Q (RF)	0.01860	0.00100	**0.16055**	0.32940	0.06480	**0.39563**	2.50740	0.30000	**1.06532**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.22666**	2.50740	2.50740	**-0.27744**
	setup	GATE (F)	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.25634**	2.50740	2.50740	**0.32467**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.03668**	1.26300	1.26300	**-0.00810**	2.50740	2.50740	**0.02066**
	setup	GATE (F)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.01619**	2.50740	2.50740	**-0.01181**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.07980**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01444**	0.32940	0.06480	**0.01473**	2.50740	0.30000	**0.01463**
	GATE	0.01860	0.00100	**0.01231**	0.32940	0.06480	**0.01250**	2.50740	0.30000	**0.01278**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01524**	0.32940	0.06480	**0.01558**	2.50740	0.30000	**0.01541**
	GATE	0.01860	0.00100	**0.01345**	0.32940	0.06480	**0.01411**	2.50740	0.30000	**0.01428**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00373**	0.32940	**0.00377**	2.50740	**0.00934**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00375**	0.32940	**0.00390**	2.50740	**0.00971**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00373**	0.32940	**0.00377**	2.50740	**0.00934**
	(!GATE * !Q)	0.01860	**0.00368**	0.32940	**0.00376**	2.50740	**0.00937**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00367**	0.32940	**0.00389**	2.50740	**0.00974**
	(!GATE * !Q)	0.01860	**0.00375**	0.32940	**0.00390**	2.50740	**0.00971**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00833**	0.32940	**0.00830**	2.50740	**0.01525**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.01480**	0.32940	**0.01522**	2.50740	**0.02249**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.00833**	0.32940	**0.00830**	2.50740	**0.01525**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.01480**	0.32940	**0.01522**	2.50740	**0.02249**

DLHRQ

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhrq_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	GATE	RESET_B	Q
sg13g2_dlhrq_1	0.00213	0.00219	0.00295	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	350.18500	397.18900	438.99100

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.18717**	0.32940	0.06480	**0.45977**	2.50740	0.30000	**1.29827**
	GATE->Q (RR)	0.01860	0.00100	**0.16842**	0.32940	0.06480	**0.44453**	2.50740	0.30000	**1.27266**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.16499**	0.32940	0.06480	**0.39908**	2.50740	0.30000	**1.07948**
	GATE->Q (RF)	0.01860	0.00100	**0.17142**	0.32940	0.06480	**0.41168**	2.50740	0.30000	**1.09330**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06543**	0.32940	0.06480	**0.32080**	2.50740	0.30000	**1.07562**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.08558**	1.26300	1.26300	**-0.20238**	2.50740	2.50740	**-0.24498**
	setup	GATE (F)	0.01860	0.01860	**0.09781**	1.26300	1.26300	**0.24015**	2.50740	2.50740	**0.30401**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**0.02361**
	setup	GATE (F)	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.01349**	2.50740	2.50740	**-0.01476**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.07980**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.01467**	1.26300	1.26300	**-0.10794**	2.50740	2.50740	**-0.15053**
	removal	GATE (F)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.12682**	2.50740	2.50740	**0.16824**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.17914**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00030**	0.32940	0.06480	**0.00061**	2.50740	0.30000	**0.00056**
	GATE	0.01860	0.00100	**0.00925**	0.32940	0.06480	**0.00957**	2.50740	0.30000	**0.00941**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**-0.00030**	0.32940	0.06480	**-0.00061**	2.50740	0.30000	**-0.00056**
	GATE	0.01860	0.00100	**0.00918**	0.32940	0.06480	**0.01000**	2.50740	0.30000	**0.00981**
	RESET_B	0.01860	0.00100	**0.00752**	0.32940	0.06480	**0.00804**	2.50740	0.30000	**0.01481**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01797**	0.32940	**0.01799**	2.50740	**0.02353**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.02181**	0.32940	**0.02480**	2.50740	**0.03066**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00349**	0.32940	**0.00355**	2.50740	**0.00915**
	!RESET_B	0.01860	**0.01797**	0.32940	**0.01799**	2.50740	**0.02353**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00387**	0.32940	**0.00409**	2.50740	**0.00982**
	!RESET_B	0.01860	**0.02181**	0.32940	**0.02480**	2.50740	**0.03066**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01199**	0.32940	**0.01178**	2.50740	**0.01914**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01503**	0.32940	**0.01549**	2.50740	**0.02278**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.01199**	0.32940	**0.01178**	2.50740	**0.01914**
	(!D * !RESET_B * !Q)	0.01860	**0.00873**	0.32940	**0.00873**	2.50740	**0.01561**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.01212**	0.32940	**0.01212**	2.50740	**0.01981**
	(!D * RESET_B * !Q)	0.01860	**0.01503**	0.32940	**0.01549**	2.50740	**0.02278**
	(!D * !RESET_B * !Q)	0.01860	**0.01514**	0.32940	**0.01559**	2.50740	**0.02285**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.00005**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	**(D * !GATE * !Q)**	0.01860	**0.00011**	0.32940	**0.00011**	2.50740	**0.00010**
	(!D * !GATE * !Q)	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	**(D * !GATE * !Q)**	0.01860	**0.00018**	0.32940	**0.00007**	2.50740	**0.00003**
	(!D * !GATE * !Q)	0.01860	**0.00005**	0.32940	**0.00000**	2.50740	**0.00000**

DLHR

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GATE	RESET_B	Q	Q_N
sg13g2_dlhr_1	0.00208	0.00224	0.00311	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	461.80400	508.57600	562.27400

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.20228**	0.32940	0.06480	**0.48207**	2.50740	0.30000	**1.31919**
	GATE->Q (RR)	0.01860	0.00100	**0.18428**	0.32940	0.06480	**0.46834**	2.50740	0.30000	**1.29786**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.17116**	0.32940	0.06480	**0.40867**	2.50740	0.30000	**1.08334**
	GATE->Q (RF)	0.01860	0.00100	**0.17784**	0.32940	0.06480	**0.42235**	2.50740	0.30000	**1.09929**
	RESET_B->Q (FF)	0.01860	0.00100	**0.07131**	0.32940	0.06480	**0.33937**	2.50740	0.30000	**1.11856**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.20944**	0.32940	0.06480	**0.46816**	2.50740	0.30000	**1.27473**
	GATE->Q_N (RR)	0.01860	0.00100	**0.21631**	0.32940	0.06480	**0.48188**	2.50740	0.30000	**1.29100**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10937**	0.32940	0.06480	**0.39326**	2.50740	0.30000	**1.25488**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.24631**	0.32940	0.06480	**0.47386**	2.50740	0.30000	**1.17836**
	GATE->Q_N (RF)	0.01860	0.00100	**0.22808**	0.32940	0.06480	**0.46020**	2.50740	0.30000	**1.15690**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.20777**	2.50740	2.50740	**-0.25088**
	setup	GATE (F)	0.01860	0.01860	**0.10759**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.30991**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**0.02656**
	setup	GATE (F)	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.01349**	2.50740	2.50740	**-0.01476**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.08942**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**-0.00734**	1.26300	1.26300	**-0.06206**	2.50740	2.50740	**-0.08264**
	removal	GATE (F)	0.01860	0.01860	**0.02201**	1.26300	1.26300	**0.08635**	2.50740	2.50740	**0.10921**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.18555**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00420**	0.32940	0.06480	**0.00464**	2.50740	0.30000	**0.00468**
	GATE	0.01860	0.00100	**0.00857**	0.32940	0.06480	**0.00898**	2.50740	0.30000	**0.00900**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00199**	0.32940	0.06480	**0.00079**	2.50740	0.30000	**0.00062**
	GATE	0.01860	0.00100	**0.00858**	0.32940	0.06480	**0.00906**	2.50740	0.30000	**0.00893**
	RESET_B	0.01860	0.00100	**0.00760**	0.32940	0.06480	**0.00786**	2.50740	0.30000	**0.01145**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00201**	0.32940	0.06480	**0.00098**	2.50740	0.30000	**0.00084**
	GATE	0.01860	0.00100	**0.01441**	0.32940	0.06480	**0.01498**	2.50740	0.30000	**0.01855**
	RESET_B	0.01860	0.00100	**0.00759**	0.32940	0.06480	**0.00800**	2.50740	0.30000	**0.01163**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00419**	0.32940	0.06480	**0.00451**	2.50740	0.30000	**0.00453**
	GATE	0.01860	0.00100	**0.00857**	0.32940	0.06480	**0.00883**	2.50740	0.30000	**0.00878**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01759**	0.32940	**0.01762**	2.50740	**0.02317**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.02150**	0.32940	**0.02457**	2.50740	**0.03045**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	**(!GATE * RESET_B * Q)**	0.01860	**0.00356**	0.32940	**0.00363**	2.50740	**0.00927**
	!RESET_B	0.01860	**0.01759**	0.32940	**0.01762**	2.50740	**0.02317**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	**(!GATE * RESET_B * Q)**	0.01860	**0.00386**	0.32940	**0.00408**	2.50740	**0.00987**
	!RESET_B	0.01860	**0.02150**	0.32940	**0.02457**	2.50740	**0.03045**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01167**	0.32940	**0.01147**	2.50740	**0.01885**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01494**	0.32940	**0.01537**	2.50740	**0.02262**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01167**	0.32940	**0.01147**	2.50740	**0.01885**
	(!D * !RESET_B * !Q)	0.01860	**0.00842**	0.32940	**0.00841**	2.50740	**0.01532**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01238**	0.32940	**0.01240**	2.50740	**0.02012**
	(!D * RESET_B * !Q)	0.01860	**0.01494**	0.32940	**0.01537**	2.50740	**0.02262**
	(!D * !RESET_B * !Q)	0.01860	**0.01498**	0.32940	**0.01540**	2.50740	**0.02263**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**-0.00013**	0.32940	**-0.00005**	2.50740	**-0.00001**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.00015**	0.32940	**0.00005**	2.50740	**0.00001**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**-0.00001**	0.32940	**-0.00001**	2.50740	**-0.00002**
	(!D * !GATE * !Q)	0.01860	**-0.00013**	0.32940	**-0.00005**	2.50740	**-0.00001**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00027**	0.32940	**0.00017**	2.50740	**0.00014**
	(!D * !GATE * !Q)	0.01860	**0.00015**	0.32940	**0.00005**	2.50740	**0.00001**

DLLRQ

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	GATE_N	RESET_B	Q
sg13g2_dllrq_1	0.00204	0.00217	0.00298	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	350.11100	397.16800	438.99800

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.18607**	0.32940	0.06480	**0.45795**	2.50740	0.30000	**1.29545**
	GATE_N->Q (FR)	0.01860	0.00100	**0.20855**	0.32940	0.06480	**0.49098**	2.50740	0.30000	**1.34731**
	RESET_B->Q (RR)	0.01860	0.00100	**0.08623**	0.32940	0.06480	**0.36088**	2.50740	0.30000	**1.24905**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.16410**	0.32940	0.06480	**0.39632**	2.50740	0.30000	**1.07202**
	GATE_N->Q (FF)	0.01860	0.00100	**0.15751**	0.32940	0.06480	**0.40862**	2.50740	0.30000	**1.16407**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06591**	0.32940	0.06480	**0.32017**	2.50740	0.30000	**1.07220**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.08365**	2.50740	2.50740	**-0.10626**
	setup	GATE_N (R)	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.09444**	2.50740	2.50740	**0.12101**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08314**	1.26300	1.26300	**-0.21857**	2.50740	2.50740	**-0.27449**
	setup	GATE_N (R)	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.24825**	2.50740	2.50740	**0.32467**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.10864**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.03423**	1.26300	1.26300	**-0.10254**	2.50740	2.50740	**-0.10921**
	removal	GATE_N (R)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.11333**	2.50740	2.50740	**0.11806**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.17914**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00632**	0.32940	0.06480	**0.00672**	2.50740	0.30000	**0.00658**
	GATE_N	0.01860	0.00100	**0.00673**	0.32940	0.06480	**0.00680**	2.50740	0.30000	**0.00653**
	RESET_B	0.01860	0.00100	**0.00989**	0.32940	0.06480	**0.00984**	2.50740	0.30000	**0.01511**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00357**	0.32940	0.06480	**0.00027**	2.50740	0.30000	**0.00011**
	GATE_N	0.01860	0.00100	**0.00550**	0.32940	0.06480	**0.00544**	2.50740	0.30000	**0.00548**
	RESET_B	0.01860	0.00100	**0.00764**	0.32940	0.06480	**0.00820**	2.50740	0.30000	**0.01498**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01184**	0.32940	**0.01178**	2.50740	**0.01744**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01425**	0.32940	**0.01802**	2.50740	**0.02389**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00342**	0.32940	**0.00349**	2.50740	**0.00910**
	!RESET_B	0.01860	**0.01184**	0.32940	**0.01178**	2.50740	**0.01744**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00384**	0.32940	**0.00405**	2.50740	**0.00983**
	!RESET_B	0.01860	**0.01425**	0.32940	**0.01802**	2.50740	**0.02389**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01342**	0.32940	**0.01330**	2.50740	**0.01994**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01510**	0.32940	**0.01552**	2.50740	**0.02300**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.01342**	0.32940	**0.01330**	2.50740	**0.01994**
	(!D * !RESET_B * !Q)	0.01860	**0.00790**	0.32940	**0.00788**	2.50740	**0.01478**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.01267**	0.32940	**0.01273**	2.50740	**0.01988**
	(!D * RESET_B * !Q)	0.01860	**0.01510**	0.32940	**0.01552**	2.50740	**0.02300**
	(!D * !RESET_B * !Q)	0.01860	**0.01516**	0.32940	**0.01558**	2.50740	**0.02292**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00008**	0.32940	**0.00008**	2.50740	**0.00007**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00006**	0.32940	**-0.00004**	2.50740	**-0.00007**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	**(D * GATE_N * !Q)**	0.01860	**0.00020**	0.32940	**0.00020**	2.50740	**0.00020**
	(!D * GATE_N * !Q)	0.01860	**0.00008**	0.32940	**0.00008**	2.50740	**0.00007**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	**(D * GATE_N * !Q)**	0.01860	**0.00019**	0.32940	**0.00008**	2.50740	**0.00005**
	(!D * GATE_N * !Q)	0.01860	**0.00006**	0.32940	**-0.00004**	2.50740	**-0.00007**

DLLR

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GATE_N	RESET_B	Q	Q_N
sg13g2_dllr_1	0.00215	0.00230	0.00307	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	461.77200	518.32600	562.18200

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.20391**	0.32940	0.06480	**0.48308**	2.50740	0.30000	**1.31946**
	GATE_N->Q (FR)	0.01860	0.00100	**0.22633**	0.32940	0.06480	**0.51690**	2.50740	0.30000	**1.37343**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.17305**	0.32940	0.06480	**0.41005**	2.50740	0.30000	**1.08415**
	GATE_N->Q (FF)	0.01860	0.00100	**0.16743**	0.32940	0.06480	**0.42465**	2.50740	0.30000	**1.18287**
	RESET_B->Q (FF)	0.01860	0.00100	**0.07126**	0.32940	0.06480	**0.34475**	2.50740	0.30000	**1.11003**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.21116**	0.32940	0.06480	**0.46935**	2.50740	0.30000	**1.27482**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.20565**	0.32940	0.06480	**0.48399**	2.50740	0.30000	**1.37231**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.11011**	0.32940	0.06480	**0.39480**	2.50740	0.30000	**1.26301**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.24765**	0.32940	0.06480	**0.47513**	2.50740	0.30000	**1.17886**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.26977**	0.32940	0.06480	**0.50894**	2.50740	0.30000	**1.23357**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.07580**	1.26300	1.26300	**-0.08905**	2.50740	2.50740	**-0.11216**
	setup	GATE_N (R)	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.09984**	2.50740	2.50740	**0.12692**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08558**	1.26300	1.26300	**-0.22127**	2.50740	2.50740	**-0.27744**
	setup	GATE_N (R)	0.01860	0.01860	**0.09781**	1.26300	1.26300	**0.25365**	2.50740	2.50740	**0.32762**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.11826**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**-0.06476**	2.50740	2.50740	**-0.04722**
	removal	GATE_N (R)	0.01860	0.01860	**0.04157**	1.26300	1.26300	**0.07825**	2.50740	2.50740	**0.06198**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.18555**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00895**	0.32940	0.06480	**0.05571**	2.50740	0.30000	**0.22499**
	GATE_N	0.01860	0.00100	**0.01786**	0.32940	0.06480	**0.06476**	2.50740	0.30000	**0.23412**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00635**	0.32940	0.06480	**0.04590**	2.50740	0.30000	**0.21483**
	GATE_N	0.01860	0.00100	**0.01624**	0.32940	0.06480	**0.06261**	2.50740	0.30000	**0.23194**
	RESET_B	0.01860	0.00100	**0.02368**	0.32940	0.06480	**0.06964**	2.50740	0.30000	**0.24478**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00638**	0.32940	0.06480	**0.04632**	2.50740	0.30000	**0.21523**
	GATE_N	0.01860	0.00100	**0.02911**	0.32940	0.06480	**0.07598**	2.50740	0.30000	**0.25260**
	RESET_B	0.01860	0.00100	**0.02353**	0.32940	0.06480	**0.06978**	2.50740	0.30000	**0.24503**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00893**	0.32940	0.06480	**0.05539**	2.50740	0.30000	**0.22480**
	GATE_N	0.01860	0.00100	**0.01785**	0.32940	0.06480	**0.06448**	2.50740	0.30000	**0.23338**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01820**	0.32940	**0.01830**	2.50740	**0.02385**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01975**	0.32940	**0.02677**	2.50740	**0.03267**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	**(GATE_N * RESET_B * Q)**	0.01860	**0.00362**	0.32940	**0.00369**	2.50740	**0.00933**
	!RESET_B	0.01860	**0.01820**	0.32940	**0.01830**	2.50740	**0.02385**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	**(GATE_N * RESET_B * Q)**	0.01860	**0.00338**	0.32940	**0.00360**	2.50740	**0.00950**
	!RESET_B	0.01860	**0.01975**	0.32940	**0.02677**	2.50740	**0.03267**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01385**	0.32940	**0.01567**	2.50740	**0.02261**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01287**	0.32940	**0.01295**	2.50740	**0.02020**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01348**	0.32940	**0.01338**	2.50740	**0.02002**
	(!D * RESET_B * !Q)	0.01860	**0.01385**	0.32940	**0.01567**	2.50740	**0.02261**
	(!D * !RESET_B * !Q)	0.01860	**0.01390**	0.32940	**0.01572**	2.50740	**0.02264**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01287**	0.32940	**0.01295**	2.50740	**0.02020**
	(!D * !RESET_B * !Q)	0.01860	**0.00858**	0.32940	**0.00869**	2.50740	**0.01604**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**-0.00016**	0.32940	**-0.00008**	2.50740	**-0.00004**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.00018**	0.32940	**0.00008**	2.50740	**0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00027**	0.32940	**0.00026**	2.50740	**0.00026**
	(!D * GATE_N * !Q)	0.01860	**-0.00016**	0.32940	**-0.00008**	2.50740	**-0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00030**	0.32940	**0.00020**	2.50740	**0.00017**
	(!D * GATE_N * !Q)	0.01860	**0.00018**	0.32940	**0.00008**	2.50740	**0.00004**

DLYGATE4SD1

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00149	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	176.82000	186.79900	196.77800

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.11507**	0.32940	0.06480	**0.38342**	2.50740	0.30000	**1.17921**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.13504**	0.32940	0.06480	**0.39134**	2.50740	0.30000	**1.17984**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01256**	0.32940	0.06480	**0.01269**	2.50740	0.30000	**0.01597**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01199**	0.32940	0.06480	**0.01227**	2.50740	0.30000	**0.01572**

DLYGATE4SD2

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00148	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	178.59500	188.57300	198.55000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.16703**	0.32940	0.06480	**0.44640**	2.50740	0.30000	**1.28743**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.18947**	0.32940	0.06480	**0.46680**	2.50740	0.30000	**1.29914**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01481**	0.32940	0.06480	**0.01489**	2.50740	0.30000	**0.01785**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01431**	0.32940	0.06480	**0.01453**	2.50740	0.30000	**0.01778**

DLYGATE4SD3

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00150	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	389.89700	399.85800	409.81900

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.34505**	0.32940	0.06480	**0.65679**	2.50740	0.30000	**1.59155**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.35893**	0.32940	0.06480	**0.67703**	2.50740	0.30000	**1.61288**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02105**	0.32940	0.06480	**0.02100**	2.50740	0.30000	**0.02356**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02069**	0.32940	0.06480	**0.02072**	2.50740	0.30000	**0.02346**

EBUFNx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_ebufn_2	18.14400
sg13g2_ebufn_4	27.21600
sg13g2_ebufn_8	45.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_2	0.00262	0.00638	0.60000
sg13g2_ebufn_4	0.00296	0.01045	1.20000
sg13g2_ebufn_8	0.00577	0.01756	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_2	138.42700	236.41400	331.24000
sg13g2_ebufn_4	180.47700	376.42900	598.54500
sg13g2_ebufn_8	278.54400	689.88800	1153.55000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00550	**0.06310**	0.32940	0.13410	**0.53724**	2.50740	0.60450	**2.11741**
	TE_B->Z (RR)	0.01860	0.00550	**0.04607**	0.32940	0.13410	**0.10970**	2.50740	0.60450	**0.23688**
	TE_B->Z (FR)	0.01860	0.00550	**0.03552**	0.32940	0.13410	**0.52551**	2.50740	0.60450	**2.67268**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.00984	**0.07424**	0.32940	0.26804	**0.57513**	2.50740	1.20884	**2.22001**
	TE_B->Z (RR)	0.01860	0.00984	**0.05310**	0.32940	0.26804	**0.13167**	2.50740	1.20884	**0.28796**
	TE_B->Z (FR)	0.01860	0.00984	**0.03547**	0.32940	0.26804	**0.52953**	2.50740	1.20884	**2.68729**
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.01855	**0.07227**	0.32940	0.53595	**0.57484**	2.50740	2.41755	**2.21962**
	TE_B->Z (RR)	0.01860	0.01855	**0.06657**	0.32940	0.53595	**0.17071**	2.50740	2.41755	**0.40164**
	TE_B->Z (FR)	0.01860	0.01855	**0.03559**	0.32940	0.53595	**0.53127**	2.50740	2.41755	**2.69216**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00840	**0.06624**	0.32940	0.13700	**0.43943**	2.50740	0.60740	**1.61152**
	TE_B->Z (RF)	0.01860	0.00840	**0.02757**	0.32940	0.13700	**0.03192**	2.50740	0.60740	**0.09563**
	TE_B->Z (FF)	0.01860	0.00840	**0.06395**	0.32940	0.13700	**0.59080**	2.50740	0.60740	**2.36703**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01550	**0.08576**	0.32940	0.27370	**0.48641**	2.50740	1.21450	**1.73276**
	TE_B->Z (RF)	0.01860	0.01550	**0.02878**	0.32940	0.27370	**0.03266**	2.50740	1.21450	**0.09743**
	TE_B->Z (FF)	0.01860	0.01550	**0.07619**	0.32940	0.27370	**0.62990**	2.50740	1.21450	**2.46167**
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02955	**0.08349**	0.32940	0.54695	**0.48417**	2.50740	2.42855	**1.73206**
	TE_B->Z (RF)	0.01860	0.02955	**0.02988**	0.32940	0.54695	**0.03524**	2.50740	2.42855	**0.10263**
	TE_B->Z (FF)	0.01860	0.02955	**0.09984**	0.32940	0.54695	**0.68747**	2.50740	2.42855	**2.61659**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00550	**0.00931**	0.32940	0.13410	**0.01008**	2.50740	0.60450	**0.00854**
	TE_B	0.01860	0.00550	**0.00154**	0.32940	0.13410	**0.00126**	2.50740	0.60450	**0.00088**
sg13g2_ebufn_4	A	0.01860	0.00984	**0.01780**	0.32940	0.26804	**0.02002**	2.50740	1.20884	**0.01780**
	TE_B	0.01860	0.00984	**0.00295**	0.32940	0.26804	**0.00235**	2.50740	1.20884	**0.00155**
sg13g2_ebufn_8	A	0.01860	0.01855	**0.03562**	0.32940	0.53595	**0.04166**	2.50740	2.41755	**0.03895**
	TE_B	0.01860	0.01855	**0.00579**	0.32940	0.53595	**0.00471**	2.50740	2.41755	**0.00327**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00840	**0.00813**	0.32940	0.13700	**0.00902**	2.50740	0.60740	**0.00817**
	TE_B	0.01860	0.00840	**0.00203**	0.32940	0.13700	**0.03058**	2.50740	0.60740	**0.13951**
sg13g2_ebufn_4	A	0.01860	0.01550	**0.01593**	0.32940	0.27370	**0.01791**	2.50740	1.21450	**0.01589**
	TE_B	0.01860	0.01550	**0.00375**	0.32940	0.27370	**0.06064**	2.50740	1.21450	**0.27555**
sg13g2_ebufn_8	A	0.01860	0.02955	**0.03181**	0.32940	0.54695	**0.03560**	2.50740	2.42855	**0.03227**
	TE_B	0.01860	0.02955	**0.00706**	0.32940	0.54695	**0.12093**	2.50740	2.42855	**0.54915**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00363**	0.32940	**0.00384**	2.50740	**0.01082**
sg13g2_ebufn_4	0.01860	**0.00601**	0.32940	**0.00610**	2.50740	**0.01378**
sg13g2_ebufn_8	0.01860	**0.01122**	0.32940	**0.01153**	2.50740	**0.02703**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00305**	0.32940	**0.00342**	2.50740	**0.01057**
sg13g2_ebufn_4	0.01860	**0.00482**	0.32940	**0.00514**	2.50740	**0.01299**
sg13g2_ebufn_8	0.01860	**0.00905**	0.32940	**0.00973**	2.50740	**0.02568**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00040**	0.32940	**0.00018**	2.50740	**0.00691**
sg13g2_ebufn_4	0.01860	**-0.00046**	0.32940	**-0.00108**	2.50740	**0.00608**
sg13g2_ebufn_8	0.01860	**-0.00304**	0.32940	**-0.00424**	2.50740	**0.00179**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.01382**	0.32940	**0.01422**	2.50740	**0.02124**
sg13g2_ebufn_4	0.01860	**0.02670**	0.32940	**0.02700**	2.50740	**0.03469**
sg13g2_ebufn_8	0.01860	**0.05163**	0.32940	**0.05162**	2.50740	**0.05867**

EINVNx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_2	16.32960
sg13g2_einvn_4	23.58720
sg13g2_einvn_8	39.91680

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_2	0.00408	0.00486	0.60000
sg13g2_einvn_4	0.00796	0.00906	1.20000
sg13g2_einvn_8	0.01575	0.01555	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_2	201.55400	240.42300	279.29300
sg13g2_einvn_4	399.52500	477.26800	555.01000
sg13g2_einvn_8	755.51500	910.99700	1066.48000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00556	**0.02760**	0.32940	0.13416	**0.54769**	2.50740	0.60456	**2.89972**
	TE_B->Z (RR)	0.01860	0.00556	**0.05031**	0.32940	0.13416	**0.12670**	2.50740	0.60456	**0.27911**
	TE_B->Z (FR)	0.01860	0.00556	**0.03353**	0.32940	0.13416	**0.52518**	2.50740	0.60456	**2.67774**
sg13g2_einvn_4	A->Z (FR)	0.01860	0.01002	**0.02568**	0.32940	0.26822	**0.54810**	2.50740	1.20902	**2.90223**
	TE_B->Z (RR)	0.01860	0.01002	**0.05136**	0.32940	0.26822	**0.13048**	2.50740	1.20902	**0.28619**
	TE_B->Z (FR)	0.01860	0.01002	**0.03222**	0.32940	0.26822	**0.52534**	2.50740	1.20902	**2.67768**
sg13g2_einvn_8	A->Z (FR)	0.01860	0.01899	**0.02480**	0.32940	0.53639	**0.54972**	2.50740	2.41799	**2.90950**
	TE_B->Z (RR)	0.01860	0.01899	**0.06441**	0.32940	0.53639	**0.16950**	2.50740	2.41799	**0.39661**
	TE_B->Z (FR)	0.01860	0.01899	**0.03303**	0.32940	0.53639	**0.52794**	2.50740	2.41799	**2.68372**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00843	**0.02412**	0.32940	0.13703	**0.45682**	2.50740	0.60743	**2.48482**
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01553	**0.02253**	0.32940	0.27373	**0.45665**	2.50740	1.21453	**2.48490**
sg13g2_einvn_8	A->Z (RF)	0.01860	0.02992	**0.02178**	0.32940	0.54732	**0.45829**	2.50740	2.42892	**2.49406**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00556	**0.00265**	0.32940	0.13416	**0.00329**	2.50740	0.60456	**0.00492**
	TE_B	0.01860	0.00556	**0.00770**	0.32940	0.13416	**0.00730**	2.50740	0.60456	**0.00663**
sg13g2_einvn_4	A	0.01860	0.01002	**0.00522**	0.32940	0.26822	**0.00666**	2.50740	1.20902	**0.01002**
	TE_B	0.01860	0.01002	**0.01561**	0.32940	0.26822	**0.01476**	2.50740	1.20902	**0.01342**
sg13g2_einvn_8	A	0.01860	0.01899	**0.01031**	0.32940	0.53639	**0.01339**	2.50740	2.41799	**0.02020**
	TE_B	0.01860	0.01899	**0.03335**	0.32940	0.53639	**0.03070**	2.50740	2.41799	**0.02861**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00843	**0.00263**	0.32940	0.13703	**0.00340**	2.50740	0.60743	**0.00459**
sg13g2_einvn_4	A	0.01860	0.01553	**0.00493**	0.32940	0.27373	**0.00670**	2.50740	1.21453	**0.00944**
sg13g2_einvn_8	A	0.01860	0.02992	**0.00955**	0.32940	0.54732	**0.01343**	2.50740	2.42892	**0.01852**

Passive power(pJ) for A rising :

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

Passive power(pJ) for A falling :

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

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**-0.00183**	0.32940	**-0.00206**	2.50740	**0.00175**
sg13g2_einvn_4	0.01860	**-0.00430**	0.32940	**-0.00472**	2.50740	**0.00252**
sg13g2_einvn_8	0.01860	**-0.01088**	0.32940	**-0.01164**	2.50740	**-0.00557**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**0.00711**	0.32940	**0.00737**	2.50740	**0.01169**
sg13g2_einvn_4	0.01860	**0.01410**	0.32940	**0.01462**	2.50740	**0.02298**
sg13g2_einvn_8	0.01860	**0.02424**	0.32940	**0.02562**	2.50740	**0.03343**

FILLx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_2	3.62880
sg13g2_fill_4	7.25760
sg13g2_fill_8	14.51520

Pin Capacitance Information
Leakage Information

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

INVx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_1	0.00287	0.30000
sg13g2_inv_16	0.04354	4.80000
sg13g2_inv_2	0.00567	0.60000
sg13g2_inv_4	0.01122	1.20000
sg13g2_inv_8	0.02245	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_1	43.53740	63.00320	82.46900
sg13g2_inv_16	696.59900	1007.55000	1318.51000
sg13g2_inv_2	87.08110	125.95600	164.83000
sg13g2_inv_4	174.15000	251.89000	329.63000
sg13g2_inv_8	348.29800	503.80300	659.30800

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.02056**	0.32940	0.06480	**0.36330**	2.50740	0.30000	**2.05537**
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.01901**	0.32940	1.03680	**0.36723**	2.50740	4.80000	**2.06424**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01788**	0.32940	0.12960	**0.36253**	2.50740	0.60000	**2.05379**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01671**	0.32940	0.25920	**0.36302**	2.50740	1.20000	**2.05668**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01633**	0.32940	0.51840	**0.36333**	2.50740	2.40000	**2.05753**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01988**	0.32940	0.06480	**0.33725**	2.50740	0.30000	**1.92415**
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.01891**	0.32940	1.03680	**0.34155**	2.50740	4.80000	**1.93422**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01730**	0.32940	0.12960	**0.33647**	2.50740	0.60000	**1.92428**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01626**	0.32940	0.25920	**0.33803**	2.50740	1.20000	**1.93155**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01594**	0.32940	0.51840	**0.33825**	2.50740	2.40000	**1.93235**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00152**	0.32940	0.06480	**0.00169**	2.50740	0.30000	**0.00298**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02041**	0.32940	1.03680	**0.02497**	2.50740	4.80000	**0.04673**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00263**	0.32940	0.12960	**0.00310**	2.50740	0.60000	**0.00573**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00518**	0.32940	0.25920	**0.00622**	2.50740	1.20000	**0.01108**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01026**	0.32940	0.51840	**0.01244**	2.50740	2.40000	**0.02144**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00155**	0.32940	0.06480	**0.00172**	2.50740	0.30000	**0.00299**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.01767**	0.32940	1.03680	**0.02408**	2.50740	4.80000	**0.04420**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00238**	0.32940	0.12960	**0.00297**	2.50740	0.60000	**0.00552**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00450**	0.32940	0.25920	**0.00576**	2.50740	1.20000	**0.01099**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.00888**	0.32940	0.51840	**0.01177**	2.50740	2.40000	**0.02158**

LGCP

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT		OUTPUT
CLK	GATE	GCLK
0	x	0
1	x	GCLK

Footprint

Cell Name	Area
sg13g2_lgcp_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CLK	GATE	GCLK
sg13g2_lgcp_1	0.00494	0.00230	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	376.58400	389.66800	412.84000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.07506**	0.32940	0.06480	**0.34539**	2.50740	0.30000	**1.20926**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.06102**	0.32940	0.06480	**0.30849**	2.50740	0.30000	**1.04286**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.23041**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.10223**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03683**	1.26300	1.26300	**-0.15850**	2.50740	2.50740	**-0.23763**
	setup	**CLK (R)**	0.01860	0.01860	**0.07452**	1.26300	1.26300	**0.23146**	2.50740	2.50740	**0.32659**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01972**	1.26300	1.26300	**-0.01097**	2.50740	2.50740	**-0.00301**
	setup	**CLK (R)**	0.01860	0.01860	**0.05489**	1.26300	1.26300	**0.05603**	2.50740	2.50740	**0.06228**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.00867**	0.32940	0.06480	**0.00865**	2.50740	0.30000	**0.01315**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.00517**	0.32940	0.06480	**0.00571**	2.50740	0.30000	**0.01126**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.00730**	0.32940	**0.00730**	2.50740	**0.01420**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.00878**	0.32940	**0.00880**	2.50740	**0.01599**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.01924**	0.32940	**0.02002**	2.50740	**0.02482**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.01315**	0.32940	**0.02863**	2.50740	**0.03406**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.01924**	0.32940	**0.02002**	2.50740	**0.02482**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.01315**	0.32940	**0.02863**	2.50740	**0.03406**

MUX2x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux2_1	18.14400
sg13g2_mux2_2	19.95840

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_1	0.00278	0.00288	0.00505	0.30000
sg13g2_mux2_2	0.00277	0.00288	0.00504	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	220.22500	246.33900	274.31600
sg13g2_mux2_2	279.33300	309.29200	337.39300

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.07776**	0.32940	0.06480	**0.35909**	2.50740	0.30000	**1.23461**
	A1->X (RR)	0.01860	0.00100	**0.07398**	0.32940	0.06480	**0.35885**	2.50740	0.30000	**1.24421**
	S->X (-R)	0.01860	0.00100	**0.08087**	0.32940	0.06480	**0.36070**	2.50740	0.30000	**1.24661**
sg13g2_mux2_2	A0->X (RR)	0.01860	0.00100	**0.09001**	0.32940	0.12960	**0.39492**	2.50740	0.60000	**1.31798**
	A1->X (RR)	0.01860	0.00100	**0.08434**	0.32940	0.12960	**0.39378**	2.50740	0.60000	**1.32538**
	S->X (-R)	0.01860	0.00100	**0.09272**	0.32940	0.12960	**0.39156**	2.50740	0.60000	**1.32478**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.09719**	0.32940	0.06480	**0.36971**	2.50740	0.30000	**1.17439**
	A1->X (FF)	0.01860	0.00100	**0.09699**	0.32940	0.06480	**0.37003**	2.50740	0.30000	**1.17651**
	S->X (-F)	0.01860	0.00100	**0.10823**	0.32940	0.06480	**0.36077**	2.50740	0.30000	**1.13446**
sg13g2_mux2_2	A0->X (FF)	0.01860	0.00100	**0.11734**	0.32940	0.12960	**0.41780**	2.50740	0.60000	**1.27385**
	A1->X (FF)	0.01860	0.00100	**0.11710**	0.32940	0.12960	**0.41802**	2.50740	0.60000	**1.27616**
	S->X (-F)	0.01860	0.00100	**0.12936**	0.32940	0.12960	**0.40520**	2.50740	0.60000	**1.22613**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.08087**	0.32940	0.06480	**0.36070**	2.50740	0.30000	**1.24661**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.11556**	0.32940	0.06480	**0.38381**	2.50740	0.30000	**1.19323**
sg13g2_mux2_2	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.09272**	0.32940	0.12960	**0.39156**	2.50740	0.60000	**1.32478**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.12759**	0.32940	0.12960	**0.40535**	2.50740	0.60000	**1.21884**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.10823**	0.32940	0.06480	**0.36077**	2.50740	0.30000	**1.13446**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.13861**	0.32940	0.06480	**0.38437**	2.50740	0.30000	**1.09990**
sg13g2_mux2_2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.12936**	0.32940	0.12960	**0.40520**	2.50740	0.60000	**1.22613**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.15996**	0.32940	0.12960	**0.42102**	2.50740	0.60000	**1.13843**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.00883**	0.32940	0.06480	**0.00891**	2.50740	0.30000	**0.01509**
	A1	0.01860	0.00100	**0.00893**	0.32940	0.06480	**0.00901**	2.50740	0.30000	**0.01519**
	S	0.01860	0.00100	**0.00908**	0.32940	0.06480	**0.00929**	2.50740	0.30000	**0.01406**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.01268**	0.32940	0.12960	**0.01290**	2.50740	0.60000	**0.01892**
	A1	0.01860	0.00100	**0.01273**	0.32940	0.12960	**0.01302**	2.50740	0.60000	**0.01900**
	S	0.01860	0.00100	**0.01283**	0.32940	0.12960	**0.01343**	2.50740	0.60000	**0.01797**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.00869**	0.32940	0.06480	**0.00906**	2.50740	0.30000	**0.01538**
	A1	0.01860	0.00100	**0.00862**	0.32940	0.06480	**0.00896**	2.50740	0.30000	**0.01542**
	S	0.01860	0.00100	**0.00872**	0.32940	0.06480	**0.00904**	2.50740	0.30000	**0.01406**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.01253**	0.32940	0.12960	**0.01284**	2.50740	0.60000	**0.01939**
	A1	0.01860	0.00100	**0.01249**	0.32940	0.12960	**0.01275**	2.50740	0.60000	**0.01910**
	S	0.01860	0.00100	**0.01238**	0.32940	0.12960	**0.01293**	2.50740	0.60000	**0.01778**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.00919**	0.32940	0.06480	**0.00944**	2.50740	0.30000	**0.00941**
	S	(!A0 * A1)	0.01860	0.00100	**0.00908**	0.32940	0.06480	**0.00929**	2.50740	0.30000	**0.01406**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.01297**	0.32940	0.12960	**0.01372**	2.50740	0.60000	**0.01360**
	S	(!A0 * A1)	0.01860	0.00100	**0.01283**	0.32940	0.12960	**0.01343**	2.50740	0.60000	**0.01797**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.00932**	0.32940	0.06480	**0.00978**	2.50740	0.30000	**0.00975**
	S	(!A0 * A1)	0.01860	0.00100	**0.00872**	0.32940	0.06480	**0.00904**	2.50740	0.30000	**0.01406**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.01301**	0.32940	0.12960	**0.01373**	2.50740	0.60000	**0.01388**
	S	(!A0 * A1)	0.01860	0.00100	**0.01238**	0.32940	0.12960	**0.01293**	2.50740	0.60000	**0.01778**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00408**	0.32940	**0.00399**	2.50740	**0.00955**
sg13g2_mux2_2	0.01860	**0.00408**	0.32940	**0.00399**	2.50740	**0.00954**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00416**	0.32940	**0.00426**	2.50740	**0.00995**
sg13g2_mux2_2	0.01860	**0.00416**	0.32940	**0.00426**	2.50740	**0.00995**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	(A0 * A1)	0.01860	**0.00408**	0.32940	**0.00399**	2.50740	**0.00955**
	(!A0 * !A1)	0.01860	**0.00378**	0.32940	**0.00382**	2.50740	**0.00935**
sg13g2_mux2_2	(A0 * A1)	0.01860	**0.00408**	0.32940	**0.00399**	2.50740	**0.00954**
	(!A0 * !A1)	0.01860	**0.00378**	0.32940	**0.00381**	2.50740	**0.00935**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	**(A0 * A1)**	0.01860	**0.00391**	0.32940	**0.00408**	2.50740	**0.00974**
	(!A0 * !A1)	0.01860	**0.00416**	0.32940	**0.00426**	2.50740	**0.00995**
sg13g2_mux2_2	**(A0 * A1)**	0.01860	**0.00391**	0.32940	**0.00408**	2.50740	**0.00974**
	(!A0 * !A1)	0.01860	**0.00416**	0.32940	**0.00426**	2.50740	**0.00995**

MUX4

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00278	0.00276	0.00278	0.00284	0.00825	0.00502	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	346.84400	464.97500	578.35800

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.13749**	0.32940	0.06480	**0.44293**	2.50740	0.30000	**1.43168**
	A1->X (RR)	0.01860	0.00100	**0.13312**	0.32940	0.06480	**0.44143**	2.50740	0.30000	**1.43010**
	A2->X (RR)	0.01860	0.00100	**0.14247**	0.32940	0.06480	**0.45257**	2.50740	0.30000	**1.45701**
	A3->X (RR)	0.01860	0.00100	**0.13843**	0.32940	0.06480	**0.45058**	2.50740	0.30000	**1.45343**
	S0->X (-R)	0.01860	0.00100	**0.12047**	0.32940	0.06480	**0.43598**	2.50740	0.30000	**1.41562**
	S1->X (-R)	0.01860	0.00100	**0.07128**	0.32940	0.06480	**0.35437**	2.50740	0.30000	**1.22338**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.16011**	0.32940	0.06480	**0.44049**	2.50740	0.30000	**1.25803**
	A1->X (FF)	0.01860	0.00100	**0.16178**	0.32940	0.06480	**0.44008**	2.50740	0.30000	**1.25928**
	A2->X (FF)	0.01860	0.00100	**0.16988**	0.32940	0.06480	**0.45431**	2.50740	0.30000	**1.28795**
	A3->X (FF)	0.01860	0.00100	**0.17165**	0.32940	0.06480	**0.45347**	2.50740	0.30000	**1.28630**
	S0->X (-F)	0.01860	0.00100	**0.14782**	0.32940	0.06480	**0.44059**	2.50740	0.30000	**1.28045**
	S1->X (-F)	0.01860	0.00100	**0.08710**	0.32940	0.06480	**0.34845**	2.50740	0.30000	**1.09407**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.12047**	0.32940	0.06480	**0.43598**	2.50740	0.30000	**1.41562**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.11358**	0.32940	0.06480	**0.42167**	2.50740	0.30000	**1.38160**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.17578**	0.32940	0.06480	**0.47372**	2.50740	0.30000	**1.34459**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.17041**	0.32940	0.06480	**0.46629**	2.50740	0.30000	**1.33335**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.07149**	0.32940	0.06480	**0.35436**	2.50740	0.30000	**1.22302**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.07128**	0.32940	0.06480	**0.35437**	2.50740	0.30000	**1.22338**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.09523**	0.32940	0.06480	**0.37238**	2.50740	0.30000	**1.16946**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.09493**	0.32940	0.06480	**0.37254**	2.50740	0.30000	**1.16931**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.14782**	0.32940	0.06480	**0.44059**	2.50740	0.30000	**1.28045**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.13458**	0.32940	0.06480	**0.42082**	2.50740	0.30000	**1.23933**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.19484**	0.32940	0.06480	**0.47774**	2.50740	0.30000	**1.25271**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.18397**	0.32940	0.06480	**0.46353**	2.50740	0.30000	**1.23520**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.08724**	0.32940	0.06480	**0.34880**	2.50740	0.30000	**1.09371**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.08710**	0.32940	0.06480	**0.34845**	2.50740	0.30000	**1.09407**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.10733**	0.32940	0.06480	**0.37041**	2.50740	0.30000	**1.07779**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.10757**	0.32940	0.06480	**0.37048**	2.50740	0.30000	**1.07771**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0	0.01860	0.00100	**0.01773**	0.32940	0.06480	**0.01769**	2.50740	0.30000	**0.02139**
	A1	0.01860	0.00100	**0.01849**	0.32940	0.06480	**0.01840**	2.50740	0.30000	**0.02225**
	A2	0.01860	0.00100	**0.01903**	0.32940	0.06480	**0.01900**	2.50740	0.30000	**0.02288**
	A3	0.01860	0.00100	**0.01792**	0.32940	0.06480	**0.01786**	2.50740	0.30000	**0.02154**
	S0	0.01860	0.00100	**0.00130**	0.32940	0.06480	**-0.00060**	2.50740	0.30000	**0.01126**
	S1	0.01860	0.00100	**0.00744**	0.32940	0.06480	**0.00854**	2.50740	0.30000	**0.01250**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0	0.01860	0.00100	**0.01290**	0.32940	0.06480	**0.01303**	2.50740	0.30000	**0.01706**
	A1	0.01860	0.00100	**0.01316**	0.32940	0.06480	**0.01331**	2.50740	0.30000	**0.01737**
	A2	0.01860	0.00100	**0.01814**	0.32940	0.06480	**0.01827**	2.50740	0.30000	**0.02237**
	A3	0.01860	0.00100	**0.01389**	0.32940	0.06480	**0.01398**	2.50740	0.30000	**0.01813**
	S0	0.01860	0.00100	**0.00797**	0.32940	0.06480	**0.00818**	2.50740	0.30000	**0.01379**
	S1	0.01860	0.00100	**0.00462**	0.32940	0.06480	**0.00506**	2.50740	0.30000	**0.01069**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.01262**	0.32940	0.06480	**0.01114**	2.50740	0.30000	**0.00453**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01262**	0.32940	0.06480	**0.01119**	2.50740	0.30000	**0.00454**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00130**	0.32940	0.06480	**-0.00060**	2.50740	0.30000	**0.01126**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00136**	0.32940	0.06480	**-0.00065**	2.50740	0.30000	**0.01083**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00744**	0.32940	0.06480	**0.00854**	2.50740	0.30000	**0.01250**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00744**	0.32940	0.06480	**0.00854**	2.50740	0.30000	**0.01257**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00514**	0.32940	0.06480	**0.00536**	2.50740	0.30000	**0.01059**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00510**	0.32940	0.06480	**0.00537**	2.50740	0.30000	**0.01063**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.01198**	0.32940	0.06480	**0.01168**	2.50740	0.30000	**0.01184**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01188**	0.32940	0.06480	**0.01200**	2.50740	0.30000	**0.01207**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00813**	0.32940	0.06480	**0.00779**	2.50740	0.30000	**0.01368**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00797**	0.32940	0.06480	**0.00818**	2.50740	0.30000	**0.01379**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00696**	0.32940	0.06480	**0.00832**	2.50740	0.30000	**0.01208**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00696**	0.32940	0.06480	**0.00828**	2.50740	0.30000	**0.01208**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00462**	0.32940	0.06480	**0.00506**	2.50740	0.30000	**0.01069**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00398**	0.32940	0.06480	**0.00441**	2.50740	0.30000	**0.00992**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.01568**	0.32940	**0.01794**	2.50740	**0.02456**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.01169**	0.32940	**0.01318**	2.50740	**0.02636**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.01500**	0.32940	**0.01681**	2.50740	**0.02357**
	(A0 * A1 * !S1)	0.01860	**0.01568**	0.32940	**0.01794**	2.50740	**0.02456**
	(!A2 * !A3 * S1)	0.01860	**0.01529**	0.32940	**0.01709**	2.50740	**0.02394**
	(!A0 * !A1 * !S1)	0.01860	**0.01627**	0.32940	**0.01858**	2.50740	**0.02522**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.01036**	0.32940	**0.01131**	2.50740	**0.02469**
	(A0 * A1 * !S1)	0.01860	**0.01169**	0.32940	**0.01318**	2.50740	**0.02636**
	(!A2 * !A3 * S1)	0.01860	**0.01019**	0.32940	**0.01110**	2.50740	**0.02437**
	(!A0 * !A1 * !S1)	0.01860	**0.01643**	0.32940	**0.01903**	2.50740	**0.02555**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00441**	0.32940	**0.00471**	2.50740	**0.01176**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00425**	0.32940	**0.00472**	2.50740	**0.01193**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00428**	0.32940	**0.00457**	2.50740	**0.01158**
	(A0 * A2 * !S0)	0.01860	**0.00427**	0.32940	**0.00456**	2.50740	**0.01158**
	(!A1 * !A3 * S0)	0.01860	**0.00441**	0.32940	**0.00471**	2.50740	**0.01176**
	(!A0 * !A2 * !S0)	0.01860	**0.00442**	0.32940	**0.00473**	2.50740	**0.01174**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00427**	0.32940	**0.00478**	2.50740	**0.01214**
	(A0 * A2 * !S0)	0.01860	**0.00426**	0.32940	**0.00476**	2.50740	**0.01209**
	(!A1 * !A3 * S0)	0.01860	**0.00424**	0.32940	**0.00472**	2.50740	**0.01192**
	(!A0 * !A2 * !S0)	0.01860	**0.00425**	0.32940	**0.00472**	2.50740	**0.01193**

NAND2Bx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_1	9.07200
sg13g2_nand2b_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00224	0.00303	0.30000
sg13g2_nand2b_2	0.00220	0.00562	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	74.95490	128.61800	196.39500
sg13g2_nand2b_2	148.67300	207.93000	357.85200

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.05209**	0.32940	0.06480	**0.32004**	2.50740	0.30000	**1.18183**
	B->Y (FR)	0.01860	0.00100	**0.02616**	0.32940	0.06480	**0.37044**	2.50740	0.30000	**2.06406**
sg13g2_nand2b_2	A_N->Y (RR)	0.01860	0.00100	**0.06790**	0.32940	0.12960	**0.35961**	2.50740	0.60000	**1.27610**
	B->Y (FR)	0.01860	0.00100	**0.02024**	0.32940	0.12960	**0.36516**	2.50740	0.60000	**2.05773**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.06265**	0.32940	0.06480	**0.41121**	2.50740	0.30000	**1.53455**
	B->Y (RF)	0.01860	0.00100	**0.03786**	0.32940	0.06480	**0.44128**	2.50740	0.30000	**2.32408**
sg13g2_nand2b_2	A_N->Y (FF)	0.01860	0.00100	**0.08421**	0.32940	0.12960	**0.47235**	2.50740	0.60000	**1.71059**
	B->Y (RF)	0.01860	0.00100	**0.02750**	0.32940	0.12960	**0.46753**	2.50740	0.60000	**2.53376**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00193**	0.32940	0.06480	**0.00194**	2.50740	0.30000	**0.00185**
	B	0.01860	0.00100	**0.00204**	0.32940	0.06480	**0.00202**	2.50740	0.30000	**0.00307**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.00378**	0.32940	0.12960	**0.00369**	2.50740	0.60000	**0.00352**
	B	0.01860	0.00100	**0.00290**	0.32940	0.12960	**0.00334**	2.50740	0.60000	**0.00549**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00410**	0.32940	0.06480	**0.00431**	2.50740	0.30000	**0.00405**
	B	0.01860	0.00100	**0.00411**	0.32940	0.06480	**0.00411**	2.50740	0.30000	**0.00478**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.00819**	0.32940	0.12960	**0.00880**	2.50740	0.60000	**0.00816**
	B	0.01860	0.00100	**0.00441**	0.32940	0.12960	**0.00477**	2.50740	0.60000	**0.00666**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00407**	0.32940	**0.00427**	2.50740	**0.00998**
sg13g2_nand2b_2	0.01860	**0.00661**	0.32940	**0.00644**	2.50740	**0.01154**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00231**	0.32940	**0.00256**	2.50740	**0.00836**
sg13g2_nand2b_2	0.01860	**0.00618**	0.32940	**0.00621**	2.50740	**0.01148**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00407**	0.32940	**0.00427**	2.50740	**0.00998**
sg13g2_nand2b_2	**!B**	0.01860	**0.00661**	0.32940	**0.00644**	2.50740	**0.01154**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00231**	0.32940	**0.00256**	2.50740	**0.00836**
sg13g2_nand2b_2	**!B**	0.01860	**0.00618**	0.32940	**0.00621**	2.50740	**0.01148**

NAND2x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2_1	7.25760
sg13g2_nand2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_1	0.00289	0.00298	0.30000
sg13g2_nand2_2	0.00559	0.00571	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	43.35500	81.24560	164.78900
sg13g2_nand2_2	85.57640	160.59500	326.29100

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.02272**	0.32940	0.06480	**0.36541**	2.50740	0.30000	**2.05647**
	B->Y (FR)	0.01860	0.00100	**0.02648**	0.32940	0.06480	**0.36985**	2.50740	0.30000	**2.06205**
sg13g2_nand2_2	A->Y (FR)	0.01860	0.00100	**0.02044**	0.32940	0.12960	**0.36562**	2.50740	0.60000	**2.05927**
	B->Y (FR)	0.01860	0.00100	**0.02461**	0.32940	0.12960	**0.37031**	2.50740	0.60000	**2.06489**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.03015**	0.32940	0.06480	**0.45549**	2.50740	0.30000	**2.47157**
	B->Y (RF)	0.01860	0.00100	**0.03506**	0.32940	0.06480	**0.43819**	2.50740	0.30000	**2.31785**
sg13g2_nand2_2	A->Y (RF)	0.01860	0.00100	**0.02776**	0.32940	0.12960	**0.46749**	2.50740	0.60000	**2.53313**
	B->Y (RF)	0.01860	0.00100	**0.03354**	0.32940	0.12960	**0.45089**	2.50740	0.60000	**2.37824**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00167**	0.32940	0.06480	**0.00183**	2.50740	0.30000	**0.00290**
	B	0.01860	0.00100	**0.00192**	0.32940	0.06480	**0.00188**	2.50740	0.30000	**0.00296**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00294**	0.32940	0.12960	**0.00338**	2.50740	0.60000	**0.00541**
	B	0.01860	0.00100	**0.00384**	0.32940	0.12960	**0.00377**	2.50740	0.60000	**0.00571**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00235**	0.32940	0.06480	**0.00246**	2.50740	0.30000	**0.00335**
	B	0.01860	0.00100	**0.00409**	0.32940	0.06480	**0.00409**	2.50740	0.30000	**0.00474**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00442**	0.32940	0.12960	**0.00482**	2.50740	0.60000	**0.00657**
	B	0.01860	0.00100	**0.00781**	0.32940	0.12960	**0.00791**	2.50740	0.60000	**0.00911**

NAND3B

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00222	0.00297	0.00299	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	76.84160	134.52400	278.72700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.05491**	0.32940	0.06480	**0.32172**	2.50740	0.30000	**1.18019**
	B->Y (FR)	0.01860	0.00100	**0.02918**	0.32940	0.06480	**0.37343**	2.50740	0.30000	**2.06706**
	C->Y (FR)	0.01860	0.00100	**0.03151**	0.32940	0.06480	**0.37711**	2.50740	0.30000	**2.07152**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.07615**	0.32940	0.06480	**0.54110**	2.50740	0.30000	**2.09688**
	B->Y (RF)	0.01860	0.00100	**0.05623**	0.32940	0.06480	**0.57299**	2.50740	0.30000	**2.89043**
	C->Y (RF)	0.01860	0.00100	**0.06023**	0.32940	0.06480	**0.55632**	2.50740	0.30000	**2.71271**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00207**	0.32940	0.06480	**0.00203**	2.50740	0.30000	**0.00194**
	B	0.01860	0.00100	**0.00224**	0.32940	0.06480	**0.00218**	2.50740	0.30000	**0.00307**
	C	0.01860	0.00100	**0.00247**	0.32940	0.06480	**0.00231**	2.50740	0.30000	**0.00325**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00539**	0.32940	0.06480	**0.00552**	2.50740	0.30000	**0.00495**
	B	0.01860	0.00100	**0.00538**	0.32940	0.06480	**0.00537**	2.50740	0.30000	**0.00561**
	C	0.01860	0.00100	**0.00687**	0.32940	0.06480	**0.00689**	2.50740	0.30000	**0.00704**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00407**	0.32940	**0.00428**	2.50740	**0.00998**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00229**	0.32940	**0.00254**	2.50740	**0.00834**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00407**	0.32940	**0.00428**	2.50740	**0.00998**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00229**	0.32940	**0.00254**	2.50740	**0.00834**

NAND3

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nand3_1	0.00288	0.00301	0.00298	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	45.27960	87.18480	247.17300

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (FR)	0.01860	0.00100	**0.02562**	0.32940	0.06480	**0.36850**	2.50740	0.30000	**2.06045**
	B->Y (FR)	0.01860	0.00100	**0.02954**	0.32940	0.06480	**0.37306**	2.50740	0.30000	**2.06682**
	C->Y (FR)	0.01860	0.00100	**0.03139**	0.32940	0.06480	**0.37680**	2.50740	0.30000	**2.07117**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (RF)	0.01860	0.00100	**0.04393**	0.32940	0.06480	**0.57586**	2.50740	0.30000	**2.99382**
	B->Y (RF)	0.01860	0.00100	**0.05331**	0.32940	0.06480	**0.56988**	2.50740	0.30000	**2.88425**
	C->Y (RF)	0.01860	0.00100	**0.05715**	0.32940	0.06480	**0.55316**	2.50740	0.30000	**2.70611**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00183**	0.32940	0.06480	**0.00195**	2.50740	0.30000	**0.00284**
	B	0.01860	0.00100	**0.00208**	0.32940	0.06480	**0.00200**	2.50740	0.30000	**0.00290**
	C	0.01860	0.00100	**0.00233**	0.32940	0.06480	**0.00215**	2.50740	0.30000	**0.00329**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00365**	0.32940	0.06480	**0.00381**	2.50740	0.30000	**0.00422**
	B	0.01860	0.00100	**0.00541**	0.32940	0.06480	**0.00537**	2.50740	0.30000	**0.00556**
	C	0.01860	0.00100	**0.00688**	0.32940	0.06480	**0.00690**	2.50740	0.30000	**0.00701**

NAND4

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand4_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nand4_1	0.00287	0.00301	0.00303	0.00300	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	47.46070	91.57180	329.65400

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (FR)	0.01860	0.00100	**0.02726**	0.32940	0.06480	**0.37023**	2.50740	0.30000	**2.06166**
	B->Y (FR)	0.01860	0.00100	**0.03125**	0.32940	0.06480	**0.37490**	2.50740	0.30000	**2.06782**
	C->Y (FR)	0.01860	0.00100	**0.03342**	0.32940	0.06480	**0.37897**	2.50740	0.30000	**2.07381**
	D->Y (FR)	0.01860	0.00100	**0.03420**	0.32940	0.06480	**0.38221**	2.50740	0.30000	**2.07837**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (RF)	0.01860	0.00100	**0.05714**	0.32940	0.06480	**0.69756**	2.50740	0.30000	**3.51281**
	B->Y (RF)	0.01860	0.00100	**0.07121**	0.32940	0.06480	**0.70115**	2.50740	0.30000	**3.43739**
	C->Y (RF)	0.01860	0.00100	**0.07919**	0.32940	0.06480	**0.69230**	2.50740	0.30000	**3.28792**
	D->Y (RF)	0.01860	0.00100	**0.08296**	0.32940	0.06480	**0.68493**	2.50740	0.30000	**3.15966**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00189**	0.32940	0.06480	**0.00201**	2.50740	0.30000	**0.00291**
	B	0.01860	0.00100	**0.00215**	0.32940	0.06480	**0.00206**	2.50740	0.30000	**0.00274**
	C	0.01860	0.00100	**0.00242**	0.32940	0.06480	**0.00222**	2.50740	0.30000	**0.00296**
	D	0.01860	0.00100	**0.00263**	0.32940	0.06480	**0.00242**	2.50740	0.30000	**0.00324**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00440**	0.32940	0.06480	**0.00437**	2.50740	0.30000	**0.00523**
	B	0.01860	0.00100	**0.00618**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.00658**
	C	0.01860	0.00100	**0.00768**	0.32940	0.06480	**0.00752**	2.50740	0.30000	**0.00807**
	D	0.01860	0.00100	**0.00911**	0.32940	0.06480	**0.00896**	2.50740	0.30000	**0.00933**

NOR2Bx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2b_1	9.07200
sg13g2_nor2b_2	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B_N	Y
sg13g2_nor2b_1	0.00292	0.00227	0.30000
sg13g2_nor2b_2	0.00567	0.00268	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_1	97.25820	130.25800	166.69400
sg13g2_nor2b_2	165.68700	219.03100	278.86400

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.03532**	0.32940	0.06480	**0.54959**	2.50740	0.30000	**2.89765**
	B_N->Y (RR)	0.01860	0.00100	**0.07189**	0.32940	0.06480	**0.52910**	2.50740	0.30000	**2.08124**
sg13g2_nor2b_2	A->Y (FR)	0.01860	0.00100	**0.03072**	0.32940	0.12960	**0.54838**	2.50740	0.60000	**2.89584**
	B_N->Y (RR)	0.01860	0.00100	**0.07856**	0.32940	0.12960	**0.55546**	2.50740	0.60000	**2.15312**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.02186**	0.32940	0.06480	**0.33952**	2.50740	0.30000	**1.92662**
	B_N->Y (FF)	0.01860	0.00100	**0.05893**	0.32940	0.06480	**0.29350**	2.50740	0.30000	**0.99476**
sg13g2_nor2b_2	A->Y (RF)	0.01860	0.00100	**0.02005**	0.32940	0.12960	**0.34723**	2.50740	0.60000	**1.96978**
	B_N->Y (FF)	0.01860	0.00100	**0.07005**	0.32940	0.12960	**0.32750**	2.50740	0.60000	**1.08365**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00214**	0.32940	0.06480	**0.00223**	2.50740	0.30000	**0.00316**
	B_N	0.01860	0.00100	**0.00437**	0.32940	0.06480	**0.00455**	2.50740	0.30000	**0.00397**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00422**	0.32940	0.12960	**0.00453**	2.50740	0.60000	**0.00647**
	B_N	0.01860	0.00100	**0.00842**	0.32940	0.12960	**0.00878**	2.50740	0.60000	**0.00788**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00187**	0.32940	0.06480	**0.00208**	2.50740	0.30000	**0.00311**
	B_N	0.01860	0.00100	**0.00233**	0.32940	0.06480	**0.00233**	2.50740	0.30000	**0.00224**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00291**	0.32940	0.12960	**0.00354**	2.50740	0.60000	**0.00571**
	B_N	0.01860	0.00100	**0.00419**	0.32940	0.12960	**0.00419**	2.50740	0.60000	**0.00396**

Passive power(pJ) for B_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00416**	0.32940	**0.00424**	2.50740	**0.00982**
sg13g2_nor2b_2	0.01860	**0.00738**	0.32940	**0.00731**	2.50740	**0.01367**

Passive power(pJ) for B_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00370**	0.32940	**0.00389**	2.50740	**0.00955**
sg13g2_nor2b_2	0.01860	**0.00629**	0.32940	**0.00641**	2.50740	**0.01275**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00416**	0.32940	**0.00424**	2.50740	**0.00982**
sg13g2_nor2b_2	**A**	0.01860	**0.00738**	0.32940	**0.00731**	2.50740	**0.01367**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00370**	0.32940	**0.00389**	2.50740	**0.00955**
sg13g2_nor2b_2	**A**	0.01860	**0.00629**	0.32940	**0.00641**	2.50740	**0.01275**

NOR2x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2_1	7.25760
sg13g2_nor2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_1	0.00304	0.00292	0.30000
sg13g2_nor2_2	0.00580	0.00560	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	65.68830	82.92350	103.60100
sg13g2_nor2_2	131.42600	165.86100	207.25700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.04195**	0.32940	0.06480	**0.52887**	2.50740	0.30000	**2.68189**
	B->Y (FR)	0.01860	0.00100	**0.03544**	0.32940	0.06480	**0.54924**	2.50740	0.30000	**2.89652**
sg13g2_nor2_2	A->Y (FR)	0.01860	0.00100	**0.03939**	0.32940	0.06480	**0.33802**	2.50740	0.30000	**1.72753**
	B->Y (FR)	0.01860	0.00100	**0.03106**	0.32940	0.06480	**0.35427**	2.50740	0.30000	**1.90204**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.02515**	0.32940	0.06480	**0.34378**	2.50740	0.30000	**1.93182**
	B->Y (RF)	0.01860	0.00100	**0.02194**	0.32940	0.06480	**0.33953**	2.50740	0.30000	**1.92656**
sg13g2_nor2_2	A->Y (RF)	0.01860	0.00100	**0.02364**	0.32940	0.06480	**0.24616**	2.50740	0.30000	**1.36156**
	B->Y (RF)	0.01860	0.00100	**0.01976**	0.32940	0.06480	**0.23980**	2.50740	0.30000	**1.35258**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00432**	0.32940	0.06480	**0.00424**	2.50740	0.30000	**0.00493**
	B	0.01860	0.00100	**0.00215**	0.32940	0.06480	**0.00224**	2.50740	0.30000	**0.00327**
sg13g2_nor2_2	A	0.01860	0.00100	**0.00872**	0.32940	0.06480	**0.00863**	2.50740	0.30000	**0.01174**
	B	0.01860	0.00100	**0.00431**	0.32940	0.06480	**0.00469**	2.50740	0.30000	**0.00883**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00203**	0.32940	0.06480	**0.00194**	2.50740	0.30000	**0.00310**
	B	0.01860	0.00100	**0.00186**	0.32940	0.06480	**0.00207**	2.50740	0.30000	**0.00312**
sg13g2_nor2_2	A	0.01860	0.00100	**0.00405**	0.32940	0.06480	**0.00403**	2.50740	0.30000	**0.00793**
	B	0.01860	0.00100	**0.00285**	0.32940	0.06480	**0.00341**	2.50740	0.30000	**0.00750**

NOR3x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor3_1	9.07200
sg13g2_nor3_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_1	0.00301	0.00302	0.00290	0.30000
sg13g2_nor3_2	0.00576	0.00575	0.00557	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	69.66900	95.08410	133.66500
sg13g2_nor3_2	134.33600	185.71000	261.22200

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.07677**	0.32940	0.06480	**0.73031**	2.50740	0.30000	**3.38852**
	B->Y (FR)	0.01860	0.00100	**0.07133**	0.32940	0.06480	**0.74307**	2.50740	0.30000	**3.58586**
	C->Y (FR)	0.01860	0.00100	**0.05497**	0.32940	0.06480	**0.74326**	2.50740	0.30000	**3.72150**
sg13g2_nor3_2	A->Y (FR)	0.01860	0.00100	**0.06982**	0.32940	0.12960	**0.73100**	2.50740	0.60000	**3.39595**
	B->Y (FR)	0.01860	0.00100	**0.06470**	0.32940	0.12960	**0.74456**	2.50740	0.60000	**3.59840**
	C->Y (FR)	0.01860	0.00100	**0.04630**	0.32940	0.12960	**0.74282**	2.50740	0.60000	**3.73142**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.02780**	0.32940	0.06480	**0.34248**	2.50740	0.30000	**1.89721**
	B->Y (RF)	0.01860	0.00100	**0.02736**	0.32940	0.06480	**0.33955**	2.50740	0.30000	**1.89610**
	C->Y (RF)	0.01860	0.00100	**0.02386**	0.32940	0.06480	**0.33476**	2.50740	0.30000	**1.88945**
sg13g2_nor3_2	A->Y (RF)	0.01860	0.00100	**0.02627**	0.32940	0.12960	**0.35032**	2.50740	0.60000	**1.94158**
	B->Y (RF)	0.01860	0.00100	**0.02600**	0.32940	0.12960	**0.34673**	2.50740	0.60000	**1.93762**
	C->Y (RF)	0.01860	0.00100	**0.02192**	0.32940	0.12960	**0.34134**	2.50740	0.60000	**1.93061**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.00738**	0.32940	0.06480	**0.00723**	2.50740	0.30000	**0.00840**
	B	0.01860	0.00100	**0.00547**	0.32940	0.06480	**0.00535**	2.50740	0.30000	**0.00606**
	C	0.01860	0.00100	**0.00334**	0.32940	0.06480	**0.00337**	2.50740	0.30000	**0.00441**
sg13g2_nor3_2	A	0.01860	0.00100	**0.01431**	0.32940	0.12960	**0.01406**	2.50740	0.60000	**0.01564**
	B	0.01860	0.00100	**0.01050**	0.32940	0.12960	**0.01031**	2.50740	0.60000	**0.01162**
	C	0.01860	0.00100	**0.00615**	0.32940	0.12960	**0.00629**	2.50740	0.60000	**0.00834**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.00274**	0.32940	0.06480	**0.00251**	2.50740	0.30000	**0.00353**
	B	0.01860	0.00100	**0.00246**	0.32940	0.06480	**0.00233**	2.50740	0.30000	**0.00342**
	C	0.01860	0.00100	**0.00202**	0.32940	0.06480	**0.00216**	2.50740	0.30000	**0.00315**
sg13g2_nor3_2	A	0.01860	0.00100	**0.00501**	0.32940	0.12960	**0.00461**	2.50740	0.60000	**0.00670**
	B	0.01860	0.00100	**0.00455**	0.32940	0.12960	**0.00438**	2.50740	0.60000	**0.00636**
	C	0.01860	0.00100	**0.00318**	0.32940	0.12960	**0.00368**	2.50740	0.60000	**0.00569**

NOR4x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor4_1	10.88640
sg13g2_nor4_2	21.77280

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_1	0.00299	0.00300	0.00297	0.00283	0.30000
sg13g2_nor4_2	0.00576	0.00572	0.00567	0.00553	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	69.49250	99.76180	174.14900
sg13g2_nor4_2	138.96000	199.53600	348.29600

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.11587**	0.32940	0.06480	**0.95079**	2.50740	0.30000	**4.17770**
	B->Y (FR)	0.01860	0.00100	**0.11097**	0.32940	0.06480	**0.95424**	2.50740	0.30000	**4.31428**
	C->Y (FR)	0.01860	0.00100	**0.09763**	0.32940	0.06480	**0.95419**	2.50740	0.30000	**4.46944**
	D->Y (FR)	0.01860	0.00100	**0.07128**	0.32940	0.06480	**0.93948**	2.50740	0.30000	**4.55137**
sg13g2_nor4_2	A->Y (FR)	0.01860	0.00100	**0.11119**	0.32940	0.12960	**0.95750**	2.50740	0.60000	**4.20256**
	B->Y (FR)	0.01860	0.00100	**0.10637**	0.32940	0.12960	**0.96151**	2.50740	0.60000	**4.33662**
	C->Y (FR)	0.01860	0.00100	**0.09148**	0.32940	0.12960	**0.95900**	2.50740	0.60000	**4.48938**
	D->Y (FR)	0.01860	0.00100	**0.06228**	0.32940	0.12960	**0.94177**	2.50740	0.60000	**4.57069**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.02947**	0.32940	0.06480	**0.35568**	2.50740	0.30000	**1.94764**
	B->Y (RF)	0.01860	0.00100	**0.03021**	0.32940	0.06480	**0.35333**	2.50740	0.30000	**1.94678**
	C->Y (RF)	0.01860	0.00100	**0.02921**	0.32940	0.06480	**0.34891**	2.50740	0.30000	**1.94061**
	D->Y (RF)	0.01860	0.00100	**0.02545**	0.32940	0.06480	**0.34431**	2.50740	0.30000	**1.93492**
sg13g2_nor4_2	A->Y (RF)	0.01860	0.00100	**0.02763**	0.32940	0.12960	**0.35594**	2.50740	0.60000	**1.94946**
	B->Y (RF)	0.01860	0.00100	**0.02847**	0.32940	0.12960	**0.35308**	2.50740	0.60000	**1.94618**
	C->Y (RF)	0.01860	0.00100	**0.02755**	0.32940	0.12960	**0.34871**	2.50740	0.60000	**1.93899**
	D->Y (RF)	0.01860	0.00100	**0.02358**	0.32940	0.12960	**0.34293**	2.50740	0.60000	**1.93068**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.00969**	0.32940	0.06480	**0.00962**	2.50740	0.30000	**0.00981**
	B	0.01860	0.00100	**0.00782**	0.32940	0.06480	**0.00772**	2.50740	0.30000	**0.00802**
	C	0.01860	0.00100	**0.00596**	0.32940	0.06480	**0.00596**	2.50740	0.30000	**0.00619**
	D	0.01860	0.00100	**0.00387**	0.32940	0.06480	**0.00385**	2.50740	0.30000	**0.00471**
sg13g2_nor4_2	A	0.01860	0.00100	**0.01964**	0.32940	0.12960	**0.01964**	2.50740	0.60000	**0.02007**
	B	0.01860	0.00100	**0.01596**	0.32940	0.12960	**0.01593**	2.50740	0.60000	**0.01624**
	C	0.01860	0.00100	**0.01227**	0.32940	0.12960	**0.01202**	2.50740	0.60000	**0.01294**
	D	0.01860	0.00100	**0.00790**	0.32940	0.12960	**0.00813**	2.50740	0.60000	**0.00967**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.00316**	0.32940	0.06480	**0.00287**	2.50740	0.30000	**0.00372**
	B	0.01860	0.00100	**0.00297**	0.32940	0.06480	**0.00274**	2.50740	0.30000	**0.00362**
	C	0.01860	0.00100	**0.00257**	0.32940	0.06480	**0.00255**	2.50740	0.30000	**0.00337**
	D	0.01860	0.00100	**0.00208**	0.32940	0.06480	**0.00233**	2.50740	0.30000	**0.00322**
sg13g2_nor4_2	A	0.01860	0.00100	**0.00623**	0.32940	0.12960	**0.00570**	2.50740	0.60000	**0.00768**
	B	0.01860	0.00100	**0.00582**	0.32940	0.12960	**0.00535**	2.50740	0.60000	**0.00724**
	C	0.01860	0.00100	**0.00468**	0.32940	0.12960	**0.00463**	2.50740	0.60000	**0.00635**
	D	0.01860	0.00100	**0.00333**	0.32940	0.12960	**0.00387**	2.50740	0.60000	**0.00574**

O21AI

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_o21ai_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_o21ai_1	0.00337	0.00334	0.00321	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	81.52140	126.64800	169.70000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (FR)	0.01860	0.00100	**0.06685**	0.32940	0.06480	**0.62658**	2.50740	0.30000	**3.04504**
	A2->Y (FR)	0.01860	0.00100	**0.05846**	0.32940	0.06480	**0.64598**	2.50740	0.30000	**3.28784**
	B1->Y (FR)	0.01860	0.00100	**0.02621**	0.32940	0.06480	**0.41115**	2.50740	0.30000	**2.29606**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (RF)	0.01860	0.00100	**0.04632**	0.32940	0.06480	**0.44461**	2.50740	0.30000	**2.26400**
	A2->Y (RF)	0.01860	0.00100	**0.03934**	0.32940	0.06480	**0.43562**	2.50740	0.30000	**2.25106**
	B1->Y (RF)	0.01860	0.00100	**0.03053**	0.32940	0.06480	**0.45067**	2.50740	0.30000	**2.42144**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02621**	0.32940	0.06480	**0.41115**	2.50740	0.30000	**2.29606**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03053**	0.32940	0.06480	**0.45067**	2.50740	0.30000	**2.42144**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00513**	0.32940	0.06480	**0.00491**	2.50740	0.30000	**0.00597**
	A2	0.01860	0.00100	**0.00275**	0.32940	0.06480	**0.00262**	2.50740	0.30000	**0.00402**
	B1	0.01860	0.00100	**0.00173**	0.32940	0.06480	**0.00196**	2.50740	0.30000	**0.00299**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00478**	0.32940	0.06480	**0.00456**	2.50740	0.30000	**0.00540**
	A2	0.01860	0.00100	**0.00453**	0.32940	0.06480	**0.00461**	2.50740	0.30000	**0.00543**
	B1	0.01860	0.00100	**0.00242**	0.32940	0.06480	**0.00257**	2.50740	0.30000	**0.00373**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00173**	0.32940	0.06480	**0.00196**	2.50740	0.30000	**0.00299**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00242**	0.32940	0.06480	**0.00257**	2.50740	0.30000	**0.00373**

OR2x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or2_1	9.07200
sg13g2_or2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_1	0.00247	0.00230	0.30000
sg13g2_or2_2	0.00246	0.00228	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	90.37420	114.89500	145.58000
sg13g2_or2_2	133.87800	168.11900	227.96300

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.05637**	0.32940	0.06480	**0.33662**	2.50740	0.30000	**1.21571**
	B->X (RR)	0.01860	0.00100	**0.05219**	0.32940	0.06480	**0.32237**	2.50740	0.30000	**1.17449**
sg13g2_or2_2	A->X (RR)	0.01860	0.00100	**0.06658**	0.32940	0.12960	**0.37124**	2.50740	0.60000	**1.30641**
	B->X (RR)	0.01860	0.00100	**0.06267**	0.32940	0.12960	**0.35927**	2.50740	0.60000	**1.27516**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.09273**	0.32940	0.06480	**0.33811**	2.50740	0.30000	**1.08136**
	B->X (FF)	0.01860	0.00100	**0.08602**	0.32940	0.06480	**0.33897**	2.50740	0.30000	**1.09223**
sg13g2_or2_2	A->X (FF)	0.01860	0.00100	**0.12057**	0.32940	0.12960	**0.39391**	2.50740	0.60000	**1.19526**
	B->X (FF)	0.01860	0.00100	**0.11423**	0.32940	0.12960	**0.40104**	2.50740	0.60000	**1.22599**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.00609**	0.32940	0.06480	**0.00617**	2.50740	0.30000	**0.01087**
	B	0.01860	0.00100	**0.00591**	0.32940	0.06480	**0.00594**	2.50740	0.30000	**0.01100**
sg13g2_or2_2	A	0.01860	0.00100	**0.00995**	0.32940	0.12960	**0.01023**	2.50740	0.60000	**0.01443**
	B	0.01860	0.00100	**0.00983**	0.32940	0.12960	**0.00996**	2.50740	0.60000	**0.01449**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.00750**	0.32940	0.06480	**0.00768**	2.50740	0.30000	**0.01195**
	B	0.01860	0.00100	**0.00600**	0.32940	0.06480	**0.00637**	2.50740	0.30000	**0.01127**
sg13g2_or2_2	A	0.01860	0.00100	**0.01138**	0.32940	0.12960	**0.01164**	2.50740	0.60000	**0.01511**
	B	0.01860	0.00100	**0.00993**	0.32940	0.12960	**0.01015**	2.50740	0.60000	**0.01477**

OR3x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or3_1	12.70080
sg13g2_or3_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_1	0.00259	0.00253	0.00240	0.30000
sg13g2_or3_2	0.00259	0.00252	0.00240	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	93.66890	121.92300	187.05400
sg13g2_or3_2	137.31300	170.38500	269.49300

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.06456**	0.32940	0.06480	**0.36050**	2.50740	0.30000	**1.28954**
	B->X (RR)	0.01860	0.00100	**0.06194**	0.32940	0.06480	**0.34982**	2.50740	0.30000	**1.25198**
	C->X (RR)	0.01860	0.00100	**0.05640**	0.32940	0.06480	**0.33343**	2.50740	0.30000	**1.20917**
sg13g2_or3_2	A->X (RR)	0.01860	0.00100	**0.07447**	0.32940	0.12960	**0.39208**	2.50740	0.60000	**1.37326**
	B->X (RR)	0.01860	0.00100	**0.07163**	0.32940	0.12960	**0.38272**	2.50740	0.60000	**1.33879**
	C->X (RR)	0.01860	0.00100	**0.06623**	0.32940	0.12960	**0.36892**	2.50740	0.60000	**1.30090**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.13296**	0.32940	0.06480	**0.38475**	2.50740	0.30000	**1.11106**
	B->X (FF)	0.01860	0.00100	**0.12811**	0.32940	0.06480	**0.38830**	2.50740	0.30000	**1.15326**
	C->X (FF)	0.01860	0.00100	**0.11264**	0.32940	0.06480	**0.37684**	2.50740	0.30000	**1.14576**
sg13g2_or3_2	A->X (FF)	0.01860	0.00100	**0.16711**	0.32940	0.12960	**0.44477**	2.50740	0.60000	**1.21711**
	B->X (FF)	0.01860	0.00100	**0.16225**	0.32940	0.12960	**0.45225**	2.50740	0.60000	**1.27469**
	C->X (FF)	0.01860	0.00100	**0.14715**	0.32940	0.12960	**0.44597**	2.50740	0.60000	**1.28081**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.00644**	0.32940	0.06480	**0.00641**	2.50740	0.30000	**0.01106**
	B	0.01860	0.00100	**0.00629**	0.32940	0.06480	**0.00621**	2.50740	0.30000	**0.01090**
	C	0.01860	0.00100	**0.00599**	0.32940	0.06480	**0.00593**	2.50740	0.30000	**0.01114**
sg13g2_or3_2	A	0.01860	0.00100	**0.01032**	0.32940	0.12960	**0.01060**	2.50740	0.60000	**0.01470**
	B	0.01860	0.00100	**0.01015**	0.32940	0.12960	**0.01044**	2.50740	0.60000	**0.01447**
	C	0.01860	0.00100	**0.00990**	0.32940	0.12960	**0.01001**	2.50740	0.60000	**0.01466**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.01061**	0.32940	0.06480	**0.01074**	2.50740	0.30000	**0.01435**
	B	0.01860	0.00100	**0.00897**	0.32940	0.06480	**0.00903**	2.50740	0.30000	**0.01317**
	C	0.01860	0.00100	**0.00717**	0.32940	0.06480	**0.00741**	2.50740	0.30000	**0.01235**
sg13g2_or3_2	A	0.01860	0.00100	**0.01472**	0.32940	0.12960	**0.01479**	2.50740	0.60000	**0.01808**
	B	0.01860	0.00100	**0.01308**	0.32940	0.12960	**0.01310**	2.50740	0.60000	**0.01652**
	C	0.01860	0.00100	**0.01131**	0.32940	0.12960	**0.01147**	2.50740	0.60000	**0.01578**

OR4x

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or4_1	14.51520
sg13g2_or4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_1	0.00259	0.00250	0.00246	0.00238	0.30000
sg13g2_or4_2	0.00257	0.00250	0.00246	0.00238	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	96.02690	124.10900	221.97300
sg13g2_or4_2	139.55600	170.08500	304.38300

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.06755**	0.32940	0.06480	**0.37418**	2.50740	0.30000	**1.32518**
	B->X (RR)	0.01860	0.00100	**0.06677**	0.32940	0.06480	**0.36556**	2.50740	0.30000	**1.29159**
	C->X (RR)	0.01860	0.00100	**0.06321**	0.32940	0.06480	**0.35314**	2.50740	0.30000	**1.25189**
	D->X (RR)	0.01860	0.00100	**0.05748**	0.32940	0.06480	**0.33765**	2.50740	0.30000	**1.20862**
sg13g2_or4_2	A->X (RR)	0.01860	0.00100	**0.07771**	0.32940	0.12960	**0.40363**	2.50740	0.60000	**1.40455**
	B->X (RR)	0.01860	0.00100	**0.07654**	0.32940	0.12960	**0.39646**	2.50740	0.60000	**1.37727**
	C->X (RR)	0.01860	0.00100	**0.07271**	0.32940	0.12960	**0.38575**	2.50740	0.60000	**1.33701**
	D->X (RR)	0.01860	0.00100	**0.06714**	0.32940	0.12960	**0.37189**	2.50740	0.60000	**1.30030**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.18632**	0.32940	0.06480	**0.45415**	2.50740	0.30000	**1.18113**
	B->X (FF)	0.01860	0.00100	**0.18132**	0.32940	0.06480	**0.45422**	2.50740	0.30000	**1.22272**
	C->X (FF)	0.01860	0.00100	**0.16624**	0.32940	0.06480	**0.44377**	2.50740	0.30000	**1.24595**
	D->X (FF)	0.01860	0.00100	**0.14072**	0.32940	0.06480	**0.42291**	2.50740	0.30000	**1.22607**
sg13g2_or4_2	A->X (FF)	0.01860	0.00100	**0.23170**	0.32940	0.12960	**0.52705**	2.50740	0.60000	**1.29360**
	B->X (FF)	0.01860	0.00100	**0.22672**	0.32940	0.12960	**0.52853**	2.50740	0.60000	**1.34800**
	C->X (FF)	0.01860	0.00100	**0.21168**	0.32940	0.12960	**0.52154**	2.50740	0.60000	**1.38520**
	D->X (FF)	0.01860	0.00100	**0.18682**	0.32940	0.12960	**0.50502**	2.50740	0.60000	**1.37731**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.00703**	0.32940	0.06480	**0.00704**	2.50740	0.30000	**0.01109**
	B	0.01860	0.00100	**0.00682**	0.32940	0.06480	**0.00674**	2.50740	0.30000	**0.01084**
	C	0.01860	0.00100	**0.00632**	0.32940	0.06480	**0.00627**	2.50740	0.30000	**0.01051**
	D	0.01860	0.00100	**0.00600**	0.32940	0.06480	**0.00596**	2.50740	0.30000	**0.01069**
sg13g2_or4_2	A	0.01860	0.00100	**0.01092**	0.32940	0.12960	**0.01119**	2.50740	0.60000	**0.01460**
	B	0.01860	0.00100	**0.01071**	0.32940	0.12960	**0.01090**	2.50740	0.60000	**0.01442**
	C	0.01860	0.00100	**0.01020**	0.32940	0.12960	**0.01054**	2.50740	0.60000	**0.01417**
	D	0.01860	0.00100	**0.00991**	0.32940	0.12960	**0.01010**	2.50740	0.60000	**0.01423**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.01262**	0.32940	0.06480	**0.01271**	2.50740	0.30000	**0.01534**
	B	0.01860	0.00100	**0.01103**	0.32940	0.06480	**0.01113**	2.50740	0.30000	**0.01375**
	C	0.01860	0.00100	**0.00938**	0.32940	0.06480	**0.00945**	2.50740	0.30000	**0.01288**
	D	0.01860	0.00100	**0.00755**	0.32940	0.06480	**0.00776**	2.50740	0.30000	**0.01199**
sg13g2_or4_2	A	0.01860	0.00100	**0.01720**	0.32940	0.12960	**0.01663**	2.50740	0.60000	**0.01881**
	B	0.01860	0.00100	**0.01559**	0.32940	0.12960	**0.01498**	2.50740	0.60000	**0.01718**
	C	0.01860	0.00100	**0.01394**	0.32940	0.12960	**0.01335**	2.50740	0.60000	**0.01599**
	D	0.01860	0.00100	**0.01217**	0.32940	0.12960	**0.01169**	2.50740	0.60000	**0.01547**

SDFBBP

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	CLK	**D**	**RESET_B**	**SCD**	**SCE**	**SET_B**	**Q**	**Q_N**
sg13g2_sdfbbp_1	0.00302	0.00198	0.00174	0.00198	0.00354	0.00525	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	637.85700	815.79100	928.22400

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.30309**	0.32940	0.06480	**0.57988**	2.50740	0.30000	**1.45030**
	SET_B->Q (FR)	0.01860	0.00100	**0.12289**	0.32940	0.06480	**0.41736**	2.50740	0.30000	**1.32805**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.24961**	0.32940	0.06480	**0.49450**	2.50740	0.30000	**1.24897**
	RESET_B->Q (FF)	0.01860	0.00100	**0.20686**	0.32940	0.06480	**0.46628**	2.50740	0.30000	**1.25333**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.30309**	0.32940	0.06480	**0.57988**	2.50740	0.30000	**1.45030**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.24961**	0.32940	0.06480	**0.49450**	2.50740	0.30000	**1.24897**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.20494**	0.32940	0.06480	**0.50350**	2.50740	0.30000	**1.39341**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.16127**	0.32940	0.06480	**0.48199**	2.50740	0.30000	**1.40905**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.25162**	0.32940	0.06480	**0.53788**	2.50740	0.30000	**1.28019**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.08160**	0.32940	0.06480	**0.36987**	2.50740	0.30000	**1.18471**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.20494**	0.32940	0.06480	**0.50350**	2.50740	0.30000	**1.39341**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.25162**	0.32940	0.06480	**0.53788**	2.50740	0.30000	**1.28019**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.09583**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.12787**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.26444**	2.50740	2.50740	**-0.34828**
	setup	**CLK (R)**	0.01860	0.01860	**0.12470**	1.26300	1.26300	**0.28603**	2.50740	2.50740	**0.37484**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10514**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.16627**	1.26300	1.26300	**0.23206**	2.50740	2.50740	**0.29515**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.13492**	2.50740	2.50740	**0.16529**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.10794**	2.50740	2.50740	**-0.13577**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.14069**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.11981**	1.26300	1.26300	**-0.32380**	2.50740	2.50740	**-0.43683**
	setup	CLK (R)	0.01860	0.01860	**0.14916**	1.26300	1.26300	**0.34269**	2.50740	2.50740	**0.45749**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.13693**	1.26300	1.26300	**-0.20777**	2.50740	2.50740	**-0.26269**
	setup	CLK (R)	0.01860	0.01860	**0.19806**	1.26300	1.26300	**0.25634**	2.50740	2.50740	**0.33057**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.27793**	2.50740	2.50740	**-0.37484**
	setup	CLK (R)	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.31571**	2.50740	2.50740	**0.41912**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.10759**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.17709**
	setup	CLK (R)	0.01860	0.01860	**0.16627**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.25088**

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**0.08905**	2.50740	2.50740	**0.36894**
	removal	CLK (R)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**0.10524**	2.50740	2.50740	**0.12397**
	hold	RESET_B (R)	0.01860	0.01860	**-0.07825**	1.26300	1.26300	**-0.21047**	2.50740	2.50740	**-0.27744**
	setup	RESET_B (R)	0.01860	0.01860	**0.09781**	1.26300	1.26300	**0.24015**	2.50740	2.50740	**0.31877**

Constraints(ns) for SET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**SET_B ()**	0.01860	0.00000	**0.09262**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01649**	0.32940	0.06480	**0.01690**	2.50740	0.30000	**0.02099**
	SET_B	0.01860	0.00100	**0.03108**	0.32940	0.06480	**0.07720**	2.50740	0.30000	**0.25669**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01626**	0.32940	0.06480	**0.01638**	2.50740	0.30000	**0.02047**
	RESET_B	0.01860	0.00100	**0.03508**	0.32940	0.06480	**0.08124**	2.50740	0.30000	**0.25405**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01649**	0.32940	0.06480	**0.01690**	2.50740	0.30000	**0.02099**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01626**	0.32940	0.06480	**0.01638**	2.50740	0.30000	**0.02047**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01627**	0.32940	0.06480	**0.01652**	2.50740	0.30000	**0.02060**
	RESET_B	0.01860	0.00100	**0.03509**	0.32940	0.06480	**0.08155**	2.50740	0.30000	**0.25477**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01649**	0.32940	0.06480	**0.01674**	2.50740	0.30000	**0.02082**
	SET_B	0.01860	0.00100	**0.03111**	0.32940	0.06480	**0.07680**	2.50740	0.30000	**0.25625**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01627**	0.32940	0.06480	**0.01652**	2.50740	0.30000	**0.02060**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01649**	0.32940	0.06480	**0.01674**	2.50740	0.30000	**0.02082**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01195**	0.32940	**0.01175**	2.50740	**0.01970**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01489**	0.32940	**0.01508**	2.50740	**0.02354**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01187**	0.32940	**0.01173**	2.50740	**0.01960**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01576**	0.32940	**0.01562**	2.50740	**0.02348**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01195**	0.32940	**0.01175**	2.50740	**0.01970**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01099**	0.32940	**0.01085**	2.50740	**0.01872**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01144**	0.32940	**0.01127**	2.50740	**0.01920**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01194**	0.32940	**0.01174**	2.50740	**0.01970**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01129**	0.32940	**0.01132**	2.50740	**0.01944**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01988**	0.32940	**0.01983**	2.50740	**0.02801**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01489**	0.32940	**0.01508**	2.50740	**0.02354**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.02165**	0.32940	**0.02184**	2.50740	**0.03036**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01124**	0.32940	**0.01135**	2.50740	**0.01941**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01115**	0.32940	**0.01117**	2.50740	**0.01929**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01030**	0.32940	**0.01039**	2.50740	**0.01845**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01151**	0.32940	**0.01160**	2.50740	**0.01966**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01122**	0.32940	**0.01107**	2.50740	**0.01429**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01140**	0.32940	**0.01128**	2.50740	**0.01466**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	**(!CLK * RESET_B * !SCE * SET_B)**	0.01860	**0.01122**	0.32940	**0.01107**	2.50740	**0.01429**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00488**	0.32940	**0.00473**	2.50740	**0.00769**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	**(!CLK * RESET_B * !SCE * SET_B)**	0.01860	**0.01140**	0.32940	**0.01128**	2.50740	**0.01466**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00475**	0.32940	**0.00461**	2.50740	**0.00764**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01268**	0.32940	**0.01258**	2.50740	**0.01501**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01548**	0.32940	**0.01528**	2.50740	**0.01781**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01268**	0.32940	**0.01258**	2.50740	**0.01501**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00638**	0.32940	**0.00625**	2.50740	**0.00832**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01548**	0.32940	**0.01528**	2.50740	**0.01781**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00728**	0.32940	**0.00721**	2.50740	**0.00936**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01320**	0.32940	**0.01328**	2.50740	**0.02079**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01479**	0.32940	**0.01491**	2.50740	**0.01891**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01451**	0.32940	**0.01458**	2.50740	**0.01863**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01951**	0.32940	**0.01905**	2.50740	**0.02313**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01320**	0.32940	**0.01328**	2.50740	**0.02079**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00675**	0.32940	**0.00679**	2.50740	**0.01396**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01479**	0.32940	**0.01491**	2.50740	**0.01891**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01876**	0.32940	**0.02417**	2.50740	**0.02833**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00745**	0.32940	**0.02514**	2.50740	**0.03322**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00703**	0.32940	**0.00708**	2.50740	**0.01380**

SDFRBPQx

sg13g2_stdcell_typ_1p20V_25C Cell Library:
Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfrbpq_1	63.50400
sg13g2_sdfrbpq_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CLK	D	RESET_B	SCD	SCE	Q
sg13g2_sdfrbpq_1	0.00294	0.00277	0.00510	0.00288	0.00484	0.30000
sg13g2_sdfrbpq_2	0.00294	0.00277	0.00511	0.00288	0.00484	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbpq_1	624.49100	720.77900	824.47000
sg13g2_sdfrbpq_2	706.90100	787.18400	906.87900

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.17228**	0.32940	0.06480	**0.46407**	2.50740	0.30000	**1.32713**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.19728**	0.32940	0.12960	**0.50543**	2.50740	0.60000	**1.37115**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.18201**	0.32940	0.06480	**0.44157**	2.50740	0.30000	**1.16765**
	RESET_B->Q (FF)	0.01860	0.00100	**0.09751**	0.32940	0.06480	**0.40016**	2.50740	0.30000	**1.28522**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.20798**	0.32940	0.12960	**0.48478**	2.50740	0.60000	**1.20959**
	RESET_B->Q (FF)	0.01860	0.00100	**0.12280**	0.32940	0.12960	**0.45358**	2.50740	0.60000	**1.40894**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.17223**	0.32940	0.06480	**0.46407**	2.50740	0.30000	**1.32713**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.17228**	0.32940	0.06480	**0.46407**	2.50740	0.30000	**1.32713**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.19728**	0.32940	0.12960	**0.50543**	2.50740	0.60000	**1.37115**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.19724**	0.32940	0.12960	**0.50543**	2.50740	0.60000	**1.37115**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.18192**	0.32940	0.06480	**0.44157**	2.50740	0.30000	**1.16765**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.18201**	0.32940	0.06480	**0.44157**	2.50740	0.30000	**1.16765**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.20800**	0.32940	0.12960	**0.48478**	2.50740	0.60000	**1.20959**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.20798**	0.32940	0.12960	**0.48478**	2.50740	0.60000	**1.20959**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.09262**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.13107**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.12787**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14671**	1.26300	1.26300	**-0.27254**	2.50740	2.50740	**-0.31286**
	setup	**CLK (R)**	0.01860	0.01860	**0.19073**	1.26300	1.26300	**0.29952**	2.50740	2.50740	**0.34238**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14671**	1.26300	1.26300	**-0.27254**	2.50740	2.50740	**-0.31286**
	setup	**CLK (R)**	0.01860	0.01860	**0.19073**	1.26300	1.26300	**0.29952**	2.50740	2.50740	**0.34238**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14916**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.21841**
	setup	**CLK (R)**	0.01860	0.01860	**0.21273**	1.26300	1.26300	**0.23746**	2.50740	2.50740	**0.26269**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14916**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.21841**
	setup	**CLK (R)**	0.01860	0.01860	**0.21273**	1.26300	1.26300	**0.23746**	2.50740	2.50740	**0.26269**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.30222**	2.50740	2.50740	**0.54604**
	removal	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.25634**	2.50740	2.50740	**-0.36009**
sg13g2_sdfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.11737**	1.26300	1.26300	**0.32110**	2.50740	2.50740	**0.76740**
	removal	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.25634**	2.50740	2.50740	**-0.36009**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.11505**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.13428**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14671**	1.26300	1.26300	**-0.27254**	2.50740	2.50740	**-0.31286**
	setup	**CLK (R)**	0.01860	0.01860	**0.19073**	1.26300	1.26300	**0.29952**	2.50740	2.50740	**0.34238**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14671**	1.26300	1.26300	**-0.27254**	2.50740	2.50740	**-0.31286**
	setup	**CLK (R)**	0.01860	0.01860	**0.19073**	1.26300	1.26300	**0.29952**	2.50740	2.50740	**0.34238**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14671**	1.26300	1.26300	**-0.19158**	2.50740	2.50740	**-0.21546**
	setup	**CLK (R)**	0.01860	0.01860	**0.21273**	1.26300	1.26300	**0.24015**	2.50740	2.50740	**0.26564**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14916**	1.26300	1.26300	**-0.19158**	2.50740	2.50740	**-0.21546**
	setup	**CLK (R)**	0.01860	0.01860	**0.21273**	1.26300	1.26300	**0.23746**	2.50740	2.50740	**0.26564**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14916**	1.26300	1.26300	**-0.27254**	2.50740	2.50740	**-0.32172**
	setup	**CLK (R)**	0.01860	0.01860	**0.19562**	1.26300	1.26300	**0.30222**	2.50740	2.50740	**0.35123**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14916**	1.26300	1.26300	**-0.27254**	2.50740	2.50740	**-0.32172**
	setup	**CLK (R)**	0.01860	0.01860	**0.19317**	1.26300	1.26300	**0.30222**	2.50740	2.50740	**0.35123**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.15405**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.19185**
	setup	**CLK (R)**	0.01860	0.01860	**0.22251**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.24203**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.15649**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.19185**
	setup	**CLK (R)**	0.01860	0.01860	**0.22007**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.24203**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.02072**	0.32940	0.06480	**0.02084**	2.50740	0.30000	**0.02939**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.02493**	0.32940	0.12960	**0.02518**	2.50740	0.60000	**0.03387**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.02186**	0.32940	0.06480	**0.02247**	2.50740	0.30000	**0.03109**
	RESET_B	0.01860	0.00100	**0.02021**	0.32940	0.06480	**0.01977**	2.50740	0.30000	**0.02597**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.02575**	0.32940	0.12960	**0.02650**	2.50740	0.60000	**0.03543**
	RESET_B	0.01860	0.00100	**0.02401**	0.32940	0.12960	**0.02368**	2.50740	0.60000	**0.02953**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.02072**	0.32940	0.06480	**0.02084**	2.50740	0.30000	**0.02939**
	CLK	!SCE	0.01860	0.00100	**0.00991**	0.32940	0.06480	**0.01013**	2.50740	0.30000	**0.01063**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.02493**	0.32940	0.12960	**0.02518**	2.50740	0.60000	**0.03387**
	CLK	!SCE	0.01860	0.00100	**0.01407**	0.32940	0.12960	**0.01447**	2.50740	0.60000	**0.01511**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.02186**	0.32940	0.06480	**0.02247**	2.50740	0.30000	**0.03109**
	CLK	!SCE	0.01860	0.00100	**0.01104**	0.32940	0.06480	**0.01176**	2.50740	0.30000	**0.01233**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.02575**	0.32940	0.12960	**0.02650**	2.50740	0.60000	**0.03543**
	CLK	!SCE	0.01860	0.00100	**0.01490**	0.32940	0.12960	**0.01579**	2.50740	0.60000	**0.01666**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01083**	0.32940	**0.01071**	2.50740	**0.01877**
sg13g2_sdfrbpq_2	0.01860	**0.01084**	0.32940	**0.01071**	2.50740	**0.01877**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01103**	0.32940	**0.01110**	2.50740	**0.01935**
sg13g2_sdfrbpq_2	0.01860	**0.01102**	0.32940	**0.01111**	2.50740	**0.01935**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.01107**	0.32940	**0.01097**	2.50740	**0.01903**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01084**	0.32940	**0.01071**	2.50740	**0.01876**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01107**	0.32940	**0.01097**	2.50740	**0.01903**
	(!RESET_B * !Q)	0.01860	**0.01065**	0.32940	**0.01057**	2.50740	**0.01857**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01083**	0.32940	**0.01071**	2.50740	**0.01877**
sg13g2_sdfrbpq_2	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.01107**	0.32940	**0.01098**	2.50740	**0.01903**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01084**	0.32940	**0.01071**	2.50740	**0.01877**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01107**	0.32940	**0.01098**	2.50740	**0.01903**
	(!RESET_B * !Q)	0.01860	**0.01081**	0.32940	**0.01070**	2.50740	**0.01873**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01083**	0.32940	**0.01071**	2.50740	**0.01877**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(RESET_B * SCD * SCE * Q)	0.01860	**0.01103**	0.32940	**0.01110**	2.50740	**0.01935**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.02067**	0.32940	**0.02067**	2.50740	**0.02914**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.01930**	0.32940	**0.01952**	2.50740	**0.02821**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01068**	0.32940	**0.01074**	2.50740	**0.01897**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01103**	0.32940	**0.01110**	2.50740	**0.01935**
	(!RESET_B * !Q)	0.01860	**0.00984**	0.32940	**0.00990**	2.50740	**0.01812**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01067**	0.32940	**0.01074**	2.50740	**0.01897**
sg13g2_sdfrbpq_2	(RESET_B * SCD * SCE * Q)	0.01860	**0.01102**	0.32940	**0.01111**	2.50740	**0.01935**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.02067**	0.32940	**0.02067**	2.50740	**0.02914**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.01930**	0.32940	**0.01952**	2.50740	**0.02821**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01067**	0.32940	**0.01074**	2.50740	**0.01897**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01102**	0.32940	**0.01111**	2.50740	**0.01935**
	(!RESET_B * !Q)	0.01860	**0.01000**	0.32940	**0.01006**	2.50740	**0.01828**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01067**	0.32940	**0.01074**	2.50740	**0.01897**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02187**	0.32940	**0.02167**	2.50740	**0.02820**
sg13g2_sdfrbpq_2	0.01860	**0.02224**	0.32940	**0.02203**	2.50740	**0.02857**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01896**	0.32940	**0.01905**	2.50740	**0.02654**
sg13g2_sdfrbpq_2	0.01860	**0.01897**	0.32940	**0.01905**	2.50740	**0.02654**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02187**	0.32940	**0.02167**	2.50740	**0.02820**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02224**	0.32940	**0.02203**	2.50740	**0.02857**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.01896**	0.32940	**0.01905**	2.50740	**0.02654**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.01897**	0.32940	**0.01905**	2.50740	**0.02654**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02202**	0.32940	**0.02184**	2.50740	**0.02833**
sg13g2_sdfrbpq_2	0.01860	**0.02239**	0.32940	**0.02222**	2.50740	**0.02871**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01846**	0.32940	**0.01853**	2.50740	**0.02608**
sg13g2_sdfrbpq_2	0.01860	**0.01886**	0.32940	**0.01892**	2.50740	**0.02647**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.02202**	0.32940	**0.02184**	2.50740	**0.02833**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.02239**	0.32940	**0.02222**	2.50740	**0.02871**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.01846**	0.32940	**0.01853**	2.50740	**0.02608**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.01886**	0.32940	**0.01892**	2.50740	**0.02647**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02571**	0.32940	**0.02561**	2.50740	**0.03641**
sg13g2_sdfrbpq_2	0.01860	**0.02571**	0.32940	**0.02559**	2.50740	**0.03640**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02495**	0.32940	**0.04174**	2.50740	**0.05325**
sg13g2_sdfrbpq_2	0.01860	**0.02511**	0.32940	**0.04188**	2.50740	**0.05340**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.02317**	0.32940	**0.02314**	2.50740	**0.02863**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02571**	0.32940	**0.02561**	2.50740	**0.03641**
sg13g2_sdfrbpq_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.02333**	0.32940	**0.02330**	2.50740	**0.02879**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02571**	0.32940	**0.02559**	2.50740	**0.03640**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.02596**	0.32940	**0.02603**	2.50740	**0.03165**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02495**	0.32940	**0.04174**	2.50740	**0.05325**
sg13g2_sdfrbpq_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.02594**	0.32940	**0.02602**	2.50740	**0.03163**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02511**	0.32940	**0.04188**	2.50740	**0.05340**

SDFRBPx

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfrbp_1	68.94720
sg13g2_sdfrbp_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CLK	D	RESET_B	SCD	SCE	Q	Q_N
sg13g2_sdfrbp_1	0.00294	0.00277	0.00511	0.00289	0.00484	0.30000	0.30000
sg13g2_sdfrbp_2	0.00294	0.00277	0.00511	0.00288	0.00484	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbp_1	705.77900	825.02900	914.43300
sg13g2_sdfrbp_2	831.72500	950.94200	1040.34000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.19037**	0.32940	0.06480	**0.46683**	2.50740	0.30000	**1.36442**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.24357**	0.32940	0.12960	**0.51310**	2.50740	0.60000	**1.41377**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.17253**	0.32940	0.06480	**0.41565**	2.50740	0.30000	**1.14381**
	RESET_B->Q (FF)	0.01860	0.00100	**0.24256**	0.32940	0.06480	**0.52281**	2.50740	0.30000	**1.42622**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.20955**	0.32940	0.12960	**0.45365**	2.50740	0.60000	**1.18684**
	RESET_B->Q (FF)	0.01860	0.00100	**0.28082**	0.32940	0.12960	**0.56181**	2.50740	0.60000	**1.46905**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.19037**	0.32940	0.06480	**0.46683**	2.50740	0.30000	**1.36442**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.24357**	0.32940	0.12960	**0.51310**	2.50740	0.60000	**1.41377**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.17253**	0.32940	0.06480	**0.41565**	2.50740	0.30000	**1.14381**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.20955**	0.32940	0.12960	**0.45365**	2.50740	0.60000	**1.18684**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.13246**	0.32940	0.06480	**0.43172**	2.50740	0.30000	**1.29213**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.20300**	0.32940	0.06480	**0.53706**	2.50740	0.30000	**1.57284**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	0.01860	0.00100	**0.13912**	0.32940	0.12960	**0.45004**	2.50740	0.60000	**1.31279**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.21191**	0.32940	0.12960	**0.55688**	2.50740	0.60000	**1.59507**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.14234**	0.32940	0.06480	**0.43459**	2.50740	0.30000	**1.20352**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	0.01860	0.00100	**0.15808**	0.32940	0.12960	**0.46784**	2.50740	0.60000	**1.24006**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.13246**	0.32940	0.06480	**0.43172**	2.50740	0.30000	**1.29213**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.13912**	0.32940	0.12960	**0.45004**	2.50740	0.60000	**1.31279**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.14234**	0.32940	0.06480	**0.43459**	2.50740	0.30000	**1.20352**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.15808**	0.32940	0.12960	**0.46784**	2.50740	0.60000	**1.24006**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.10864**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.13748**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.13938**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.30696**
	setup	**CLK (R)**	0.01860	0.01860	**0.19317**	1.26300	1.26300	**0.29682**	2.50740	2.50740	**0.33352**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.13693**	1.26300	1.26300	**-0.26444**	2.50740	2.50740	**-0.30696**
	setup	**CLK (R)**	0.01860	0.01860	**0.19317**	1.26300	1.26300	**0.29952**	2.50740	2.50740	**0.33352**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.13938**	1.26300	1.26300	**-0.19968**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.22007**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.26564**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.13938**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.22007**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.26859**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.27254**	2.50740	2.50740	**0.37484**
	removal	**CLK (R)**	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.25904**	2.50740	2.50740	**-0.36599**
sg13g2_sdfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.27254**	2.50740	2.50740	**0.37780**
	removal	**CLK (R)**	0.01860	0.01860	**-0.10514**	1.26300	1.26300	**-0.26174**	2.50740	2.50740	**-0.36599**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.11185**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.11505**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.13938**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.30696**
	setup	**CLK (R)**	0.01860	0.01860	**0.19317**	1.26300	1.26300	**0.29682**	2.50740	2.50740	**0.33648**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.13693**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.30696**
	setup	**CLK (R)**	0.01860	0.01860	**0.19317**	1.26300	1.26300	**0.29952**	2.50740	2.50740	**0.33648**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.13938**	1.26300	1.26300	**-0.19428**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.22007**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.26564**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.13938**	1.26300	1.26300	**-0.19158**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.22007**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.26859**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14182**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.31582**
	setup	**CLK (R)**	0.01860	0.01860	**0.19562**	1.26300	1.26300	**0.29952**	2.50740	2.50740	**0.34533**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.13938**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.31582**
	setup	**CLK (R)**	0.01860	0.01860	**0.19562**	1.26300	1.26300	**0.29952**	2.50740	2.50740	**0.34533**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14671**	1.26300	1.26300	**-0.18349**	2.50740	2.50740	**-0.20070**
	setup	**CLK (R)**	0.01860	0.01860	**0.22740**	1.26300	1.26300	**0.22936**	2.50740	2.50740	**0.24498**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.14671**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.20070**
	setup	**CLK (R)**	0.01860	0.01860	**0.22740**	1.26300	1.26300	**0.23206**	2.50740	2.50740	**0.24793**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.02936**	0.32940	0.06480	**0.07590**	2.50740	0.30000	**0.25347**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.03722**	0.32940	0.12960	**0.13086**	2.50740	0.60000	**0.47792**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.03045**	0.32940	0.06480	**0.07708**	2.50740	0.30000	**0.25507**
	RESET_B	0.01860	0.00100	**0.03127**	0.32940	0.06480	**0.07269**	2.50740	0.30000	**0.23364**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.03768**	0.32940	0.12960	**0.13160**	2.50740	0.60000	**0.47914**
	RESET_B	0.01860	0.00100	**0.03853**	0.32940	0.12960	**0.12256**	2.50740	0.60000	**0.43680**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.02936**	0.32940	0.06480	**0.07590**	2.50740	0.30000	**0.25347**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.03722**	0.32940	0.12960	**0.13086**	2.50740	0.60000	**0.47792**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.03045**	0.32940	0.06480	**0.07708**	2.50740	0.30000	**0.25507**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.03768**	0.32940	0.12960	**0.13160**	2.50740	0.60000	**0.47914**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.03046**	0.32940	0.06480	**0.07737**	2.50740	0.30000	**0.25523**
	RESET_B	0.01860	0.00100	**0.03128**	0.32940	0.06480	**0.07304**	2.50740	0.30000	**0.23420**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.03773**	0.32940	0.12960	**0.13218**	2.50740	0.60000	**0.47983**
	RESET_B	0.01860	0.00100	**0.03857**	0.32940	0.12960	**0.12328**	2.50740	0.60000	**0.43782**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.02937**	0.32940	0.06480	**0.07561**	2.50740	0.30000	**0.25313**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.03722**	0.32940	0.12960	**0.13030**	2.50740	0.60000	**0.47736**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.03046**	0.32940	0.06480	**0.07737**	2.50740	0.30000	**0.25523**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.03773**	0.32940	0.12960	**0.13218**	2.50740	0.60000	**0.47983**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.02937**	0.32940	0.06480	**0.07561**	2.50740	0.30000	**0.25313**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.03722**	0.32940	0.12960	**0.13030**	2.50740	0.60000	**0.47736**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01086**	0.32940	**0.01072**	2.50740	**0.01875**
sg13g2_sdfrbp_2	0.01860	**0.01086**	0.32940	**0.01073**	2.50740	**0.01875**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01084**	0.32940	**0.01088**	2.50740	**0.01910**
sg13g2_sdfrbp_2	0.01860	**0.01085**	0.32940	**0.01088**	2.50740	**0.01910**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.01111**	0.32940	**0.01097**	2.50740	**0.01903**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01086**	0.32940	**0.01072**	2.50740	**0.01875**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01112**	0.32940	**0.01097**	2.50740	**0.01903**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01044**	0.32940	**0.01032**	2.50740	**0.01833**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01085**	0.32940	**0.01072**	2.50740	**0.01875**
sg13g2_sdfrbp_2	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.01112**	0.32940	**0.01098**	2.50740	**0.01903**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01086**	0.32940	**0.01073**	2.50740	**0.01875**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01113**	0.32940	**0.01098**	2.50740	**0.01903**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01045**	0.32940	**0.01033**	2.50740	**0.01832**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01086**	0.32940	**0.01073**	2.50740	**0.01875**

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

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

sg13g2_sdfrbp_1	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.01064**	0.32940	**0.01068**	2.50740	**0.01890**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.02079**	0.32940	**0.02077**	2.50740	**0.02924**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.01892**	0.32940	**0.01913**	2.50740	**0.02781**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01084**	0.32940	**0.01088**	2.50740	**0.01910**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01064**	0.32940	**0.01068**	2.50740	**0.01890**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00964**	0.32940	**0.00967**	2.50740	**0.01789**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01083**	0.32940	**0.01088**	2.50740	**0.01910**
sg13g2_sdfrbp_2	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.01065**	0.32940	**0.01068**	2.50740	**0.01890**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.02080**	0.32940	**0.02076**	2.50740	**0.02923**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.01893**	0.32940	**0.01914**	2.50740	**0.02781**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01084**	0.32940	**0.01088**	2.50740	**0.01910**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01065**	0.32940	**0.01068**	2.50740	**0.01890**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00965**	0.32940	**0.00967**	2.50740	**0.01790**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01085**	0.32940	**0.01088**	2.50740	**0.01910**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02103**	0.32940	**0.02081**	2.50740	**0.02736**
sg13g2_sdfrbp_2	0.01860	**0.02110**	0.32940	**0.02090**	2.50740	**0.02743**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02028**	0.32940	**0.02036**	2.50740	**0.02785**
sg13g2_sdfrbp_2	0.01860	**0.02030**	0.32940	**0.02036**	2.50740	**0.02785**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02103**	0.32940	**0.02081**	2.50740	**0.02736**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02110**	0.32940	**0.02090**	2.50740	**0.02743**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02028**	0.32940	**0.02036**	2.50740	**0.02785**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02030**	0.32940	**0.02036**	2.50740	**0.02785**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02119**	0.32940	**0.02100**	2.50740	**0.02749**
sg13g2_sdfrbp_2	0.01860	**0.02126**	0.32940	**0.02107**	2.50740	**0.02757**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01770**	0.32940	**0.01778**	2.50740	**0.02533**
sg13g2_sdfrbp_2	0.01860	**0.01772**	0.32940	**0.01779**	2.50740	**0.02533**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.02119**	0.32940	**0.02100**	2.50740	**0.02749**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.02126**	0.32940	**0.02107**	2.50740	**0.02757**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.01770**	0.32940	**0.01778**	2.50740	**0.02533**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.01772**	0.32940	**0.01779**	2.50740	**0.02533**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02572**	0.32940	**0.02561**	2.50740	**0.03641**
sg13g2_sdfrbp_2	0.01860	**0.02570**	0.32940	**0.02559**	2.50740	**0.03640**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02473**	0.32940	**0.04150**	2.50740	**0.05302**
sg13g2_sdfrbp_2	0.01860	**0.02472**	0.32940	**0.04149**	2.50740	**0.05301**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.02294**	0.32940	**0.02291**	2.50740	**0.02840**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02572**	0.32940	**0.02561**	2.50740	**0.03641**
sg13g2_sdfrbp_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.02295**	0.32940	**0.02292**	2.50740	**0.02840**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02570**	0.32940	**0.02559**	2.50740	**0.03640**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.02595**	0.32940	**0.02603**	2.50740	**0.03165**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02473**	0.32940	**0.04150**	2.50740	**0.05302**
sg13g2_sdfrbp_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.02594**	0.32940	**0.02602**	2.50740	**0.03163**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02472**	0.32940	**0.04149**	2.50740	**0.05301**

SIGHOLD

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.01819	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	138.90300	161.57000	184.23800

Passive Power Information

Passive power(pJ) for SH rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.00526**	0.32940	**0.01088**	2.50740	**0.05193**

Passive power(pJ) for SH falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.00425**	0.32940	**0.00763**	2.50740	**0.05273**

SLGCP

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_slgcp_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	GATE	SCE	GCLK
sg13g2_slgcp_1	0.00498	0.00193	0.00233	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	355.43900	415.61800	460.31000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.07573**	0.32940	0.06480	**0.34724**	2.50740	0.30000	**1.21453**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.06113**	0.32940	0.06480	**0.30923**	2.50740	0.30000	**1.04620**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.23041**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.10223**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04138**	1.26300	1.26300	**-0.19121**	2.50740	2.50740	**-0.26034**
	setup	**CLK (R)**	0.01860	0.01860	**0.06423**	1.26300	1.26300	**0.26165**	2.50740	2.50740	**0.35982**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06774**	1.26300	1.26300	**-0.17225**	2.50740	2.50740	**-0.23813**
	setup	**CLK (R)**	0.01860	0.01860	**0.11758**	1.26300	1.26300	**0.21969**	2.50740	2.50740	**0.29447**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04379**	1.26300	1.26300	**-0.21888**	2.50740	2.50740	**-0.29952**
	setup	**CLK (R)**	0.01860	0.01860	**0.06794**	1.26300	1.26300	**0.28681**	2.50740	2.50740	**0.39723**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07419**	1.26300	1.26300	**-0.15327**	2.50740	2.50740	**-0.20770**
	setup	**CLK (R)**	0.01860	0.01860	**0.12615**	1.26300	1.26300	**0.19597**	2.50740	2.50740	**0.26232**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.00876**	0.32940	0.06480	**0.00872**	2.50740	0.30000	**0.01319**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.00558**	0.32940	0.06480	**0.00607**	2.50740	0.30000	**0.01168**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.00761**	0.32940	**0.00765**	2.50740	**0.01463**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.00752**	0.32940	**0.00759**	2.50740	**0.01486**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01873**	0.32940	**0.01933**	2.50740	**0.02439**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01589**	0.32940	**0.03019**	2.50740	**0.03571**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.01873**	0.32940	**0.01933**	2.50740	**0.02439**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.01589**	0.32940	**0.03019**	2.50740	**0.03571**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01088**	0.32940	**0.01084**	2.50740	**0.01582**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01615**	0.32940	**0.02949**	2.50740	**0.03384**

TIEHI

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	58.06610	58.06610	58.06610

TIELO

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	57.84800	57.84800	57.84800

XNOR2

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00562	0.00509	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	120.28000	194.76700	225.81200

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-R)	0.01860	0.00100	**0.05440**	0.32940	0.06480	**0.54428**	2.50740	0.30000	**2.70026**
	B->Y (-R)	0.01860	0.00100	**0.04714**	0.32940	0.06480	**0.56315**	2.50740	0.30000	**2.91259**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-F)	0.01860	0.00100	**0.04844**	0.32940	0.06480	**0.45548**	2.50740	0.30000	**2.34417**
	B->Y (-F)	0.01860	0.00100	**0.04172**	0.32940	0.06480	**0.44697**	2.50740	0.30000	**2.33010**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (RR)	B	0.01860	0.00100	**0.07292**	0.32940	0.06480	**0.34339**	2.50740	0.30000	**1.21422**
	A->Y (FR)	!B	0.01860	0.00100	**0.05440**	0.32940	0.06480	**0.54428**	2.50740	0.30000	**2.70026**
	B->Y (RR)	A	0.01860	0.00100	**0.06807**	0.32940	0.06480	**0.33782**	2.50740	0.30000	**1.20327**
	B->Y (FR)	!A	0.01860	0.00100	**0.04714**	0.32940	0.06480	**0.56315**	2.50740	0.30000	**2.91259**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (FF)	B	0.01860	0.00100	**0.07119**	0.32940	0.06480	**0.43271**	2.50740	0.30000	**1.59615**
	A->Y (RF)	!B	0.01860	0.00100	**0.04844**	0.32940	0.06480	**0.45548**	2.50740	0.30000	**2.34417**
	B->Y (FF)	A	0.01860	0.00100	**0.07194**	0.32940	0.06480	**0.42183**	2.50740	0.30000	**1.57210**
	B->Y (RF)	!A	0.01860	0.00100	**0.04172**	0.32940	0.06480	**0.44697**	2.50740	0.30000	**2.33010**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00781**	0.32940	0.06480	**0.00777**	2.50740	0.30000	**0.01265**
	B	0.01860	0.00100	**0.00795**	0.32940	0.06480	**0.00780**	2.50740	0.30000	**0.01370**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00705**	0.32940	0.06480	**0.00744**	2.50740	0.30000	**0.01292**
	B	0.01860	0.00100	**0.00749**	0.32940	0.06480	**0.00664**	2.50740	0.30000	**0.01231**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.00781**	0.32940	0.06480	**0.00777**	2.50740	0.30000	**0.01265**
	A	!B	0.01860	0.00100	**0.00496**	0.32940	0.06480	**0.00470**	2.50740	0.30000	**0.00533**
	B	A	0.01860	0.00100	**0.00795**	0.32940	0.06480	**0.00780**	2.50740	0.30000	**0.01370**
	B	!A	0.01860	0.00100	**0.00329**	0.32940	0.06480	**0.00324**	2.50740	0.30000	**0.00414**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.00705**	0.32940	0.06480	**0.00744**	2.50740	0.30000	**0.01292**
	A	!B	0.01860	0.00100	**0.00494**	0.32940	0.06480	**0.00474**	2.50740	0.30000	**0.00522**
	B	A	0.01860	0.00100	**0.00749**	0.32940	0.06480	**0.00664**	2.50740	0.30000	**0.01231**
	B	!A	0.01860	0.00100	**0.00405**	0.32940	0.06480	**0.00411**	2.50740	0.30000	**0.00461**

XOR2

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xor2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00575	0.00514	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	174.79400	184.81700	194.60600

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-R)	0.01860	0.00100	**0.05873**	0.32940	0.06480	**0.55039**	2.50740	0.30000	**2.71033**
	B->X (-R)	0.01860	0.00100	**0.05038**	0.32940	0.06480	**0.54091**	2.50740	0.30000	**2.69711**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-F)	0.01860	0.00100	**0.04425**	0.32940	0.06480	**0.45060**	2.50740	0.30000	**2.33339**
	B->X (-F)	0.01860	0.00100	**0.03904**	0.32940	0.06480	**0.46730**	2.50740	0.30000	**2.48411**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (RR)	!B	0.01860	0.00100	**0.07184**	0.32940	0.06480	**0.54144**	2.50740	0.30000	**2.13028**
	A->X (FR)	B	0.01860	0.00100	**0.05873**	0.32940	0.06480	**0.55039**	2.50740	0.30000	**2.71033**
	B->X (RR)	!A	0.01860	0.00100	**0.07486**	0.32940	0.06480	**0.52807**	2.50740	0.30000	**2.08997**
	B->X (FR)	A	0.01860	0.00100	**0.05038**	0.32940	0.06480	**0.54091**	2.50740	0.30000	**2.69711**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (FF)	!B	0.01860	0.00100	**0.08766**	0.32940	0.06480	**0.32597**	2.50740	0.30000	**1.03849**
	A->X (RF)	B	0.01860	0.00100	**0.04425**	0.32940	0.06480	**0.45060**	2.50740	0.30000	**2.33339**
	B->X (FF)	!A	0.01860	0.00100	**0.08096**	0.32940	0.06480	**0.32438**	2.50740	0.30000	**1.04564**
	B->X (RF)	A	0.01860	0.00100	**0.03904**	0.32940	0.06480	**0.46730**	2.50740	0.30000	**2.48411**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.00692**	0.32940	0.06480	**0.00725**	2.50740	0.30000	**0.01195**
	B	0.01860	0.00100	**0.00742**	0.32940	0.06480	**0.00655**	2.50740	0.30000	**0.01165**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.00845**	0.32940	0.06480	**0.00861**	2.50740	0.30000	**0.01341**
	B	0.01860	0.00100	**0.00777**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.01367**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.00523**	0.32940	0.06480	**0.00506**	2.50740	0.30000	**0.00556**
	A	!B	0.01860	0.00100	**0.00692**	0.32940	0.06480	**0.00725**	2.50740	0.30000	**0.01195**
	B	A	0.01860	0.00100	**0.00416**	0.32940	0.06480	**0.00412**	2.50740	0.30000	**0.00461**
	B	!A	0.01860	0.00100	**0.00742**	0.32940	0.06480	**0.00655**	2.50740	0.30000	**0.01165**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.00490**	0.32940	0.06480	**0.00455**	2.50740	0.30000	**0.00507**
	A	!B	0.01860	0.00100	**0.00845**	0.32940	0.06480	**0.00861**	2.50740	0.30000	**0.01341**
	B	A	0.01860	0.00100	**0.00397**	0.32940	0.06480	**0.00387**	2.50740	0.30000	**0.00454**
	B	!A	0.01860	0.00100	**0.00777**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.01367**