sg13g2_stdcell_slow_1p35V_125C Library

Cell Groups
A21OIx
A221OI
A22OI
AND2x
AND3x
AND4x
AO21x
BTLx
BUx
DECAPx
DFFRRx
DLHQ
DLHRQ
DLHR
DLLRQ
DLLR
DLY1
DLY2
DLY4
EINVINx
GCLK
INx
ITL

KEEPSTATE
MUX2x
MUX4
NAND2B1
NAND2B2
NAND2x
NAND3B1
NAND3
NAND4
NOR2Bx
NOR2x
NOR3x
NOR4x
NP_ANT
O21AI
OR2x
OR3x
OR4x
SDFRRS
SGCLK
TIE0
TIE1
XNOR2_1
XOR2_1

A21OIx

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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_2	14.51520
sg13g2_a21oi_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_a21oi_2	0.00538	0.00588	0.00527	0.60000
sg13g2_a21oi_1	0.00281	0.00293	0.00269	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_2	570.11100	1407.60000	3188.44000
sg13g2_a21oi_1	285.05500	703.80500	1594.23000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	A1->Y (FR)	0.01860	0.00100	**0.04250**	0.32940	0.12960	**0.53010**	2.50740	0.60000	**2.61197**
	A2->Y (FR)	0.01860	0.00100	**0.05142**	0.32940	0.12960	**0.53792**	2.50740	0.60000	**2.61974**
	B1->Y (FR)	0.01860	0.00100	**0.04031**	0.32940	0.12960	**0.54819**	2.50740	0.60000	**2.81163**
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.04701**	0.32940	0.06480	**0.52965**	2.50740	0.30000	**2.60776**
	A2->Y (FR)	0.01860	0.00100	**0.05560**	0.32940	0.06480	**0.53862**	2.50740	0.30000	**2.61940**
	B1->Y (FR)	0.01860	0.00100	**0.04456**	0.32940	0.06480	**0.54888**	2.50740	0.30000	**2.81344**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	A1->Y (RF)	0.01860	0.00100	**0.03523**	0.32940	0.12960	**0.44194**	2.50740	0.60000	**2.34637**
	A2->Y (RF)	0.01860	0.00100	**0.04052**	0.32940	0.12960	**0.43291**	2.50740	0.60000	**2.21164**
	B1->Y (RF)	0.01860	0.00100	**0.01991**	0.32940	0.12960	**0.32720**	2.50740	0.60000	**1.86131**
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.03886**	0.32940	0.06480	**0.44255**	2.50740	0.30000	**2.34554**
	A2->Y (RF)	0.01860	0.00100	**0.04386**	0.32940	0.06480	**0.43322**	2.50740	0.30000	**2.21433**
	B1->Y (RF)	0.01860	0.00100	**0.02192**	0.32940	0.06480	**0.32855**	2.50740	0.30000	**1.86326**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.04031**	0.32940	0.12960	**0.54819**	2.50740	0.60000	**2.81163**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03023**	0.32940	0.12960	**0.53855**	2.50740	0.60000	**2.80956**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.02532**	0.32940	0.12960	**0.44222**	2.50740	0.60000	**2.40915**
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.04456**	0.32940	0.06480	**0.54888**	2.50740	0.30000	**2.81344**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03466**	0.32940	0.06480	**0.53773**	2.50740	0.30000	**2.80158**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.02859**	0.32940	0.06480	**0.44228**	2.50740	0.30000	**2.40724**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01991**	0.32940	0.12960	**0.32720**	2.50740	0.60000	**1.86131**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01966**	0.32940	0.12960	**0.32714**	2.50740	0.60000	**1.85616**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01946**	0.32940	0.12960	**0.32635**	2.50740	0.60000	**1.85698**
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02192**	0.32940	0.06480	**0.32855**	2.50740	0.30000	**1.86326**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02166**	0.32940	0.06480	**0.32743**	2.50740	0.30000	**1.85842**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.02145**	0.32940	0.06480	**0.32731**	2.50740	0.30000	**1.86057**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.00888**	0.32940	0.12960	**0.00888**	2.50740	0.60000	**0.01290**
	A2	0.01860	0.00100	**0.01085**	0.32940	0.12960	**0.01069**	2.50740	0.60000	**0.01525**
	B1	0.01860	0.00100	**0.00625**	0.32940	0.12960	**0.00680**	2.50740	0.60000	**0.01398**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00455**	0.32940	0.06480	**0.00448**	2.50740	0.30000	**0.00650**
	A2	0.01860	0.00100	**0.00540**	0.32940	0.06480	**0.00529**	2.50740	0.30000	**0.00740**
	B1	0.01860	0.00100	**0.00324**	0.32940	0.06480	**0.00344**	2.50740	0.30000	**0.00702**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.00846**	0.32940	0.12960	**0.00813**	2.50740	0.60000	**0.01294**
	A2	0.01860	0.00100	**0.01206**	0.32940	0.12960	**0.01148**	2.50740	0.60000	**0.01414**
	B1	0.01860	0.00100	**0.00269**	0.32940	0.12960	**0.00328**	2.50740	0.60000	**0.01013**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00468**	0.32940	0.06480	**0.00451**	2.50740	0.30000	**0.00685**
	A2	0.01860	0.00100	**0.00637**	0.32940	0.06480	**0.00609**	2.50740	0.30000	**0.00784**
	B1	0.01860	0.00100	**0.00176**	0.32940	0.06480	**0.00202**	2.50740	0.30000	**0.00583**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00747**	0.32940	0.12960	**0.00761**	2.50740	0.60000	**0.01281**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00621**	0.32940	0.12960	**0.00676**	2.50740	0.60000	**0.01258**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00625**	0.32940	0.12960	**0.00680**	2.50740	0.60000	**0.01398**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00372**	0.32940	0.06480	**0.00376**	2.50740	0.30000	**0.00640**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00323**	0.32940	0.06480	**0.00342**	2.50740	0.30000	**0.00630**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00324**	0.32940	0.06480	**0.00344**	2.50740	0.30000	**0.00702**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00687**	0.32940	0.12960	**0.00735**	2.50740	0.60000	**0.01389**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00286**	0.32940	0.12960	**0.00369**	2.50740	0.60000	**0.00971**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00269**	0.32940	0.12960	**0.00328**	2.50740	0.60000	**0.01013**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00385**	0.32940	0.06480	**0.00410**	2.50740	0.30000	**0.00730**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00185**	0.32940	0.06480	**0.00209**	2.50740	0.30000	**0.00534**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00176**	0.32940	0.06480	**0.00202**	2.50740	0.30000	**0.00583**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00106**	0.32940	**-0.00110**	2.50740	**-0.00109**
sg13g2_a21oi_1	0.01860	**-0.00052**	0.32940	**-0.00055**	2.50740	**-0.00054**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00204**	0.32940	**0.00212**	2.50740	**0.00213**
sg13g2_a21oi_1	0.01860	**0.00092**	0.32940	**0.00096**	2.50740	**0.00097**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	B1	0.01860	**-0.00026**	0.32940	**-0.00024**	2.50740	**-0.00024**
	(!A2 * !B1)	0.01860	**-0.00106**	0.32940	**-0.00110**	2.50740	**-0.00109**
sg13g2_a21oi_1	B1	0.01860	**-0.00002**	0.32940	**-0.00001**	2.50740	**-0.00001**
	(!A2 * !B1)	0.01860	**-0.00052**	0.32940	**-0.00055**	2.50740	**-0.00054**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	B1	0.01860	**0.00026**	0.32940	**0.00024**	2.50740	**0.00024**
	(!A2 * !B1)	0.01860	**0.00204**	0.32940	**0.00212**	2.50740	**0.00213**
sg13g2_a21oi_1	B1	0.01860	**0.00002**	0.32940	**0.00001**	2.50740	**0.00001**
	(!A2 * !B1)	0.01860	**0.00092**	0.32940	**0.00096**	2.50740	**0.00097**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00048**	0.32940	**-0.00052**	2.50740	**-0.00053**
sg13g2_a21oi_1	0.01860	**-0.00025**	0.32940	**-0.00027**	2.50740	**-0.00027**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00096**	0.32940	**0.00070**	2.50740	**0.00061**
sg13g2_a21oi_1	0.01860	**0.00047**	0.32940	**0.00035**	2.50740	**0.00031**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	B1	0.01860	**-0.00015**	0.32940	**-0.00014**	2.50740	**-0.00014**
	(!A1 * !B1)	0.01860	**-0.00048**	0.32940	**-0.00052**	2.50740	**-0.00053**
sg13g2_a21oi_1	B1	0.01860	**-0.00008**	0.32940	**-0.00008**	2.50740	**-0.00008**
	(!A1 * !B1)	0.01860	**-0.00025**	0.32940	**-0.00027**	2.50740	**-0.00027**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	B1	0.01860	**0.00015**	0.32940	**0.00014**	2.50740	**0.00014**
	(!A1 * !B1)	0.01860	**0.00096**	0.32940	**0.00070**	2.50740	**0.00061**
sg13g2_a21oi_1	B1	0.01860	**0.00008**	0.32940	**0.00008**	2.50740	**0.00008**
	(!A1 * !B1)	0.01860	**0.00047**	0.32940	**0.00035**	2.50740	**0.00031**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00085**	0.32940	**0.00089**	2.50740	**0.00089**
sg13g2_a21oi_1	0.01860	**0.00048**	0.32940	**0.00050**	2.50740	**0.00050**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00085**	0.32940	**-0.00089**	2.50740	**-0.00089**
sg13g2_a21oi_1	0.01860	**-0.00048**	0.32940	**-0.00050**	2.50740	**-0.00050**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	(A1 * A2)	0.01860	**0.00085**	0.32940	**0.00089**	2.50740	**0.00089**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**0.00048**	0.32940	**0.00050**	2.50740	**0.00050**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	(A1 * A2)	0.01860	**-0.00085**	0.32940	**-0.00089**	2.50740	**-0.00089**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**-0.00048**	0.32940	**-0.00050**	2.50740	**-0.00050**

A221OI

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00290	0.00294	0.00271	0.00279	0.00249	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	364.95500	899.55700	2189.63000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1->Y (FR)	0.01860	0.00100	**0.10828**	0.32940	0.12960	**1.35806**	2.50740	0.60000	**6.07049**
	A2->Y (FR)	0.01860	0.00100	**0.12091**	0.32940	0.12960	**1.36913**	2.50740	0.60000	**6.07619**
	B1->Y (FR)	0.01860	0.00100	**0.09694**	0.32940	0.12960	**1.36005**	2.50740	0.60000	**6.25858**
	B2->Y (FR)	0.01860	0.00100	**0.10957**	0.32940	0.12960	**1.36939**	2.50740	0.60000	**6.26089**
	C1->Y (FR)	0.01860	0.00100	**0.07038**	0.32940	0.12960	**1.34478**	2.50740	0.60000	**6.35899**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1->Y (RF)	0.01860	0.00100	**0.05045**	0.32940	0.12960	**0.74574**	2.50740	0.60000	**3.65950**
	A2->Y (RF)	0.01860	0.00100	**0.05630**	0.32940	0.12960	**0.73751**	2.50740	0.60000	**3.54734**
	B1->Y (RF)	0.01860	0.00100	**0.04584**	0.32940	0.12960	**0.73374**	2.50740	0.60000	**3.64624**
	B2->Y (RF)	0.01860	0.00100	**0.05071**	0.32940	0.12960	**0.72456**	2.50740	0.60000	**3.53350**
	C1->Y (RF)	0.01860	0.00100	**0.02496**	0.32940	0.12960	**0.49618**	2.50740	0.60000	**2.69202**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1->Y (FR)	(B1 * !B2)	0.01860	0.00100	**0.10828**	0.32940	0.12960	**1.35806**	2.50740	0.60000	**6.07049**
	A1->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.09304**	0.32940	0.12960	**1.34488**	2.50740	0.60000	**6.06731**
	A1->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.08332**	0.32940	0.12960	**1.14337**	2.50740	0.60000	**5.22176**
	A2->Y (FR)	(B1 * !B2)	0.01860	0.00100	**0.12091**	0.32940	0.12960	**1.36913**	2.50740	0.60000	**6.07619**
	A2->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.10592**	0.32940	0.12960	**1.35576**	2.50740	0.60000	**6.07171**
	A2->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.09392**	0.32940	0.12960	**1.15279**	2.50740	0.60000	**5.22439**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.09694**	0.32940	0.12960	**1.36005**	2.50740	0.60000	**6.25858**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.08165**	0.32940	0.12960	**1.34551**	2.50740	0.60000	**6.25249**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.06839**	0.32940	0.12960	**1.13491**	2.50740	0.60000	**5.32576**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.10957**	0.32940	0.12960	**1.36939**	2.50740	0.60000	**6.26089**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.09453**	0.32940	0.12960	**1.35543**	2.50740	0.60000	**6.25508**
	B2->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.07883**	0.32940	0.12960	**1.14304**	2.50740	0.60000	**5.32393**
	C1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.07038**	0.32940	0.12960	**1.34478**	2.50740	0.60000	**6.35899**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1->Y (RF)	(B1 * !B2)	0.01860	0.00100	**0.05045**	0.32940	0.12960	**0.74574**	2.50740	0.60000	**3.65950**
	A1->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.04934**	0.32940	0.12960	**0.74210**	2.50740	0.60000	**3.65572**
	A1->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.05159**	0.32940	0.12960	**0.74646**	2.50740	0.60000	**3.65825**
	A2->Y (RF)	(B1 * !B2)	0.01860	0.00100	**0.05515**	0.32940	0.12960	**0.73691**	2.50740	0.60000	**3.54722**
	A2->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.05406**	0.32940	0.12960	**0.73334**	2.50740	0.60000	**3.54322**
	A2->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.05630**	0.32940	0.12960	**0.73751**	2.50740	0.60000	**3.54734**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.04584**	0.32940	0.12960	**0.73374**	2.50740	0.60000	**3.64624**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.04508**	0.32940	0.12960	**0.72972**	2.50740	0.60000	**3.64599**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.04473**	0.32940	0.12960	**0.72938**	2.50740	0.60000	**3.64159**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.05071**	0.32940	0.12960	**0.72456**	2.50740	0.60000	**3.53350**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.05000**	0.32940	0.12960	**0.72121**	2.50740	0.60000	**3.52973**
	B2->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.04963**	0.32940	0.12960	**0.72098**	2.50740	0.60000	**3.52973**
	C1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02496**	0.32940	0.12960	**0.49618**	2.50740	0.60000	**2.69202**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.01019**	0.32940	0.12960	**0.00983**	2.50740	0.60000	**0.00980**
	A2	0.01860	0.00100	**0.01041**	0.32940	0.12960	**0.00994**	2.50740	0.60000	**0.01010**
	B1	0.01860	0.00100	**0.00942**	0.32940	0.12960	**0.00914**	2.50740	0.60000	**0.00920**
	B2	0.01860	0.00100	**0.00972**	0.32940	0.12960	**0.00923**	2.50740	0.60000	**0.00938**
	C1	0.01860	0.00100	**0.00450**	0.32940	0.12960	**0.00426**	2.50740	0.60000	**0.00487**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.00675**	0.32940	0.12960	**0.00608**	2.50740	0.60000	**0.00573**
	A2	0.01860	0.00100	**0.00872**	0.32940	0.12960	**0.00805**	2.50740	0.60000	**0.00779**
	B1	0.01860	0.00100	**0.00257**	0.32940	0.12960	**0.00212**	2.50740	0.60000	**0.00234**
	B2	0.01860	0.00100	**0.00456**	0.32940	0.12960	**0.00409**	2.50740	0.60000	**0.00385**
	C1	0.01860	0.00100	**0.00405**	0.32940	0.12960	**0.00388**	2.50740	0.60000	**0.00331**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1	(B1 * !B2)	0.01860	0.00100	**0.01019**	0.32940	0.12960	**0.00983**	2.50740	0.60000	**0.00980**
	A1	(!B1 * B2)	0.01860	0.00100	**0.00973**	0.32940	0.12960	**0.00945**	2.50740	0.60000	**0.00999**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.01197**	0.32940	0.12960	**0.01167**	2.50740	0.60000	**0.01221**
	A2	(B1 * !B2)	0.01860	0.00100	**0.01041**	0.32940	0.12960	**0.00994**	2.50740	0.60000	**0.01010**
	A2	(!B1 * B2)	0.01860	0.00100	**0.01001**	0.32940	0.12960	**0.00958**	2.50740	0.60000	**0.01019**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.01224**	0.32940	0.12960	**0.01176**	2.50740	0.60000	**0.01181**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00988**	0.32940	0.12960	**0.00953**	2.50740	0.60000	**0.00982**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00942**	0.32940	0.12960	**0.00912**	2.50740	0.60000	**0.00955**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00942**	0.32940	0.12960	**0.00914**	2.50740	0.60000	**0.00920**
	B2	(A1 * !A2)	0.01860	0.00100	**0.01013**	0.32940	0.12960	**0.00961**	2.50740	0.60000	**0.00981**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00973**	0.32940	0.12960	**0.00922**	2.50740	0.60000	**0.00938**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.00972**	0.32940	0.12960	**0.00923**	2.50740	0.60000	**0.00938**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00450**	0.32940	0.12960	**0.00426**	2.50740	0.60000	**0.00487**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1	(B1 * !B2)	0.01860	0.00100	**0.00875**	0.32940	0.12960	**0.00805**	2.50740	0.60000	**0.00777**
	A1	(!B1 * B2)	0.01860	0.00100	**0.00675**	0.32940	0.12960	**0.00608**	2.50740	0.60000	**0.00573**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.00563**	0.32940	0.12960	**0.00507**	2.50740	0.60000	**0.00476**
	A2	(B1 * !B2)	0.01860	0.00100	**0.01072**	0.32940	0.12960	**0.01001**	2.50740	0.60000	**0.00989**
	A2	(!B1 * B2)	0.01860	0.00100	**0.00872**	0.32940	0.12960	**0.00805**	2.50740	0.60000	**0.00779**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.00761**	0.32940	0.12960	**0.00700**	2.50740	0.60000	**0.00664**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00457**	0.32940	0.12960	**0.00415**	2.50740	0.60000	**0.00383**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00257**	0.32940	0.12960	**0.00212**	2.50740	0.60000	**0.00234**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00249**	0.32940	0.12960	**0.00206**	2.50740	0.60000	**0.00178**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00656**	0.32940	0.12960	**0.00604**	2.50740	0.60000	**0.00578**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00456**	0.32940	0.12960	**0.00409**	2.50740	0.60000	**0.00385**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.00449**	0.32940	0.12960	**0.00399**	2.50740	0.60000	**0.00400**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00405**	0.32940	0.12960	**0.00388**	2.50740	0.60000	**0.00331**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00008**	0.32940	**-0.00007**	2.50740	**-0.00008**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00008**	0.32940	**0.00007**	2.50740	**0.00008**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00011**	0.32940	**-0.00010**	2.50740	**-0.00010**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00011**	0.32940	**0.00010**	2.50740	**0.00010**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	**(B1 * B2 * !C1)**	0.01860	**-0.00011**	0.32940	**-0.00010**	2.50740	**-0.00010**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	**(B1 * B2 * !C1)**	0.01860	**0.00011**	0.32940	**0.00010**	2.50740	**0.00010**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00181**	0.32940	**0.00184**	2.50740	**0.00185**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00181**	0.32940	**-0.00184**	2.50740	**-0.00185**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	C1	0.01860	**-0.00007**	0.32940	**-0.00007**	2.50740	**-0.00007**
	(A1 * A2 * !C1)	0.01860	**0.00181**	0.32940	**0.00184**	2.50740	**0.00185**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	C1	0.01860	**0.00007**	0.32940	**0.00007**	2.50740	**0.00007**
	(A1 * A2 * !C1)	0.01860	**-0.00181**	0.32940	**-0.00184**	2.50740	**-0.00185**

Passive power(pJ) for B2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00186**	0.32940	**0.00187**	2.50740	**0.00188**

Passive power(pJ) for B2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00186**	0.32940	**-0.00187**	2.50740	**-0.00188**

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	C1	0.01860	**-0.00004**	0.32940	**-0.00005**	2.50740	**-0.00005**
	(A1 * A2 * !C1)	0.01860	**0.00186**	0.32940	**0.00187**	2.50740	**0.00188**

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	C1	0.01860	**0.00004**	0.32940	**0.00005**	2.50740	**0.00005**
	(A1 * A2 * !C1)	0.01860	**-0.00186**	0.32940	**-0.00187**	2.50740	**-0.00188**

Passive power(pJ) for C1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00046**	0.32940	**0.00049**	2.50740	**0.00049**

Passive power(pJ) for C1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00081**	0.32940	**0.00083**	2.50740	**0.00085**

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	(B1 * B2)	0.01860	**0.00046**	0.32940	**0.00049**	2.50740	**0.00049**

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	(B1 * B2)	0.01860	**0.00081**	0.32940	**0.00083**	2.50740	**0.00085**

A22OI

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

INPUT				OUTPUT
A1	A2	B1	B2	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
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	0.00307	0.00303	0.00350	0.00355	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	158.84500	900.80100	1968.87000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a22oi_1	A1->Y (FR)	0.01860	0.00100	**0.04798**	0.32940	0.06480	**0.45994**	2.50740	0.30000	**2.34460**
	A2->Y (FR)	0.01860	0.00100	**0.05391**	0.32940	0.06480	**0.46570**	2.50740	0.30000	**2.35284**
	B1->Y (FR)	0.01860	0.00100	**0.03866**	0.32940	0.06480	**0.45112**	2.50740	0.30000	**2.41036**
	B2->Y (FR)	0.01860	0.00100	**0.03255**	0.32940	0.06480	**0.44507**	2.50740	0.30000	**2.40296**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a22oi_1	A1->Y (RF)	0.01860	0.00100	**0.04959**	0.32940	0.06480	**0.45276**	2.50740	0.30000	**2.35700**
	A2->Y (RF)	0.01860	0.00100	**0.05420**	0.32940	0.06480	**0.44263**	2.50740	0.30000	**2.22258**
	B1->Y (RF)	0.01860	0.00100	**0.03815**	0.32940	0.06480	**0.42437**	2.50740	0.30000	**2.20421**
	B2->Y (RF)	0.01860	0.00100	**0.03287**	0.32940	0.06480	**0.43423**	2.50740	0.30000	**2.33788**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00521**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	A2	0.01860	0.00100	**0.00521**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B1	0.01860	0.00100	**0.00009**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B2	0.01860	0.00100	**0.00025**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a22oi_1	A1	0.01860	0.00100	**-0.00140**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	A2	0.01860	0.00100	**-0.00038**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B1	0.01860	0.00100	**-0.00009**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B2	0.01860	0.00100	**-0.00025**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00625**	0.32940	**0.00702**	2.50740	**0.02322**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00317**	0.32940	**0.01209**	2.50740	**0.02811**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00719**	0.32940	**0.00878**	2.50740	**0.02389**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00338**	0.32940	**0.01150**	2.50740	**0.02669**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00699**	0.32940	**0.00829**	2.50740	**0.02390**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00359**	0.32940	**0.00473**	2.50740	**0.02059**

Passive power(pJ) for B2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00497**	0.32940	**0.00698**	2.50740	**0.02372**

Passive power(pJ) for B2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00304**	0.32940	**0.00438**	2.50740	**0.02111**

AND2x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and2_2	10.88640
sg13g2_and2_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_2	0.00251	0.00254	0.60000
sg13g2_and2_1	0.00253	0.00255	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_2	1558.27000	1632.70000	1710.07000
sg13g2_and2_1	823.86300	1010.75000	1352.74000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_2	A->X (RR)	0.01860	0.00100	**0.08027**	0.32940	0.12960	**0.37956**	2.50740	0.60000	**1.31487**
	B->X (RR)	0.01860	0.00100	**0.08548**	0.32940	0.12960	**0.37510**	2.50740	0.60000	**1.29264**
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.06500**	0.32940	0.06480	**0.33880**	2.50740	0.30000	**1.22301**
	B->X (RR)	0.01860	0.00100	**0.07033**	0.32940	0.06480	**0.33939**	2.50740	0.30000	**1.21547**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_2	A->X (FF)	0.01860	0.00100	**0.06813**	0.32940	0.12960	**0.34784**	2.50740	0.60000	**1.18626**
	B->X (FF)	0.01860	0.00100	**0.07333**	0.32940	0.12960	**0.36013**	2.50740	0.60000	**1.21590**
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.05607**	0.32940	0.06480	**0.30819**	2.50740	0.30000	**1.09498**
	B->X (FF)	0.01860	0.00100	**0.06143**	0.32940	0.06480	**0.32360**	2.50740	0.30000	**1.13468**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_2	A	0.01860	0.00100	**0.01311**	0.32940	0.12960	**0.01377**	2.50740	0.60000	**0.03033**
	B	0.01860	0.00100	**0.01484**	0.32940	0.12960	**0.01504**	2.50740	0.60000	**0.02802**
sg13g2_and2_1	A	0.01860	0.00100	**0.00813**	0.32940	0.06480	**0.00910**	2.50740	0.30000	**0.02299**
	B	0.01860	0.00100	**0.00989**	0.32940	0.06480	**0.01044**	2.50740	0.30000	**0.02307**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_2	A	0.01860	0.00100	**0.01175**	0.32940	0.12960	**0.01256**	2.50740	0.60000	**0.02750**
	B	0.01860	0.00100	**0.01196**	0.32940	0.12960	**0.01290**	2.50740	0.60000	**0.02653**
sg13g2_and2_1	A	0.01860	0.00100	**0.00714**	0.32940	0.06480	**0.00806**	2.50740	0.30000	**0.02123**
	B	0.01860	0.00100	**0.00736**	0.32940	0.06480	**0.00844**	2.50740	0.30000	**0.02179**

AND3x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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_2	12.70080
sg13g2_and3_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_2	0.00235	0.00249	0.00252	0.60000
sg13g2_and3_1	0.00236	0.00250	0.00251	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_2	1583.02000	1700.64000	2131.76000
sg13g2_and3_1	822.26200	1009.29000	1926.23000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_2	A->X (RR)	0.01860	0.00100	**0.10872**	0.32940	0.12960	**0.42428**	2.50740	0.60000	**1.40501**
	B->X (RR)	0.01860	0.00100	**0.11817**	0.32940	0.12960	**0.42491**	2.50740	0.60000	**1.40197**
	C->X (RR)	0.01860	0.00100	**0.12258**	0.32940	0.12960	**0.41674**	2.50740	0.60000	**1.35230**
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.08721**	0.32940	0.06480	**0.37489**	2.50740	0.30000	**1.30675**
	B->X (RR)	0.01860	0.00100	**0.09680**	0.32940	0.06480	**0.37857**	2.50740	0.30000	**1.30864**
	C->X (RR)	0.01860	0.00100	**0.10131**	0.32940	0.06480	**0.37390**	2.50740	0.30000	**1.27262**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_2	A->X (FF)	0.01860	0.00100	**0.07173**	0.32940	0.12960	**0.35562**	2.50740	0.60000	**1.18719**
	B->X (FF)	0.01860	0.00100	**0.07729**	0.32940	0.12960	**0.36750**	2.50740	0.60000	**1.21727**
	C->X (FF)	0.01860	0.00100	**0.08110**	0.32940	0.12960	**0.37736**	2.50740	0.60000	**1.24933**
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.06000**	0.32940	0.06480	**0.31825**	2.50740	0.30000	**1.09771**
	B->X (FF)	0.01860	0.00100	**0.06567**	0.32940	0.06480	**0.33136**	2.50740	0.30000	**1.13543**
	C->X (FF)	0.01860	0.00100	**0.06931**	0.32940	0.06480	**0.34219**	2.50740	0.30000	**1.16738**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_2	A	0.01860	0.00100	**0.01540**	0.32940	0.12960	**0.01563**	2.50740	0.60000	**0.02949**
	B	0.01860	0.00100	**0.01650**	0.32940	0.12960	**0.01620**	2.50740	0.60000	**0.02857**
	C	0.01860	0.00100	**0.01812**	0.32940	0.12960	**0.01761**	2.50740	0.60000	**0.03065**
sg13g2_and3_1	A	0.01860	0.00100	**0.00998**	0.32940	0.06480	**0.01079**	2.50740	0.30000	**0.02333**
	B	0.01860	0.00100	**0.01109**	0.32940	0.06480	**0.01125**	2.50740	0.30000	**0.02373**
	C	0.01860	0.00100	**0.01269**	0.32940	0.06480	**0.01269**	2.50740	0.30000	**0.02436**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_2	A	0.01860	0.00100	**0.01131**	0.32940	0.12960	**0.01181**	2.50740	0.60000	**0.02524**
	B	0.01860	0.00100	**0.01224**	0.32940	0.12960	**0.01294**	2.50740	0.60000	**0.02580**
	C	0.01860	0.00100	**0.01247**	0.32940	0.12960	**0.01339**	2.50740	0.60000	**0.02545**
sg13g2_and3_1	A	0.01860	0.00100	**0.00664**	0.32940	0.06480	**0.00735**	2.50740	0.30000	**0.01925**
	B	0.01860	0.00100	**0.00757**	0.32940	0.06480	**0.00824**	2.50740	0.30000	**0.02054**
	C	0.01860	0.00100	**0.00779**	0.32940	0.06480	**0.00852**	2.50740	0.30000	**0.02043**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**-0.00056**	0.32940	**-0.00074**	2.50740	**-0.00084**
sg13g2_and3_1	0.01860	**-0.00058**	0.32940	**-0.00075**	2.50740	**-0.00084**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**0.00056**	0.32940	**0.00074**	2.50740	**0.00084**
sg13g2_and3_1	0.01860	**0.00058**	0.32940	**0.00075**	2.50740	**0.00084**

AND4x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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_2	16.32960
sg13g2_and4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_2	0.00225	0.00226	0.00257	0.00254	0.60000
sg13g2_and4_1	0.00225	0.00227	0.00257	0.00254	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_2	1585.12000	1695.98000	2705.25000
sg13g2_and4_1	824.35200	969.92100	2499.70000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_2	A->X (RR)	0.01860	0.00100	**0.13825**	0.32940	0.12960	**0.46621**	2.50740	0.60000	**1.49060**
	B->X (RR)	0.01860	0.00100	**0.15132**	0.32940	0.12960	**0.47058**	2.50740	0.60000	**1.48500**
	C->X (RR)	0.01860	0.00100	**0.15915**	0.32940	0.12960	**0.46698**	2.50740	0.60000	**1.45393**
	D->X (RR)	0.01860	0.00100	**0.16372**	0.32940	0.12960	**0.46332**	2.50740	0.60000	**1.40437**
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.11114**	0.32940	0.06480	**0.41205**	2.50740	0.30000	**1.38538**
	B->X (RR)	0.01860	0.00100	**0.12441**	0.32940	0.06480	**0.41838**	2.50740	0.30000	**1.39190**
	C->X (RR)	0.01860	0.00100	**0.13222**	0.32940	0.06480	**0.41728**	2.50740	0.30000	**1.36419**
	D->X (RR)	0.01860	0.00100	**0.13678**	0.32940	0.06480	**0.41565**	2.50740	0.30000	**1.32241**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_2	A->X (FF)	0.01860	0.00100	**0.07465**	0.32940	0.12960	**0.36114**	2.50740	0.60000	**1.18493**
	B->X (FF)	0.01860	0.00100	**0.08017**	0.32940	0.12960	**0.37141**	2.50740	0.60000	**1.21254**
	C->X (FF)	0.01860	0.00100	**0.08423**	0.32940	0.12960	**0.38113**	2.50740	0.60000	**1.24283**
	D->X (FF)	0.01860	0.00100	**0.08744**	0.32940	0.12960	**0.38935**	2.50740	0.60000	**1.27381**
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.06375**	0.32940	0.06480	**0.32479**	2.50740	0.30000	**1.09707**
	B->X (FF)	0.01860	0.00100	**0.06931**	0.32940	0.06480	**0.33692**	2.50740	0.30000	**1.13139**
	C->X (FF)	0.01860	0.00100	**0.07332**	0.32940	0.06480	**0.34730**	2.50740	0.30000	**1.16174**
	D->X (FF)	0.01860	0.00100	**0.07613**	0.32940	0.06480	**0.35695**	2.50740	0.30000	**1.19734**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_2	A	0.01860	0.00100	**0.01665**	0.32940	0.12960	**0.01579**	2.50740	0.60000	**0.02696**
	B	0.01860	0.00100	**0.01871**	0.32940	0.12960	**0.01761**	2.50740	0.60000	**0.02717**
	C	0.01860	0.00100	**0.01977**	0.32940	0.12960	**0.01849**	2.50740	0.60000	**0.02906**
	D	0.01860	0.00100	**0.01981**	0.32940	0.12960	**0.01836**	2.50740	0.60000	**0.03060**
sg13g2_and4_1	A	0.01860	0.00100	**0.01068**	0.32940	0.06480	**0.01116**	2.50740	0.30000	**0.02345**
	B	0.01860	0.00100	**0.01279**	0.32940	0.06480	**0.01280**	2.50740	0.30000	**0.02430**
	C	0.01860	0.00100	**0.01383**	0.32940	0.06480	**0.01369**	2.50740	0.30000	**0.02535**
	D	0.01860	0.00100	**0.01387**	0.32940	0.06480	**0.01367**	2.50740	0.30000	**0.02499**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_2	A	0.01860	0.00100	**0.01156**	0.32940	0.12960	**0.01220**	2.50740	0.60000	**0.02436**
	B	0.01860	0.00100	**0.01200**	0.32940	0.12960	**0.01233**	2.50740	0.60000	**0.02313**
	C	0.01860	0.00100	**0.01280**	0.32940	0.12960	**0.01345**	2.50740	0.60000	**0.02640**
	D	0.01860	0.00100	**0.01344**	0.32940	0.12960	**0.01405**	2.50740	0.60000	**0.02658**
sg13g2_and4_1	A	0.01860	0.00100	**0.00692**	0.32940	0.06480	**0.00762**	2.50740	0.30000	**0.01940**
	B	0.01860	0.00100	**0.00733**	0.32940	0.06480	**0.00784**	2.50740	0.30000	**0.01950**
	C	0.01860	0.00100	**0.00812**	0.32940	0.06480	**0.00861**	2.50740	0.30000	**0.01987**
	D	0.01860	0.00100	**0.00867**	0.32940	0.06480	**0.00936**	2.50740	0.30000	**0.02181**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00028**	0.32940	**-0.00029**	2.50740	**-0.00028**
sg13g2_and4_1	0.01860	**-0.00029**	0.32940	**-0.00029**	2.50740	**-0.00028**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00087**	0.32940	**0.00091**	2.50740	**0.00091**
sg13g2_and4_1	0.01860	**0.00088**	0.32940	**0.00091**	2.50740	**0.00091**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(B * C * !D) + (B * !C)**	0.01860	**-0.00028**	0.32940	**-0.00029**	2.50740	**-0.00028**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**-0.00029**	0.32940	**-0.00029**	2.50740	**-0.00028**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(B * C * !D) + (B * !C)**	0.01860	**0.00087**	0.32940	**0.00091**	2.50740	**0.00091**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**0.00088**	0.32940	**0.00091**	2.50740	**0.00091**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00056**	0.32940	**-0.00057**	2.50740	**-0.00057**
sg13g2_and4_1	0.01860	**-0.00056**	0.32940	**-0.00058**	2.50740	**-0.00057**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00058**	0.32940	**0.00061**	2.50740	**0.00062**
sg13g2_and4_1	0.01860	**0.00059**	0.32940	**0.00062**	2.50740	**0.00062**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * C * !D) + (A * !C)**	0.01860	**-0.00056**	0.32940	**-0.00057**	2.50740	**-0.00057**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**-0.00056**	0.32940	**-0.00058**	2.50740	**-0.00057**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * C * !D) + (A * !C)**	0.01860	**0.00058**	0.32940	**0.00061**	2.50740	**0.00062**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**0.00059**	0.32940	**0.00062**	2.50740	**0.00062**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_and4_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_and4_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * !B * D) + (!A * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * !B * D) + (!A * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00150**	0.32940	**0.00153**	2.50740	**0.00151**
sg13g2_and4_1	0.01860	**0.00150**	0.32940	**0.00153**	2.50740	**0.00151**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00025**	0.32940	**-0.00033**	2.50740	**-0.00035**
sg13g2_and4_1	0.01860	**-0.00024**	0.32940	**-0.00033**	2.50740	**-0.00035**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * !B * C) + (!A * C)**	0.01860	**0.00150**	0.32940	**0.00153**	2.50740	**0.00151**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00150**	0.32940	**0.00153**	2.50740	**0.00151**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * !B * C) + (!A * C)**	0.01860	**-0.00025**	0.32940	**-0.00033**	2.50740	**-0.00035**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**-0.00024**	0.32940	**-0.00033**	2.50740	**-0.00035**

AO21x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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_2	14.51520
sg13g2_a21o_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_2	0.00286	0.00282	0.00258	0.60000
sg13g2_a21o_1	0.00267	0.00273	0.00244	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_2	879.74500	1473.21000	1953.94000
sg13g2_a21o_1	661.78600	1032.44000	1628.01000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_2	A1->X (RR)	0.01860	0.00100	**0.08554**	0.32940	0.12960	**0.38708**	2.50740	0.60000	**1.31219**
	A2->X (RR)	0.01860	0.00100	**0.08997**	0.32940	0.12960	**0.38136**	2.50740	0.60000	**1.29335**
	B1->X (RR)	0.01860	0.00100	**0.05596**	0.32940	0.12960	**0.34390**	2.50740	0.60000	**1.20223**
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.08041**	0.32940	0.06480	**0.36924**	2.50740	0.30000	**1.29668**
	A2->X (RR)	0.01860	0.00100	**0.08503**	0.32940	0.06480	**0.36484**	2.50740	0.30000	**1.27917**
	B1->X (RR)	0.01860	0.00100	**0.05283**	0.32940	0.06480	**0.32681**	2.50740	0.30000	**1.18584**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_2	A1->X (FF)	0.01860	0.00100	**0.11382**	0.32940	0.12960	**0.38965**	2.50740	0.60000	**1.24369**
	A2->X (FF)	0.01860	0.00100	**0.12391**	0.32940	0.12960	**0.40554**	2.50740	0.60000	**1.27950**
	B1->X (FF)	0.01860	0.00100	**0.11353**	0.32940	0.12960	**0.41313**	2.50740	0.60000	**1.34150**
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.09104**	0.32940	0.06480	**0.34304**	2.50740	0.30000	**1.13351**
	A2->X (FF)	0.01860	0.00100	**0.09999**	0.32940	0.06480	**0.35822**	2.50740	0.30000	**1.17018**
	B1->X (FF)	0.01860	0.00100	**0.08917**	0.32940	0.06480	**0.36030**	2.50740	0.30000	**1.21586**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_2	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.05596**	0.32940	0.12960	**0.34390**	2.50740	0.60000	**1.20223**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.05353**	0.32940	0.12960	**0.33342**	2.50740	0.60000	**1.17229**
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.05283**	0.32940	0.06480	**0.32681**	2.50740	0.30000	**1.18584**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.04961**	0.32940	0.06480	**0.31364**	2.50740	0.30000	**1.14927**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_2	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.11353**	0.32940	0.12960	**0.41313**	2.50740	0.60000	**1.34150**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.10138**	0.32940	0.12960	**0.39560**	2.50740	0.60000	**1.30328**
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.08917**	0.32940	0.06480	**0.36030**	2.50740	0.30000	**1.21586**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.07860**	0.32940	0.06480	**0.34171**	2.50740	0.30000	**1.18111**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_2	A1	0.01860	0.00100	**0.01431**	0.32940	0.12960	**0.01484**	2.50740	0.60000	**0.03001**
	A2	0.01860	0.00100	**0.01624**	0.32940	0.12960	**0.01653**	2.50740	0.60000	**0.03025**
	B1	0.01860	0.00100	**0.01206**	0.32940	0.12960	**0.01321**	2.50740	0.60000	**0.02866**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00927**	0.32940	0.06480	**0.00989**	2.50740	0.30000	**0.02403**
	A2	0.01860	0.00100	**0.01074**	0.32940	0.06480	**0.01113**	2.50740	0.30000	**0.02350**
	B1	0.01860	0.00100	**0.00731**	0.32940	0.06480	**0.00809**	2.50740	0.30000	**0.02417**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_2	A1	0.01860	0.00100	**0.01569**	0.32940	0.12960	**0.01541**	2.50740	0.60000	**0.02951**
	A2	0.01860	0.00100	**0.01594**	0.32940	0.12960	**0.01575**	2.50740	0.60000	**0.02980**
	B1	0.01860	0.00100	**0.01262**	0.32940	0.12960	**0.01320**	2.50740	0.60000	**0.02708**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01034**	0.32940	0.06480	**0.01056**	2.50740	0.30000	**0.02295**
	A2	0.01860	0.00100	**0.01041**	0.32940	0.06480	**0.01066**	2.50740	0.30000	**0.02328**
	B1	0.01860	0.00100	**0.00716**	0.32940	0.06480	**0.00828**	2.50740	0.30000	**0.02263**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_2	B1	(A1 * !A2)	0.01860	0.00100	**0.01408**	0.32940	0.12960	**0.01526**	2.50740	0.60000	**0.03076**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01206**	0.32940	0.12960	**0.01321**	2.50740	0.60000	**0.02866**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00904**	0.32940	0.06480	**0.00995**	2.50740	0.30000	**0.02477**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00731**	0.32940	0.06480	**0.00809**	2.50740	0.30000	**0.02417**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_2	B1	(A1 * !A2)	0.01860	0.00100	**0.01304**	0.32940	0.12960	**0.01316**	2.50740	0.60000	**0.02755**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01262**	0.32940	0.12960	**0.01320**	2.50740	0.60000	**0.02708**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00743**	0.32940	0.06480	**0.00832**	2.50740	0.30000	**0.02281**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00716**	0.32940	0.06480	**0.00828**	2.50740	0.30000	**0.02263**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00002**	0.32940	**0.00007**	2.50740	**0.00007**
sg13g2_a21o_1	0.01860	**-0.00002**	0.32940	**-0.00001**	2.50740	**-0.00001**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**-0.00002**	0.32940	**-0.00007**	2.50740	**-0.00007**
sg13g2_a21o_1	0.01860	**0.00002**	0.32940	**0.00001**	2.50740	**0.00001**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A2 * B1)	0.01860	**0.00038**	0.32940	**0.00020**	2.50740	**0.00015**
	(!A2 * B1)	0.01860	**0.00002**	0.32940	**0.00007**	2.50740	**0.00007**
sg13g2_a21o_1	(A2 * B1)	0.01860	**0.00024**	0.32940	**0.00005**	2.50740	**-0.00001**
	(!A2 * B1)	0.01860	**-0.00002**	0.32940	**-0.00001**	2.50740	**-0.00001**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A2 * B1)	0.01860	**-0.00013**	0.32940	**-0.00015**	2.50740	**-0.00015**
	(!A2 * B1)	0.01860	**-0.00002**	0.32940	**-0.00007**	2.50740	**-0.00007**
sg13g2_a21o_1	(A2 * B1)	0.01860	**0.00003**	0.32940	**0.00002**	2.50740	**0.00002**
	(!A2 * B1)	0.01860	**0.00002**	0.32940	**0.00001**	2.50740	**0.00001**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	0.01860	**0.00028**	0.32940	**0.00008**	2.50740	**0.00002**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**-0.00001**	0.32940	**-0.00000**	2.50740	**-0.00000**
sg13g2_a21o_1	0.01860	**0.00000**	0.32940	**-0.00000**	2.50740	**-0.00001**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A1 * B1)	0.01860	**0.00032**	0.32940	**0.00013**	2.50740	**0.00007**
	(!A1 * B1)	0.01860	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00028**	0.32940	**0.00008**	2.50740	**0.00002**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A1 * B1)	0.01860	**-0.00006**	0.32940	**-0.00007**	2.50740	**-0.00007**
	(!A1 * B1)	0.01860	**-0.00001**	0.32940	**-0.00000**	2.50740	**-0.00000**
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00000**	0.32940	**-0.00000**	2.50740	**-0.00001**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00053**	0.32940	**0.00057**	2.50740	**0.00058**
sg13g2_a21o_1	0.01860	**0.00043**	0.32940	**0.00046**	2.50740	**0.00047**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00064**	0.32940	**0.00064**	2.50740	**0.00065**
sg13g2_a21o_1	0.01860	**0.00076**	0.32940	**0.00077**	2.50740	**0.00078**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A1 * A2)	0.01860	**0.00053**	0.32940	**0.00057**	2.50740	**0.00058**
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00043**	0.32940	**0.00046**	2.50740	**0.00047**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A1 * A2)	0.01860	**0.00064**	0.32940	**0.00064**	2.50740	**0.00065**
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00076**	0.32940	**0.00077**	2.50740	**0.00078**

BTLx

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_ebufn_8	45.36000
sg13g2_ebufn_4	25.40160
sg13g2_ebufn_2	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_8	0.00574	0.01592	2.40000
sg13g2_ebufn_4	0.00294	0.00966	1.20000
sg13g2_ebufn_2	0.00260	0.00598	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	2462.44000	3998.39000	7045.57000
sg13g2_ebufn_4	1611.82000	2240.93000	3625.90000
sg13g2_ebufn_2	1171.82000	1486.28000	1947.78000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.01971	**0.06623**	0.32940	0.53711	**0.57453**	2.50740	2.41871	**2.21960**
	TE_B->Z (RR)	0.01860	0.01971	**0.07238**	0.32940	0.53711	**0.16875**	2.50740	2.41871	**0.36095**
	TE_B->Z (FR)	0.01860	0.01971	**0.03487**	0.32940	0.53711	**0.52298**	2.50740	2.41871	**2.59407**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01051	**0.06844**	0.32940	0.26871	**0.57578**	2.50740	1.20951	**2.22081**
	TE_B->Z (RR)	0.01860	0.01051	**0.05541**	0.32940	0.26871	**0.12797**	2.50740	1.20951	**0.26094**
	TE_B->Z (FR)	0.01860	0.01051	**0.03504**	0.32940	0.26871	**0.52165**	2.50740	1.20951	**2.58787**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00586	**0.05910**	0.32940	0.13446	**0.53945**	2.50740	0.60486	**2.13496**
	TE_B->Z (RR)	0.01860	0.00586	**0.04784**	0.32940	0.13446	**0.10716**	2.50740	0.60486	**0.21496**
	TE_B->Z (FR)	0.01860	0.00586	**0.03539**	0.32940	0.13446	**0.51777**	2.50740	0.60486	**2.57566**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02971	**0.08622**	0.32940	0.54711	**0.48784**	2.50740	2.42871	**1.76294**
	TE_B->Z (RF)	0.01860	0.02971	**0.04094**	0.32940	0.54711	**-0.18698**	2.50740	2.42871	**-1.87328**
	TE_B->Z (FF)	0.01860	0.02971	**0.08817**	0.32940	0.54711	**0.49320**	2.50740	2.42871	**1.76133**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01562	**0.08883**	0.32940	0.27382	**0.49103**	2.50740	1.21462	**1.76902**
	TE_B->Z (RF)	0.01860	0.01562	**0.03190**	0.32940	0.27382	**-0.18595**	2.50740	1.21462	**-1.87229**
	TE_B->Z (FF)	0.01860	0.01562	**0.06628**	0.32940	0.27382	**0.44064**	2.50740	1.21462	**1.63032**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00849	**0.06720**	0.32940	0.13709	**0.44432**	2.50740	0.60749	**1.66198**
	TE_B->Z (RF)	0.01860	0.00849	**0.02256**	0.32940	0.13709	**-0.20302**	2.50740	0.60749	**-1.88923**
	TE_B->Z (FF)	0.01860	0.00849	**0.05675**	0.32940	0.13709	**0.40679**	2.50740	0.60749	**1.54995**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.01971	**0.01770**	0.32940	0.53711	**0.02716**	2.50740	2.41871	**0.02557**
	TE_B	0.01860	0.01971	**0.01294**	0.32940	0.53711	**0.01070**	2.50740	2.41871	**0.00609**
sg13g2_ebufn_4	A	0.01860	0.01051	**0.00899**	0.32940	0.26871	**0.01330**	2.50740	1.20951	**0.01192**
	TE_B	0.01860	0.01051	**0.00642**	0.32940	0.26871	**0.00525**	2.50740	1.20951	**0.00257**
sg13g2_ebufn_2	A	0.01860	0.00586	**0.00485**	0.32940	0.13446	**0.00663**	2.50740	0.60486	**0.00509**
	TE_B	0.01860	0.00586	**0.00322**	0.32940	0.13446	**0.00262**	2.50740	0.60486	**0.00098**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.02971	**0.04285**	0.32940	0.54711	**0.04230**	2.50740	2.42871	**0.03194**
	TE_B	0.01860	0.02971	**0.00974**	0.32940	0.54711	**0.00753**	2.50740	2.42871	**0.00424**
sg13g2_ebufn_4	A	0.01860	0.01562	**0.02146**	0.32940	0.27382	**0.02123**	2.50740	1.21462	**0.01647**
	TE_B	0.01860	0.01562	**0.00488**	0.32940	0.27382	**0.00382**	2.50740	1.21462	**0.00198**
sg13g2_ebufn_2	A	0.01860	0.00849	**0.01040**	0.32940	0.13709	**0.01041**	2.50740	0.60749	**0.00852**
	TE_B	0.01860	0.00849	**0.00243**	0.32940	0.13709	**0.00197**	2.50740	0.60749	**0.00212**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.03529**	0.32940	**0.03738**	2.50740	**0.07589**
sg13g2_ebufn_4	0.01860	**0.01801**	0.32940	**0.01903**	2.50740	**0.03812**
sg13g2_ebufn_2	0.01860	**0.00973**	0.32940	**0.01086**	2.50740	**0.02785**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01230**	0.32940	**0.01501**	2.50740	**0.05301**
sg13g2_ebufn_4	0.01860	**0.00665**	0.32940	**0.00794**	2.50740	**0.02675**
sg13g2_ebufn_2	0.01860	**0.00422**	0.32940	**0.00551**	2.50740	**0.02231**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**-0.00452**	0.32940	**-0.00535**	2.50740	**0.01141**
sg13g2_ebufn_4	0.01860	**-0.00083**	0.32940	**-0.00070**	2.50740	**0.01781**
sg13g2_ebufn_2	0.01860	**0.00048**	0.32940	**0.00107**	2.50740	**0.01780**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.05786**	0.32940	**0.05932**	2.50740	**0.07704**
sg13g2_ebufn_4	0.01860	**0.03009**	0.32940	**0.03176**	2.50740	**0.05051**
sg13g2_ebufn_2	0.01860	**0.01603**	0.32940	**0.01752**	2.50740	**0.03426**

BUx

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_16	0.01696	4.80000
sg13g2_buf_8	0.00851	2.40000
sg13g2_buf_4	0.00368	1.20000
sg13g2_buf_2	0.00260	0.60000
sg13g2_buf_1	0.00231	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	7855.65000	10631.10000	13406.50000
sg13g2_buf_8	3927.85000	5315.64000	6703.42000
sg13g2_buf_4	1952.92000	2605.02000	3257.12000
sg13g2_buf_2	1090.12000	1391.01000	1691.89000
sg13g2_buf_1	775.62500	837.74700	899.87000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.05609**	0.32940	1.03680	**0.34856**	2.50740	4.80000	**1.25398**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.05568**	0.32940	0.51840	**0.34768**	2.50740	2.40000	**1.25208**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.07190**	0.32940	0.25920	**0.38277**	2.50740	1.20000	**1.38548**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.05598**	0.32940	0.12960	**0.34329**	2.50740	0.60000	**1.24840**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.04981**	0.32940	0.06480	**0.31889**	2.50740	0.30000	**1.19196**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.06215**	0.32940	1.03680	**0.33947**	2.50740	4.80000	**1.16750**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.06162**	0.32940	0.51840	**0.33875**	2.50740	2.40000	**1.16784**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.06065**	0.32940	0.25920	**0.33357**	2.50740	1.20000	**1.10716**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.05980**	0.32940	0.12960	**0.32848**	2.50740	0.60000	**1.13394**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.05279**	0.32940	0.06480	**0.30122**	2.50740	0.30000	**1.07527**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.09333**	0.32940	1.03680	**0.10305**	2.50740	4.80000	**0.21134**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04602**	0.32940	0.51840	**0.05129**	2.50740	2.40000	**0.10649**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02266**	0.32940	0.25920	**0.02394**	2.50740	1.20000	**0.04850**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01206**	0.32940	0.12960	**0.01332**	2.50740	0.60000	**0.02880**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00715**	0.32940	0.06480	**0.00810**	2.50740	0.30000	**0.02117**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.09152**	0.32940	1.03680	**0.10144**	2.50740	4.80000	**0.20649**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04516**	0.32940	0.51840	**0.05000**	2.50740	2.40000	**0.10290**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02271**	0.32940	0.25920	**0.02458**	2.50740	1.20000	**0.04337**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01189**	0.32940	0.12960	**0.01343**	2.50740	0.60000	**0.02873**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00712**	0.32940	0.06480	**0.00826**	2.50740	0.30000	**0.02157**

DECAPx

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	425.38900	425.38900	425.38900
sg13g2_decap_8	850.82400	850.82400	850.82400

DFFRRx

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_2	54.43200
sg13g2_dfrbp_1	47.17440

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	CLK	Q	Q_N
sg13g2_dfrbp_2	0.00160	0.00582	0.00282	0.60000	0.60000
sg13g2_dfrbp_1	0.00173	0.00638	0.00274	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	4377.29000	5083.71000	5904.02000
sg13g2_dfrbp_1	3291.05000	3958.96000	4709.15000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.23873**	0.32940	0.12960	**0.50738**	2.50740	0.60000	**1.40019**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.19439**	0.32940	0.06480	**0.46857**	2.50740	0.30000	**1.33959**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.20758**	0.32940	0.12960	**0.46036**	2.50740	0.60000	**1.22865**
	RESET_B->Q (FF)	0.01860	0.00100	**0.28190**	0.32940	0.12960	**0.57302**	2.50740	0.60000	**1.52389**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.18561**	0.32940	0.06480	**0.43885**	2.50740	0.30000	**1.19388**
	RESET_B->Q (FF)	0.01860	0.00100	**0.24862**	0.32940	0.06480	**0.53666**	2.50740	0.30000	**1.47306**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.13926**	0.32940	0.12960	**0.44791**	2.50740	0.60000	**1.30975**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.21472**	0.32940	0.12960	**0.55879**	2.50740	0.60000	**1.60339**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.14297**	0.32940	0.06480	**0.44242**	2.50740	0.30000	**1.29132**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.20632**	0.32940	0.06480	**0.53817**	2.50740	0.30000	**1.56951**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.15462**	0.32940	0.12960	**0.47121**	2.50740	0.60000	**1.27338**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.14623**	0.32940	0.06480	**0.44128**	2.50740	0.30000	**1.22484**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.17809**	2.50740	2.50740	**-0.23612**
	setup	**CLK (R)**	0.01860	0.01860	**0.12470**	1.26300	1.26300	**0.25095**	2.50740	2.50740	**0.31582**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.05135**	1.26300	1.26300	**-0.19158**	2.50740	2.50740	**-0.25678**
	setup	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.25904**	2.50740	2.50740	**0.33648**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02445**	1.26300	1.26300	**-0.15381**	2.50740	2.50740	**-0.25088**
	setup	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.26444**	2.50740	2.50740	**0.37189**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02201**	1.26300	1.26300	**-0.14841**	2.50740	2.50740	**-0.23612**
	setup	**CLK (R)**	0.01860	0.01860	**0.11248**	1.26300	1.26300	**0.26174**	2.50740	2.50740	**0.37189**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.28063**	2.50740	2.50740	**0.39846**
	removal	**CLK (R)**	0.01860	0.01860	**-0.10514**	1.26300	1.26300	**-0.26174**	2.50740	2.50740	**-0.38075**
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.12715**	1.26300	1.26300	**0.28873**	2.50740	2.50740	**0.42502**
	removal	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.25904**	2.50740	2.50740	**-0.39255**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dfrbp_2	-	3.3435
sg13g2_dfrbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_dfrbp_2	3.3435	3.3435
sg13g2_dfrbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.04881**	0.32940	0.12960	**0.16645**	2.50740	0.60000	**0.62272**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03873**	0.32940	0.06480	**0.09822**	2.50740	0.30000	**0.33801**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.04832**	0.32940	0.12960	**0.16716**	2.50740	0.60000	**0.61665**
	RESET_B	0.01860	0.00100	**0.03675**	0.32940	0.12960	**0.15451**	2.50740	0.60000	**0.59415**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03764**	0.32940	0.06480	**0.09735**	2.50740	0.30000	**0.33191**
	RESET_B	0.01860	0.00100	**0.02555**	0.32940	0.06480	**0.08438**	2.50740	0.30000	**0.30708**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.04836**	0.32940	0.12960	**0.16776**	2.50740	0.60000	**0.62275**
	RESET_B	0.01860	0.00100	**0.03677**	0.32940	0.12960	**0.15532**	2.50740	0.60000	**0.59647**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03765**	0.32940	0.06480	**0.09771**	2.50740	0.30000	**0.33455**
	RESET_B	0.01860	0.00100	**0.02554**	0.32940	0.06480	**0.08479**	2.50740	0.30000	**0.30830**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.04882**	0.32940	0.12960	**0.16587**	2.50740	0.60000	**0.61717**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03873**	0.32940	0.06480	**0.09789**	2.50740	0.30000	**0.33136**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00221**	0.32940	**0.00269**	2.50740	**0.01005**
sg13g2_dfrbp_1	0.01860	**0.00235**	0.32940	**0.00279**	2.50740	**0.01009**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00168**	0.32940	**0.00215**	2.50740	**0.00956**
sg13g2_dfrbp_1	0.01860	**0.00186**	0.32940	**0.00233**	2.50740	**0.00968**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00221**	0.32940	**0.00269**	2.50740	**0.01005**
	(!CLK * RESET_B)	0.01860	**0.01506**	0.32940	**0.01547**	2.50740	**0.02397**
	(!CLK * !RESET_B)	0.01860	**-0.00004**	0.32940	**-0.00006**	2.50740	**-0.00006**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00235**	0.32940	**0.00279**	2.50740	**0.01009**
	(!CLK * RESET_B)	0.01860	**0.01287**	0.32940	**0.01338**	2.50740	**0.02175**
	(!CLK * !RESET_B)	0.01860	**0.00014**	0.32940	**0.00013**	2.50740	**0.00013**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00168**	0.32940	**0.00215**	2.50740	**0.00956**
	(!CLK * RESET_B)	0.01860	**0.01179**	0.32940	**0.01221**	2.50740	**0.02096**
	(!CLK * !RESET_B)	0.01860	**0.00004**	0.32940	**0.00006**	2.50740	**0.00006**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00186**	0.32940	**0.00233**	2.50740	**0.00968**
	(!CLK * RESET_B)	0.01860	**0.01096**	0.32940	**0.01137**	2.50740	**0.02004**
	(!CLK * !RESET_B)	0.01860	**0.00001**	0.32940	**0.00004**	2.50740	**0.00004**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00503**	0.32940	**0.00519**	2.50740	**0.01188**
sg13g2_dfrbp_1	0.01860	**0.00560**	0.32940	**0.00572**	2.50740	**0.01237**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01123**	0.32940	**0.01124**	2.50740	**0.02165**
sg13g2_dfrbp_1	0.01860	**0.00995**	0.32940	**0.00990**	2.50740	**0.02041**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00503**	0.32940	**0.00519**	2.50740	**0.01188**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00210**	0.32940	**0.00205**	2.50740	**0.00205**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01832**	0.32940	**0.01840**	2.50740	**0.02845**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00208**	0.32940	**0.00203**	2.50740	**0.00203**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00560**	0.32940	**0.00572**	2.50740	**0.01237**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00264**	0.32940	**0.00259**	2.50740	**0.00259**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01657**	0.32940	**0.01675**	2.50740	**0.02675**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00266**	0.32940	**0.00262**	2.50740	**0.00261**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.04744**	0.32940	**0.04784**	2.50740	**0.06869**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00154**	0.32940	**-0.00174**	2.50740	**-0.00182**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01123**	0.32940	**0.01124**	2.50740	**0.02165**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00187**	0.32940	**-0.00202**	2.50740	**-0.00203**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.03457**	0.32940	**0.03498**	2.50740	**0.05532**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00207**	0.32940	**-0.00227**	2.50740	**-0.00235**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00995**	0.32940	**0.00990**	2.50740	**0.02041**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00217**	0.32940	**-0.00235**	2.50740	**-0.00241**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01393**	0.32940	**0.01503**	2.50740	**0.03546**
sg13g2_dfrbp_1	0.01860	**0.01398**	0.32940	**0.01501**	2.50740	**0.03380**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.02633**	0.32940	**0.02737**	2.50740	**0.04824**
sg13g2_dfrbp_1	0.01860	**0.02431**	0.32940	**0.02530**	2.50740	**0.04513**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.01393**	0.32940	**0.01503**	2.50740	**0.03546**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01456**	0.32940	**0.01567**	2.50740	**0.03600**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01374**	0.32940	**0.01486**	2.50740	**0.03524**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01438**	0.32940	**0.01549**	2.50740	**0.03582**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01445**	0.32940	**0.01547**	2.50740	**0.03436**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01398**	0.32940	**0.01501**	2.50740	**0.03380**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01380**	0.32940	**0.01483**	2.50740	**0.03360**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01378**	0.32940	**0.01480**	2.50740	**0.03359**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.02798**	0.32940	**0.02901**	2.50740	**0.04989**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02633**	0.32940	**0.02737**	2.50740	**0.04824**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01360**	0.32940	**0.01480**	2.50740	**0.03499**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00395**	0.32940	**0.04998**	2.50740	**0.07017**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01352**	0.32940	**0.01468**	2.50740	**0.03492**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01354**	0.32940	**0.01473**	2.50740	**0.03493**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.02641**	0.32940	**0.02739**	2.50740	**0.04722**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02431**	0.32940	**0.02530**	2.50740	**0.04513**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01395**	0.32940	**0.01509**	2.50740	**0.03404**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00372**	0.32940	**0.04051**	2.50740	**0.05929**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01387**	0.32940	**0.01500**	2.50740	**0.03395**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01389**	0.32940	**0.01502**	2.50740	**0.03396**

DLHQ

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00227	0.00232	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	2192.03000	2672.94000	3355.58000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.17733**	0.32940	0.06480	**0.44362**	2.50740	0.30000	**1.28833**
	GATE->Q (RR)	0.01860	0.00100	**0.15100**	0.32940	0.06480	**0.41798**	2.50740	0.30000	**1.22804**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.15594**	0.32940	0.06480	**0.40002**	2.50740	0.30000	**1.14033**
	GATE->Q (RF)	0.01860	0.00100	**0.16088**	0.32940	0.06480	**0.40409**	2.50740	0.30000	**1.09905**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.20366**
	setup	GATE (F)	0.01860	0.01860	**0.10759**	1.26300	1.26300	**0.23746**	2.50740	2.50740	**0.29515**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.03912**	1.26300	1.26300	**0.00270**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.00810**	2.50740	2.50740	**-0.03247**

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01842**	0.32940	0.06480	**0.01867**	2.50740	0.30000	**0.01931**
	GATE	0.01860	0.00100	**0.01489**	0.32940	0.06480	**0.01508**	2.50740	0.30000	**0.01658**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01889**	0.32940	0.06480	**0.01923**	2.50740	0.30000	**0.01934**
	GATE	0.01860	0.00100	**0.01626**	0.32940	0.06480	**0.01685**	2.50740	0.30000	**0.01678**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00424**	0.32940	**0.00512**	2.50740	**0.01903**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00484**	0.32940	**0.00572**	2.50740	**0.01940**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00507**	0.32940	**0.00583**	2.50740	**0.01973**
	(!GATE * !Q)	0.01860	**0.00424**	0.32940	**0.00512**	2.50740	**0.01903**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00441**	0.32940	**0.00539**	2.50740	**0.01913**
	(!GATE * !Q)	0.01860	**0.00484**	0.32940	**0.00572**	2.50740	**0.01940**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.01104**	0.32940	**0.01211**	2.50740	**0.02968**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00376**	0.32940	**0.02060**	2.50740	**0.03842**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.01104**	0.32940	**0.01211**	2.50740	**0.02968**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.00376**	0.32940	**0.02060**	2.50740	**0.03842**

DLHRQ

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhrq_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	RESET_B	GATE	Q
sg13g2_dlhrq_1	0.00214	0.00288	0.00224	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	2461.77000	2905.83000	3378.49000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.18662**	0.32940	0.06480	**0.45746**	2.50740	0.30000	**1.29968**
	GATE->Q (RR)	0.01860	0.00100	**0.16787**	0.32940	0.06480	**0.44157**	2.50740	0.30000	**1.25130**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.16492**	0.32940	0.06480	**0.41188**	2.50740	0.30000	**1.15929**
	GATE->Q (RF)	0.01860	0.00100	**0.17213**	0.32940	0.06480	**0.42077**	2.50740	0.30000	**1.12772**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06528**	0.32940	0.06480	**0.33342**	2.50740	0.30000	**1.15970**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.08069**	1.26300	1.26300	**-0.16460**	2.50740	2.50740	**-0.17709**
	setup	GATE (F)	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.21857**	2.50740	2.50740	**0.26859**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**0.00270**	2.50740	2.50740	**0.04427**
	setup	GATE (F)	0.01860	0.01860	**0.05624**	1.26300	1.26300	**0.00810**	2.50740	2.50740	**-0.03247**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.01223**	1.26300	1.26300	**-0.11603**	2.50740	2.50740	**-0.17709**
	removal	GATE (F)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.14571**	2.50740	2.50740	**0.21251**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhrq_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhrq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00259**	0.32940	0.06480	**0.00099**	2.50740	0.30000	**0.00189**
	GATE	0.01860	0.00100	**0.01540**	0.32940	0.06480	**0.01545**	2.50740	0.30000	**0.01642**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00809**	0.32940	0.06480	**-0.00099**	2.50740	0.30000	**-0.00189**
	GATE	0.01860	0.00100	**0.01541**	0.32940	0.06480	**0.01602**	2.50740	0.30000	**0.01611**
	RESET_B	0.01860	0.00100	**0.00937**	0.32940	0.06480	**0.01070**	2.50740	0.30000	**0.02683**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.02010**	0.32940	**0.02272**	2.50740	**0.03695**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01415**	0.32940	**0.03223**	2.50740	**0.04628**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00145**	0.32940	**0.00228**	2.50740	**0.01616**
	!RESET_B	0.01860	**0.02010**	0.32940	**0.02272**	2.50740	**0.03695**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00576**	0.32940	**0.00673**	2.50740	**0.02047**
	!RESET_B	0.01860	**0.01415**	0.32940	**0.03223**	2.50740	**0.04628**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00012**	0.32940	**0.00008**	2.50740	**0.00008**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00020**	0.32940	**0.00009**	2.50740	**0.00005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00012**	0.32940	**0.00008**	2.50740	**0.00008**
	(!D * !GATE * !Q)	0.01860	**0.00012**	0.32940	**0.00008**	2.50740	**0.00008**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00021**	0.32940	**0.00009**	2.50740	**0.00005**
	(!D * !GATE * !Q)	0.01860	**0.00020**	0.32940	**0.00009**	2.50740	**0.00005**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01126**	0.32940	**0.01229**	2.50740	**0.02973**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00369**	0.32940	**0.02074**	2.50740	**0.03839**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01497**	0.32940	**0.01592**	2.50740	**0.03447**
	(!D * !RESET_B * !Q)	0.01860	**0.01126**	0.32940	**0.01229**	2.50740	**0.02973**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01493**	0.32940	**0.01615**	2.50740	**0.03505**
	(!D * RESET_B * !Q)	0.01860	**0.00369**	0.32940	**0.02074**	2.50740	**0.03839**
	(!D * !RESET_B * !Q)	0.01860	**0.00376**	0.32940	**0.02081**	2.50740	**0.03845**

DLHR

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE	Q	Q_N
sg13g2_dlhr_1	0.00208	0.00305	0.00228	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	3241.38000	3729.76000	4179.22000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.20178**	0.32940	0.06480	**0.47930**	2.50740	0.30000	**1.32173**
	GATE->Q (RR)	0.01860	0.00100	**0.18389**	0.32940	0.06480	**0.46501**	2.50740	0.30000	**1.27602**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.17099**	0.32940	0.06480	**0.42102**	2.50740	0.30000	**1.16298**
	GATE->Q (RF)	0.01860	0.00100	**0.17841**	0.32940	0.06480	**0.43059**	2.50740	0.30000	**1.13232**
	RESET_B->Q (FF)	0.01860	0.00100	**0.07104**	0.32940	0.06480	**0.35057**	2.50740	0.30000	**1.18856**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.21011**	0.32940	0.06480	**0.47154**	2.50740	0.30000	**1.30865**
	GATE->Q_N (RR)	0.01860	0.00100	**0.21772**	0.32940	0.06480	**0.48133**	2.50740	0.30000	**1.27673**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.11010**	0.32940	0.06480	**0.39434**	2.50740	0.30000	**1.27839**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.24452**	0.32940	0.06480	**0.48123**	2.50740	0.30000	**1.22913**
	GATE->Q_N (RF)	0.01860	0.00100	**0.22685**	0.32940	0.06480	**0.46719**	2.50740	0.30000	**1.18385**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.08803**	1.26300	1.26300	**-0.16730**	2.50740	2.50740	**-0.18299**
	setup	GATE (F)	0.01860	0.01860	**0.11003**	1.26300	1.26300	**0.21857**	2.50740	2.50740	**0.26859**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**0.00270**	2.50740	2.50740	**0.04427**
	setup	GATE (F)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.00810**	2.50740	2.50740	**-0.03247**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**-0.00245**	1.26300	1.26300	**-0.07016**	2.50740	2.50740	**-0.11216**
	removal	GATE (F)	0.01860	0.01860	**0.02201**	1.26300	1.26300	**0.10524**	2.50740	2.50740	**0.14758**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhr_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhr_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00646**	0.32940	0.06480	**0.00587**	2.50740	0.30000	**0.00770**
	GATE	0.01860	0.00100	**0.01270**	0.32940	0.06480	**0.01297**	2.50740	0.30000	**0.01396**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00904**	0.32940	0.06480	**0.00071**	2.50740	0.30000	**0.00025**
	GATE	0.01860	0.00100	**0.01269**	0.32940	0.06480	**0.01307**	2.50740	0.30000	**0.01280**
	RESET_B	0.01860	0.00100	**0.00948**	0.32940	0.06480	**0.01011**	2.50740	0.30000	**0.01942**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00906**	0.32940	0.06480	**0.00090**	2.50740	0.30000	**0.00219**
	GATE	0.01860	0.00100	**0.01812**	0.32940	0.06480	**0.01922**	2.50740	0.30000	**0.02859**
	RESET_B	0.01860	0.00100	**0.00950**	0.32940	0.06480	**0.01017**	2.50740	0.30000	**0.01973**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00646**	0.32940	0.06480	**0.00572**	2.50740	0.30000	**0.00621**
	GATE	0.01860	0.00100	**0.01269**	0.32940	0.06480	**0.01283**	2.50740	0.30000	**0.01374**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01958**	0.32940	**0.02218**	2.50740	**0.03645**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01390**	0.32940	**0.03189**	2.50740	**0.04599**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	**(!GATE * RESET_B * Q)**	0.01860	**0.00412**	0.32940	**0.00496**	2.50740	**0.01894**
	!RESET_B	0.01860	**0.01958**	0.32940	**0.02218**	2.50740	**0.03645**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	**(!GATE * RESET_B * Q)**	0.01860	**0.00832**	0.32940	**0.00933**	2.50740	**0.02311**
	!RESET_B	0.01860	**0.01390**	0.32940	**0.03189**	2.50740	**0.04599**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**-0.00001**	0.32940	**-0.00007**	2.50740	**-0.00007**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00032**	0.32940	**0.00022**	2.50740	**0.00018**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**-0.00001**	0.32940	**-0.00007**	2.50740	**-0.00007**
	(!D * !GATE * !Q)	0.01860	**-0.00001**	0.32940	**-0.00007**	2.50740	**-0.00007**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00032**	0.32940	**0.00022**	2.50740	**0.00018**
	(!D * !GATE * !Q)	0.01860	**0.00032**	0.32940	**0.00022**	2.50740	**0.00018**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01085**	0.32940	**0.01183**	2.50740	**0.02943**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00378**	0.32940	**0.02044**	2.50740	**0.03818**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01452**	0.32940	**0.01542**	2.50740	**0.03406**
	(!D * !RESET_B * !Q)	0.01860	**0.01085**	0.32940	**0.01183**	2.50740	**0.02943**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01527**	0.32940	**0.01648**	2.50740	**0.03545**
	(!D * RESET_B * !Q)	0.01860	**0.00378**	0.32940	**0.02044**	2.50740	**0.03818**
	(!D * !RESET_B * !Q)	0.01860	**0.00385**	0.32940	**0.02051**	2.50740	**0.03824**

DLLRQ

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	RESET_B	GATE_N	Q
sg13g2_dllrq_1	0.00205	0.00289	0.00221	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	2319.70000	2868.84000	3378.58000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.18555**	0.32940	0.06480	**0.45551**	2.50740	0.30000	**1.29734**
	GATE_N->Q (FR)	0.01860	0.00100	**0.20820**	0.32940	0.06480	**0.49326**	2.50740	0.30000	**1.39453**
	RESET_B->Q (RR)	0.01860	0.00100	**0.08171**	0.32940	0.06480	**0.35119**	2.50740	0.30000	**1.24388**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.16409**	0.32940	0.06480	**0.40923**	2.50740	0.30000	**1.15244**
	GATE_N->Q (FF)	0.01860	0.00100	**0.15684**	0.32940	0.06480	**0.42111**	2.50740	0.30000	**1.25250**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06590**	0.32940	0.06480	**0.33294**	2.50740	0.30000	**1.15732**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.07580**	1.26300	1.26300	**-0.08905**	2.50740	2.50740	**-0.12101**
	setup	GATE_N (R)	0.01860	0.01860	**0.08314**	1.26300	1.26300	**0.09984**	2.50740	2.50740	**0.13282**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08314**	1.26300	1.26300	**-0.22936**	2.50740	2.50740	**-0.30696**
	setup	GATE_N (R)	0.01860	0.01860	**0.09536**	1.26300	1.26300	**0.28333**	2.50740	2.50740	**0.40141**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.08095**	2.50740	2.50740	**-0.07379**
	removal	GATE_N (R)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.09984**	2.50740	2.50740	**0.09150**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00772**	0.32940	0.06480	**0.00820**	2.50740	0.30000	**0.00922**
	GATE_N	0.01860	0.00100	**0.02371**	0.32940	0.06480	**0.00818**	2.50740	0.30000	**0.00869**
	RESET_B	0.01860	0.00100	**0.01022**	0.32940	0.06480	**0.01071**	2.50740	0.30000	**0.02637**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.01946**	0.32940	0.06480	**0.00021**	2.50740	0.30000	**-0.00000**
	GATE_N	0.01860	0.00100	**0.02233**	0.32940	0.06480	**0.00684**	2.50740	0.30000	**0.00887**
	RESET_B	0.01860	0.00100	**0.00812**	0.32940	0.06480	**0.00941**	2.50740	0.30000	**0.02541**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01482**	0.32940	**0.01542**	2.50740	**0.02927**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00292**	0.32940	**0.02338**	2.50740	**0.03745**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00135**	0.32940	**0.00218**	2.50740	**0.01614**
	!RESET_B	0.01860	**0.01482**	0.32940	**0.01542**	2.50740	**0.02927**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00711**	0.32940	**0.00811**	2.50740	**0.02189**
	!RESET_B	0.01860	**0.00292**	0.32940	**0.02338**	2.50740	**0.03745**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00153**	0.32940	**0.00148**	2.50740	**0.00149**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00164**	0.32940	**0.00153**	2.50740	**0.00148**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00011**	0.32940	**0.00006**	2.50740	**0.00007**
	(!D * GATE_N * !Q)	0.01860	**0.00153**	0.32940	**0.00148**	2.50740	**0.00149**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00022**	0.32940	**0.00011**	2.50740	**0.00007**
	(!D * GATE_N * !Q)	0.01860	**0.00164**	0.32940	**0.00153**	2.50740	**0.00148**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01098**	0.32940	**0.01203**	2.50740	**0.02952**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00370**	0.32940	**0.02064**	2.50740	**0.03841**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.01641**	0.32940	**0.01737**	2.50740	**0.03459**
	(!D * !RESET_B * !Q)	0.01860	**0.01098**	0.32940	**0.01203**	2.50740	**0.02952**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.01580**	0.32940	**0.01691**	2.50740	**0.03447**
	(!D * RESET_B * !Q)	0.01860	**0.00370**	0.32940	**0.02064**	2.50740	**0.03841**
	(!D * !RESET_B * !Q)	0.01860	**0.00377**	0.32940	**0.02071**	2.50740	**0.03848**

DLLR

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE_N	Q	Q_N
sg13g2_dllr_1	0.00215	0.00301	0.00233	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	3098.98000	3805.05000	4197.96000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.20364**	0.32940	0.06480	**0.48042**	2.50740	0.30000	**1.32222**
	GATE_N->Q (FR)	0.01860	0.00100	**0.22598**	0.32940	0.06480	**0.51898**	2.50740	0.30000	**1.42041**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.17303**	0.32940	0.06480	**0.42257**	2.50740	0.30000	**1.16462**
	GATE_N->Q (FF)	0.01860	0.00100	**0.16672**	0.32940	0.06480	**0.43681**	2.50740	0.30000	**1.27127**
	RESET_B->Q (FF)	0.01860	0.00100	**0.07094**	0.32940	0.06480	**0.35467**	2.50740	0.30000	**1.17043**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.21193**	0.32940	0.06480	**0.47278**	2.50740	0.30000	**1.30836**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.20583**	0.32940	0.06480	**0.48713**	2.50740	0.30000	**1.41364**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.11066**	0.32940	0.06480	**0.39635**	2.50740	0.30000	**1.28609**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.24611**	0.32940	0.06480	**0.48271**	2.50740	0.30000	**1.22989**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.26865**	0.32940	0.06480	**0.52133**	2.50740	0.30000	**1.32924**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08558**	1.26300	1.26300	**-0.09444**	2.50740	2.50740	**-0.12692**
	setup	GATE_N (R)	0.01860	0.01860	**0.09536**	1.26300	1.26300	**0.10794**	2.50740	2.50740	**0.14167**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08803**	1.26300	1.26300	**-0.23206**	2.50740	2.50740	**-0.30991**
	setup	GATE_N (R)	0.01860	0.01860	**0.10025**	1.26300	1.26300	**0.28333**	2.50740	2.50740	**0.40436**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**-0.03778**	2.50740	2.50740	**-0.01181**
	removal	GATE_N (R)	0.01860	0.01860	**0.04157**	1.26300	1.26300	**0.06206**	2.50740	2.50740	**0.03247**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01224**	0.32940	0.06480	**0.07024**	2.50740	0.30000	**0.28897**
	GATE_N	0.01860	0.00100	**0.02816**	0.32940	0.06480	**0.08703**	2.50740	0.30000	**0.30225**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01860**	0.32940	0.06480	**0.05873**	2.50740	0.30000	**0.27218**
	GATE_N	0.01860	0.00100	**0.02613**	0.32940	0.06480	**0.08466**	2.50740	0.30000	**0.30105**
	RESET_B	0.01860	0.00100	**0.02810**	0.32940	0.06480	**0.08696**	2.50740	0.30000	**0.31562**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01865**	0.32940	0.06480	**0.05907**	2.50740	0.30000	**0.27561**
	GATE_N	0.01860	0.00100	**0.03670**	0.32940	0.06480	**0.09675**	2.50740	0.30000	**0.33129**
	RESET_B	0.01860	0.00100	**0.02954**	0.32940	0.06480	**0.08857**	2.50740	0.30000	**0.31975**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01225**	0.32940	0.06480	**0.06993**	2.50740	0.30000	**0.28601**
	GATE_N	0.01860	0.00100	**0.02816**	0.32940	0.06480	**0.08675**	2.50740	0.30000	**0.30070**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.02175**	0.32940	**0.02333**	2.50740	**0.03764**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01417**	0.32940	**0.03353**	2.50740	**0.04761**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00419**	0.32940	**0.00504**	2.50740	**0.01902**
	!RESET_B	0.01860	**0.02175**	0.32940	**0.02333**	2.50740	**0.03764**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00405**	0.32940	**0.00505**	2.50740	**0.01885**
	!RESET_B	0.01860	**0.01417**	0.32940	**0.03353**	2.50740	**0.04761**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**-0.00004**	0.32940	**-0.00010**	2.50740	**-0.00010**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00179**	0.32940	**0.00168**	2.50740	**0.00164**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00347**	0.32940	**0.00341**	2.50740	**0.00341**
	(!D * GATE_N * !Q)	0.01860	**-0.00004**	0.32940	**-0.00010**	2.50740	**-0.00010**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00036**	0.32940	**0.00026**	2.50740	**0.00022**
	(!D * GATE_N * !Q)	0.01860	**0.00179**	0.32940	**0.00168**	2.50740	**0.00164**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00295**	0.32940	**0.02089**	2.50740	**0.03835**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01055**	0.32940	**0.01174**	2.50740	**0.02955**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01647**	0.32940	**0.01744**	2.50740	**0.03465**
	(!D * RESET_B * !Q)	0.01860	**0.00295**	0.32940	**0.02089**	2.50740	**0.03835**
	(!D * !RESET_B * !Q)	0.01860	**0.00444**	0.32940	**0.02238**	2.50740	**0.03984**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01610**	0.32940	**0.01723**	2.50740	**0.03476**
	(!D * !RESET_B * !Q)	0.01860	**0.01055**	0.32940	**0.01174**	2.50740	**0.02955**

DLY1

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00147	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	1250.77000	1439.16000	1627.55000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.11768**	0.32940	0.06480	**0.38345**	2.50740	0.30000	**1.16411**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.13589**	0.32940	0.06480	**0.40542**	2.50740	0.30000	**1.26718**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01574**	0.32940	0.06480	**0.01631**	2.50740	0.30000	**0.02560**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01499**	0.32940	0.06480	**0.01581**	2.50740	0.30000	**0.02495**

DLY2

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00147	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	1270.93000	1459.32000	1647.70000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.17498**	0.32940	0.06480	**0.45301**	2.50740	0.30000	**1.27767**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.19677**	0.32940	0.06480	**0.48587**	2.50740	0.30000	**1.38809**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01869**	0.32940	0.06480	**0.01911**	2.50740	0.30000	**0.02723**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01811**	0.32940	0.06480	**0.01859**	2.50740	0.30000	**0.02648**

DLY4

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00149	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	2554.53000	2742.91000	2931.30000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.38478**	0.32940	0.06480	**0.69757**	2.50740	0.30000	**1.61017**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.40391**	0.32940	0.06480	**0.73083**	2.50740	0.30000	**1.72367**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02693**	0.32940	0.06480	**0.02691**	2.50740	0.30000	**0.03438**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02661**	0.32940	0.06480	**0.02640**	2.50740	0.30000	**0.03358**

EINVINx

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_4	23.58720
sg13g2_einvn_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_4	0.00784	0.00910	1.20000
sg13g2_einvn_2	0.00400	0.00485	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	1199.74000	2309.88000	3420.01000
sg13g2_einvn_2	594.23400	1149.30000	1704.37000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (FR)	0.01860	0.01053	**0.02489**	0.32940	0.26873	**0.53294**	2.50740	1.20953	**2.80140**
	TE_B->Z (RR)	0.01860	0.01053	**0.05365**	0.32940	0.26873	**0.12652**	2.50740	1.20953	**0.25937**
	TE_B->Z (FR)	0.01860	0.01053	**0.03187**	0.32940	0.26873	**0.51730**	2.50740	1.20953	**2.58004**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00587	**0.02644**	0.32940	0.13447	**0.53280**	2.50740	0.60487	**2.79963**
	TE_B->Z (RR)	0.01860	0.00587	**0.05228**	0.32940	0.13447	**0.12486**	2.50740	0.60487	**0.26188**
	TE_B->Z (FR)	0.01860	0.00587	**0.03343**	0.32940	0.13447	**0.51723**	2.50740	0.60487	**2.58044**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01564	**0.02278**	0.32940	0.27384	**0.43092**	2.50740	1.21464	**2.34456**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00850	**0.02409**	0.32940	0.13710	**0.43099**	2.50740	0.60750	**2.34427**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01053	**0.01198**	0.32940	0.26873	**0.01267**	2.50740	1.20953	**0.02586**
	TE_B	0.01860	0.01053	**0.02792**	0.32940	0.26873	**0.01753**	2.50740	1.20953	**0.01375**
sg13g2_einvn_2	A	0.01860	0.00587	**0.00596**	0.32940	0.13447	**0.00627**	2.50740	0.60487	**0.01257**
	TE_B	0.01860	0.00587	**0.01387**	0.32940	0.13447	**0.00866**	2.50740	0.60487	**0.00677**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01564	**0.01173**	0.32940	0.27384	**0.01388**	2.50740	1.21464	**0.02302**
sg13g2_einvn_2	A	0.01860	0.00850	**0.00606**	0.32940	0.13710	**0.00700**	2.50740	0.60750	**0.01173**

Passive power(pJ) for A rising :

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

Passive power(pJ) for A falling :

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

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**-0.00877**	0.32940	**-0.01384**	2.50740	**0.00487**
sg13g2_einvn_2	0.01860	**-0.00446**	0.32940	**-0.00607**	2.50740	**0.00373**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00877**	0.32940	**0.01965**	2.50740	**0.03917**
sg13g2_einvn_2	0.01860	**0.00446**	0.32940	**0.00993**	2.50740	**0.02003**

GCLK

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

INPUT		OUTPUT
GATE	CLK	GCLK
x	0	0
x	1	GCLK

Footprint

Cell Name	Area
sg13g2_lgcp_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	GATE	CLK	GCLK
sg13g2_lgcp_1	0.00234	0.00488	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	2605.75000	2864.03000	3045.12000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_lgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.07199**	0.32940	0.06480	**0.33813**	2.50740	0.30000	**1.21440**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_lgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.06065**	0.32940	0.06480	**0.32141**	2.50740	0.30000	**1.13025**

Constraint Information

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_lgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.03636**	1.26300	1.26300	**-0.15920**	2.50740	2.50740	**-0.26037**
	setup	CLK (R)	0.01860	0.01860	**0.06193**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.37358**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_lgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.01877**	1.26300	1.26300	**-0.01619**	2.50740	2.50740	**-0.02814**
	setup	CLK (R)	0.01860	0.01860	**0.04389**	1.26300	1.26300	**0.06206**	2.50740	2.50740	**0.08618**

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_lgcp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.01276**	0.32940	0.06480	**0.01327**	2.50740	0.30000	**0.02625**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.00996**	0.32940	0.06480	**0.01113**	2.50740	0.30000	**0.02462**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.02289**	0.32940	**0.02555**	2.50740	**0.03949**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.01195**	0.32940	**0.03603**	2.50740	**0.05032**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	!CLK	0.01860	**0.02289**	0.32940	**0.02555**	2.50740	**0.03949**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	!CLK	0.01860	**0.01195**	0.32940	**0.03603**	2.50740	**0.05032**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00670**	0.32940	**0.00778**	2.50740	**0.02522**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00799**	0.32940	**0.00911**	2.50740	**0.02684**

INx

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_16	0.04530	4.80000
sg13g2_inv_8	0.02210	2.40000
sg13g2_inv_4	0.01105	1.20000
sg13g2_inv_2	0.00554	0.60000
sg13g2_inv_1	0.00283	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	3291.04000	7731.67000	12172.30000
sg13g2_inv_8	1645.52000	3865.86000	6086.21000
sg13g2_inv_4	822.76400	1932.92000	3043.07000
sg13g2_inv_2	411.38200	966.45100	1521.52000
sg13g2_inv_1	205.87300	483.32600	760.77900

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.01668**	0.32940	1.03680	**0.35134**	2.50740	4.80000	**2.00385**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01655**	0.32940	0.51840	**0.35106**	2.50740	2.40000	**2.00202**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01697**	0.32940	0.25920	**0.35058**	2.50740	1.20000	**2.00157**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01811**	0.32940	0.12960	**0.35041**	2.50740	0.60000	**1.99904**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.02076**	0.32940	0.06480	**0.35121**	2.50740	0.30000	**1.99953**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.01599**	0.32940	1.03680	**0.32547**	2.50740	4.80000	**1.86179**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01591**	0.32940	0.51840	**0.32610**	2.50740	2.40000	**1.86296**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01627**	0.32940	0.25920	**0.32549**	2.50740	1.20000	**1.86217**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01729**	0.32940	0.12960	**0.32448**	2.50740	0.60000	**1.85419**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01983**	0.32940	0.06480	**0.32517**	2.50740	0.30000	**1.85500**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02702**	0.32940	1.03680	**0.03294**	2.50740	4.80000	**0.10323**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01288**	0.32940	0.51840	**0.01610**	2.50740	2.40000	**0.04985**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00646**	0.32940	0.25920	**0.00787**	2.50740	1.20000	**0.02651**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00326**	0.32940	0.12960	**0.00400**	2.50740	0.60000	**0.01283**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00193**	0.32940	0.06480	**0.00221**	2.50740	0.30000	**0.00657**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02431**	0.32940	1.03680	**0.03148**	2.50740	4.80000	**0.09861**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01165**	0.32940	0.51840	**0.01605**	2.50740	2.40000	**0.04853**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00588**	0.32940	0.25920	**0.00778**	2.50740	1.20000	**0.02399**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00306**	0.32940	0.12960	**0.00390**	2.50740	0.60000	**0.01150**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00205**	0.32940	0.06480	**0.00237**	2.50740	0.30000	**0.00620**

ITL

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_8	39.91680

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_8	0.01540	0.01544	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	2193.61000	4413.88000	6634.15000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (FR)	0.01860	0.01992	**0.02418**	0.32940	0.53732	**0.53448**	2.50740	2.41892	**2.80756**
	TE_B->Z (RR)	0.01860	0.01992	**0.07074**	0.32940	0.53732	**0.16700**	2.50740	2.41892	**0.35982**
	TE_B->Z (FR)	0.01860	0.01992	**0.03256**	0.32940	0.53732	**0.51958**	2.50740	2.41892	**2.58498**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (RF)	0.01860	0.03006	**0.02298**	0.32940	0.54746	**0.43213**	2.50740	2.42906	**2.35023**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.01992	**0.02392**	0.32940	0.53732	**0.02618**	2.50740	2.41892	**0.05330**
	TE_B	0.01860	0.01992	**0.05714**	0.32940	0.53732	**0.03645**	2.50740	2.41892	**0.03076**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.03006	**0.02277**	0.32940	0.54746	**0.02754**	2.50740	2.42906	**0.04554**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**-0.01371**	0.32940	**-0.03360**	2.50740	**-0.01982**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.01371**	0.32940	**0.03360**	2.50740	**0.05225**

KEEPSTATE

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

INPUT	OUTPUT
SH	SH
x	-

Footprint

Cell Name	Area
sg13g2_sighold	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	SH	SH
sg13g2_sighold	0.00000	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	290.17600	312.01100	333.84700

Passive Power Information

Passive power(pJ) for SH rising :

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

Passive power(pJ) for SH falling :

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

MUX2x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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_2	19.95840
sg13g2_mux2_1	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_2	0.00206	0.00218	0.00499	0.60000
sg13g2_mux2_1	0.00206	0.00218	0.00499	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_2	1619.01000	2163.27000	2560.34000
sg13g2_mux2_1	1203.82000	1680.13000	2354.83000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_2	A0->X (RR)	0.01860	0.00100	**0.08980**	0.32940	0.12960	**0.39142**	2.50740	0.60000	**1.30819**
	A1->X (RR)	0.01860	0.00100	**0.04963**	0.32940	0.12960	**0.39080**	2.50740	0.60000	**1.31877**
	S->X (-R)	0.01860	0.00100	**0.09271**	0.32940	0.12960	**0.38622**	2.50740	0.60000	**1.30314**
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.07304**	0.32940	0.06480	**0.35477**	2.50740	0.30000	**1.23365**
	A1->X (RR)	0.01860	0.00100	**0.05098**	0.32940	0.06480	**0.35932**	2.50740	0.30000	**1.24816**
	S->X (-R)	0.01860	0.00100	**0.08137**	0.32940	0.06480	**0.35697**	2.50740	0.30000	**1.23845**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_2	A0->X (FF)	0.01860	0.00100	**0.05381**	0.32940	0.12960	**0.42292**	2.50740	0.60000	**1.35604**
	A1->X (FF)	0.01860	0.00100	**0.11578**	0.32940	0.12960	**0.42774**	2.50740	0.60000	**1.36386**
	S->X (-F)	0.01860	0.00100	**0.12782**	0.32940	0.12960	**0.41122**	2.50740	0.60000	**1.29572**
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.05506**	0.32940	0.06480	**0.37809**	2.50740	0.30000	**1.26952**
	A1->X (FF)	0.01860	0.00100	**0.09682**	0.32940	0.06480	**0.38342**	2.50740	0.30000	**1.28106**
	S->X (-F)	0.01860	0.00100	**0.10819**	0.32940	0.06480	**0.37000**	2.50740	0.30000	**1.21978**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_2	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.09271**	0.32940	0.12960	**0.38622**	2.50740	0.60000	**1.30314**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.12982**	0.32940	0.12960	**0.41095**	2.50740	0.60000	**1.25540**
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.08137**	0.32940	0.06480	**0.35697**	2.50740	0.30000	**1.23845**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.11834**	0.32940	0.06480	**0.38993**	2.50740	0.30000	**1.23020**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.12782**	0.32940	0.12960	**0.41122**	2.50740	0.60000	**1.29572**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.16065**	0.32940	0.12960	**0.43276**	2.50740	0.60000	**1.19249**
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.10819**	0.32940	0.06480	**0.37000**	2.50740	0.30000	**1.21978**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.14098**	0.32940	0.06480	**0.39781**	2.50740	0.30000	**1.15491**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_2	A0	0.01860	0.00100	**0.01616**	0.32940	0.12960	**0.01657**	2.50740	0.60000	**0.03173**
	A1	0.01860	0.00100	**0.01565**	0.32940	0.12960	**0.02403**	2.50740	0.60000	**0.04096**
	S	0.01860	0.00100	**0.01709**	0.32940	0.12960	**0.01794**	2.50740	0.60000	**0.03126**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01245**	0.32940	0.06480	**0.01326**	2.50740	0.30000	**0.02847**
	A1	0.01860	0.00100	**0.01099**	0.32940	0.06480	**0.01684**	2.50740	0.30000	**0.03201**
	S	0.01860	0.00100	**0.01231**	0.32940	0.06480	**0.01309**	2.50740	0.30000	**0.02706**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_2	A0	0.01860	0.00100	**0.01551**	0.32940	0.12960	**0.02502**	2.50740	0.60000	**0.03887**
	A1	0.01860	0.00100	**0.01792**	0.32940	0.12960	**0.01789**	2.50740	0.60000	**0.03088**
	S	0.01860	0.00100	**0.01685**	0.32940	0.12960	**0.01707**	2.50740	0.60000	**0.03091**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01046**	0.32940	0.06480	**0.01725**	2.50740	0.30000	**0.03304**
	A1	0.01860	0.00100	**0.01239**	0.32940	0.06480	**0.01326**	2.50740	0.30000	**0.02819**
	S	0.01860	0.00100	**0.01165**	0.32940	0.06480	**0.01242**	2.50740	0.30000	**0.02729**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.01692**	0.32940	0.12960	**0.01722**	2.50740	0.60000	**0.01797**
	S	(!A0 * A1)	0.01860	0.00100	**0.01709**	0.32940	0.12960	**0.01794**	2.50740	0.60000	**0.03126**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01210**	0.32940	0.06480	**0.01229**	2.50740	0.30000	**0.01276**
	S	(!A0 * A1)	0.01860	0.00100	**0.01231**	0.32940	0.06480	**0.01309**	2.50740	0.30000	**0.02706**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.01796**	0.32940	0.12960	**0.01755**	2.50740	0.60000	**0.01926**
	S	(!A0 * A1)	0.01860	0.00100	**0.01685**	0.32940	0.12960	**0.01707**	2.50740	0.60000	**0.03091**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01271**	0.32940	0.06480	**0.01282**	2.50740	0.30000	**0.01290**
	S	(!A0 * A1)	0.01860	0.00100	**0.01165**	0.32940	0.06480	**0.01242**	2.50740	0.30000	**0.02729**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00464**	0.32940	**0.00544**	2.50740	**0.01930**
sg13g2_mux2_1	0.01860	**0.00464**	0.32940	**0.00544**	2.50740	**0.01930**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00507**	0.32940	**0.00587**	2.50740	**0.01956**
sg13g2_mux2_1	0.01860	**0.00507**	0.32940	**0.00587**	2.50740	**0.01956**

MUX4

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00276	0.00274	0.00276	0.00285	0.00800	0.00497	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	1583.45000	3711.46000	5416.66000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.13570**	0.32940	0.06480	**0.43632**	2.50740	0.30000	**1.41505**
	A1->X (RR)	0.01860	0.00100	**0.13222**	0.32940	0.06480	**0.43397**	2.50740	0.30000	**1.41198**
	A2->X (RR)	0.01860	0.00100	**0.14150**	0.32940	0.06480	**0.44585**	2.50740	0.30000	**1.43739**
	A3->X (RR)	0.01860	0.00100	**0.13828**	0.32940	0.06480	**0.44385**	2.50740	0.30000	**1.43478**
	S0->X (-R)	0.01860	0.00100	**0.11980**	0.32940	0.06480	**0.43354**	2.50740	0.30000	**1.41418**
	S1->X (-R)	0.01860	0.00100	**0.06800**	0.32940	0.06480	**0.35374**	2.50740	0.30000	**1.23290**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.15639**	0.32940	0.06480	**0.44464**	2.50740	0.30000	**1.30924**
	A1->X (FF)	0.01860	0.00100	**0.15696**	0.32940	0.06480	**0.44494**	2.50740	0.30000	**1.31403**
	A2->X (FF)	0.01860	0.00100	**0.16754**	0.32940	0.06480	**0.45930**	2.50740	0.30000	**1.33999**
	A3->X (FF)	0.01860	0.00100	**0.16699**	0.32940	0.06480	**0.45921**	2.50740	0.30000	**1.33841**
	S0->X (-F)	0.01860	0.00100	**0.14543**	0.32940	0.06480	**0.45270**	2.50740	0.30000	**1.36344**
	S1->X (-F)	0.01860	0.00100	**0.08290**	0.32940	0.06480	**0.36203**	2.50740	0.30000	**1.20510**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.11980**	0.32940	0.06480	**0.43354**	2.50740	0.30000	**1.41418**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.11208**	0.32940	0.06480	**0.41927**	2.50740	0.30000	**1.38031**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.17660**	0.32940	0.06480	**0.47626**	2.50740	0.30000	**1.37256**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.17068**	0.32940	0.06480	**0.46791**	2.50740	0.30000	**1.35977**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.06812**	0.32940	0.06480	**0.35374**	2.50740	0.30000	**1.23278**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.06800**	0.32940	0.06480	**0.35374**	2.50740	0.30000	**1.23290**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.09295**	0.32940	0.06480	**0.37453**	2.50740	0.30000	**1.21369**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.09271**	0.32940	0.06480	**0.37445**	2.50740	0.30000	**1.21367**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.14543**	0.32940	0.06480	**0.45270**	2.50740	0.30000	**1.36344**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.13196**	0.32940	0.06480	**0.43210**	2.50740	0.30000	**1.32616**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.18979**	0.32940	0.06480	**0.48484**	2.50740	0.30000	**1.29862**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.18001**	0.32940	0.06480	**0.47058**	2.50740	0.30000	**1.28013**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.08290**	0.32940	0.06480	**0.36203**	2.50740	0.30000	**1.20510**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.08283**	0.32940	0.06480	**0.36172**	2.50740	0.30000	**1.20508**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.10208**	0.32940	0.06480	**0.37709**	2.50740	0.30000	**1.14120**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.10235**	0.32940	0.06480	**0.37715**	2.50740	0.30000	**1.14124**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0	0.01860	0.00100	**0.01648**	0.32940	0.06480	**0.01655**	2.50740	0.30000	**0.02887**
	A1	0.01860	0.00100	**0.02242**	0.32940	0.06480	**0.02248**	2.50740	0.30000	**0.03496**
	A2	0.01860	0.00100	**0.01565**	0.32940	0.06480	**0.01567**	2.50740	0.30000	**0.02698**
	A3	0.01860	0.00100	**0.01664**	0.32940	0.06480	**0.01663**	2.50740	0.30000	**0.02816**
	S0	0.01860	0.00100	**0.01153**	0.32940	0.06480	**0.01216**	2.50740	0.30000	**0.02683**
	S1	0.01860	0.00100	**0.00923**	0.32940	0.06480	**0.01064**	2.50740	0.30000	**0.01924**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0	0.01860	0.00100	**0.02271**	0.32940	0.06480	**0.02275**	2.50740	0.30000	**0.03504**
	A1	0.01860	0.00100	**0.02294**	0.32940	0.06480	**0.02295**	2.50740	0.30000	**0.03459**
	A2	0.01860	0.00100	**0.02441**	0.32940	0.06480	**0.02435**	2.50740	0.30000	**0.03635**
	A3	0.01860	0.00100	**0.02369**	0.32940	0.06480	**0.02369**	2.50740	0.30000	**0.03562**
	S0	0.01860	0.00100	**0.01920**	0.32940	0.06480	**0.02651**	2.50740	0.30000	**0.01561**
	S1	0.01860	0.00100	**0.00652**	0.32940	0.06480	**0.00738**	2.50740	0.30000	**0.02018**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.02268**	0.32940	0.06480	**0.01330**	2.50740	0.30000	**0.00127**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02262**	0.32940	0.06480	**0.01328**	2.50740	0.30000	**0.00075**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01157**	0.32940	0.06480	**0.01233**	2.50740	0.30000	**0.02645**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01153**	0.32940	0.06480	**0.01216**	2.50740	0.30000	**0.02683**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00923**	0.32940	0.06480	**0.01064**	2.50740	0.30000	**0.01924**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00964**	0.32940	0.06480	**0.01106**	2.50740	0.30000	**0.01966**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00577**	0.32940	0.06480	**0.00652**	2.50740	0.30000	**0.01881**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00606**	0.32940	0.06480	**0.00681**	2.50740	0.30000	**0.01893**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.01920**	0.32940	0.06480	**0.02651**	2.50740	0.30000	**0.01561**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01860**	0.32940	0.06480	**0.02703**	2.50740	0.30000	**0.01444**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01212**	0.32940	0.06480	**0.01061**	2.50740	0.30000	**0.02395**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01079**	0.32940	0.06480	**0.01112**	2.50740	0.30000	**0.02553**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01058**	0.32940	0.06480	**0.01189**	2.50740	0.30000	**0.02040**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01069**	0.32940	0.06480	**0.01199**	2.50740	0.30000	**0.02047**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00652**	0.32940	0.06480	**0.00738**	2.50740	0.30000	**0.02018**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00565**	0.32940	0.06480	**0.00651**	2.50740	0.30000	**0.01900**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01014**	0.32940	**0.01184**	2.50740	**0.04267**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00836**	0.32940	**0.01818**	2.50740	**0.04885**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00952**	0.32940	**0.01142**	2.50740	**0.04269**
	(A0 * A1 * !S1)	0.01860	**0.01014**	0.32940	**0.01184**	2.50740	**0.04267**
	(!A2 * !A3 * S1)	0.01860	**0.00977**	0.32940	**0.01181**	2.50740	**0.04306**
	(!A0 * !A1 * !S1)	0.01860	**0.01100**	0.32940	**0.01284**	2.50740	**0.04364**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00766**	0.32940	**0.01563**	2.50740	**0.04671**
	(A0 * A1 * !S1)	0.01860	**0.00836**	0.32940	**0.01818**	2.50740	**0.04885**
	(!A2 * !A3 * S1)	0.01860	**0.01519**	0.32940	**0.01575**	2.50740	**0.03233**
	(!A0 * !A1 * !S1)	0.01860	**0.01325**	0.32940	**0.02443**	2.50740	**0.04103**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00497**	0.32940	**0.00638**	2.50740	**0.02356**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00482**	0.32940	**0.00622**	2.50740	**0.02324**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00376**	0.32940	**0.00502**	2.50740	**0.02224**
	(A0 * A2 * !S0)	0.01860	**0.00377**	0.32940	**0.00502**	2.50740	**0.02224**
	(!A1 * !A3 * S0)	0.01860	**0.00497**	0.32940	**0.00638**	2.50740	**0.02356**
	(!A0 * !A2 * !S0)	0.01860	**0.00503**	0.32940	**0.00644**	2.50740	**0.02361**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00364**	0.32940	**0.00520**	2.50740	**0.02222**
	(A0 * A2 * !S0)	0.01860	**0.00363**	0.32940	**0.00521**	2.50740	**0.02222**
	(!A1 * !A3 * S0)	0.01860	**0.00482**	0.32940	**0.00622**	2.50740	**0.02324**
	(!A0 * !A2 * !S0)	0.01860	**0.00487**	0.32940	**0.00628**	2.50740	**0.02330**

NAND2B1

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00229	0.00309	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	330.12200	860.14200	1660.53000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.05190**	0.32940	0.06480	**0.32069**	2.50740	0.30000	**1.19438**
	B->Y (FR)	0.01860	0.00100	**0.02539**	0.32940	0.06480	**0.35686**	2.50740	0.30000	**2.00646**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.06220**	0.32940	0.06480	**0.41733**	2.50740	0.30000	**1.59222**
	B->Y (RF)	0.01860	0.00100	**0.03693**	0.32940	0.06480	**0.42335**	2.50740	0.30000	**2.20179**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00254**	0.32940	0.06480	**0.00261**	2.50740	0.30000	**0.00182**
	B	0.01860	0.00100	**0.00221**	0.32940	0.06480	**0.00221**	2.50740	0.30000	**0.00602**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00526**	0.32940	0.06480	**0.00533**	2.50740	0.30000	**0.00500**
	B	0.01860	0.00100	**0.00534**	0.32940	0.06480	**0.00535**	2.50740	0.30000	**0.00727**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00485**	0.32940	**0.00580**	2.50740	**0.01996**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00276**	0.32940	**0.00376**	2.50740	**0.01761**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00485**	0.32940	**0.00580**	2.50740	**0.01996**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00276**	0.32940	**0.00376**	2.50740	**0.01761**

NAND2B2

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_2	0.00218	0.00529	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_2	585.23200	1357.38000	3178.72000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_2	A_N->Y (RR)	0.01860	0.00100	**0.06882**	0.32940	0.12960	**0.35930**	2.50740	0.60000	**1.28045**
	B->Y (FR)	0.01860	0.00100	**0.01966**	0.32940	0.12960	**0.35247**	2.50740	0.60000	**2.00023**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_2	A_N->Y (FF)	0.01860	0.00100	**0.08445**	0.32940	0.12960	**0.47928**	2.50740	0.60000	**1.75770**
	B->Y (RF)	0.01860	0.00100	**0.02736**	0.32940	0.12960	**0.44267**	2.50740	0.60000	**2.39155**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.00493**	0.32940	0.12960	**0.00483**	2.50740	0.60000	**0.00491**
	B	0.01860	0.00100	**0.00595**	0.32940	0.12960	**0.00654**	2.50740	0.60000	**0.01402**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.01096**	0.32940	0.12960	**0.01132**	2.50740	0.60000	**0.01139**
	B	0.01860	0.00100	**0.00837**	0.32940	0.12960	**0.00879**	2.50740	0.60000	**0.01484**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_2	0.01860	**0.00818**	0.32940	**0.00870**	2.50740	**0.02170**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_2	0.01860	**0.00724**	0.32940	**0.00801**	2.50740	**0.02090**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_2	!B	0.01860	**0.00818**	0.32940	**0.00870**	2.50740	**0.02170**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_2	!B	0.01860	**0.00724**	0.32940	**0.00801**	2.50740	**0.02090**

NAND2x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2_2	10.88640
sg13g2_nand2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_2	0.00547	0.00565	0.60000
sg13g2_nand2_1	0.00289	0.00298	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_2	155.96400	1003.00000	3039.72000
sg13g2_nand2_1	79.47220	505.72300	1521.46000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_2	A->Y (FR)	0.01860	0.00100	**0.02053**	0.32940	0.12960	**0.35341**	2.50740	0.60000	**2.00085**
	B->Y (FR)	0.01860	0.00100	**0.02450**	0.32940	0.12960	**0.35742**	2.50740	0.60000	**2.00736**
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.02265**	0.32940	0.06480	**0.35304**	2.50740	0.30000	**1.99993**
	B->Y (FR)	0.01860	0.00100	**0.02621**	0.32940	0.06480	**0.35658**	2.50740	0.30000	**2.00513**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_2	A->Y (RF)	0.01860	0.00100	**0.02664**	0.32940	0.12960	**0.44208**	2.50740	0.60000	**2.39119**
	B->Y (RF)	0.01860	0.00100	**0.03279**	0.32940	0.12960	**0.43311**	2.50740	0.60000	**2.25654**
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.02920**	0.32940	0.06480	**0.43094**	2.50740	0.30000	**2.33399**
	B->Y (RF)	0.01860	0.00100	**0.03392**	0.32940	0.06480	**0.42050**	2.50740	0.30000	**2.20163**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_2	**A**	0.01860	0.00100	**0.00370**	0.32940	0.12960	**0.00444**	2.50740	0.60000	**0.01122**
	B	0.01860	0.00100	**0.00500**	0.32940	0.12960	**0.00498**	2.50740	0.60000	**0.01226**
sg13g2_nand2_1	**A**	0.01860	0.00100	**0.00207**	0.32940	0.06480	**0.00231**	2.50740	0.30000	**0.00609**
	B	0.01860	0.00100	**0.00224**	0.32940	0.06480	**0.00222**	2.50740	0.30000	**0.00600**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_2	**A**	0.01860	0.00100	**0.00560**	0.32940	0.12960	**0.00610**	2.50740	0.60000	**0.01223**
	B	0.01860	0.00100	**0.00972**	0.32940	0.12960	**0.00970**	2.50740	0.60000	**0.01362**
sg13g2_nand2_1	**A**	0.01860	0.00100	**0.00302**	0.32940	0.06480	**0.00323**	2.50740	0.30000	**0.00607**
	B	0.01860	0.00100	**0.00513**	0.32940	0.06480	**0.00512**	2.50740	0.30000	**0.00737**

NAND3B1

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00298	0.00298	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	221.51500	766.50000	2421.24000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.05524**	0.32940	0.06480	**0.32252**	2.50740	0.30000	**1.19310**
	B->Y (FR)	0.01860	0.00100	**0.02907**	0.32940	0.06480	**0.36071**	2.50740	0.30000	**2.00862**
	C->Y (FR)	0.01860	0.00100	**0.03176**	0.32940	0.06480	**0.36442**	2.50740	0.30000	**2.01288**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.07590**	0.32940	0.06480	**0.54246**	2.50740	0.30000	**2.13251**
	B->Y (RF)	0.01860	0.00100	**0.05609**	0.32940	0.06480	**0.55064**	2.50740	0.30000	**2.72578**
	C->Y (RF)	0.01860	0.00100	**0.06200**	0.32940	0.06480	**0.54131**	2.50740	0.30000	**2.57564**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00277**	0.32940	0.06480	**0.00276**	2.50740	0.30000	**0.00205**
	B	0.01860	0.00100	**0.00280**	0.32940	0.06480	**0.00280**	2.50740	0.30000	**0.00601**
	C	0.01860	0.00100	**0.00325**	0.32940	0.06480	**0.00311**	2.50740	0.30000	**0.00627**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00709**	0.32940	0.06480	**0.00715**	2.50740	0.30000	**0.00639**
	B	0.01860	0.00100	**0.00691**	0.32940	0.06480	**0.00680**	2.50740	0.30000	**0.00879**
	C	0.01860	0.00100	**0.00902**	0.32940	0.06480	**0.00888**	2.50740	0.30000	**0.01097**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00491**	0.32940	**0.00590**	2.50740	**0.02005**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00257**	0.32940	**0.00357**	2.50740	**0.01742**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00491**	0.32940	**0.00590**	2.50740	**0.02005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00257**	0.32940	**0.00357**	2.50740	**0.01742**

NAND3

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00275	0.00290	0.00287	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	79.76510	412.19300	2282.31000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3_1	A->Y (FR)	0.01860	0.00100	**0.02591**	0.32940	0.06480	**0.35649**	2.50740	0.30000	**2.00390**
	B->Y (FR)	0.01860	0.00100	**0.02982**	0.32940	0.06480	**0.36075**	2.50740	0.30000	**2.00859**
	C->Y (FR)	0.01860	0.00100	**0.03200**	0.32940	0.06480	**0.36445**	2.50740	0.30000	**2.01277**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3_1	A->Y (RF)	0.01860	0.00100	**0.04321**	0.32940	0.06480	**0.54767**	2.50740	0.30000	**2.80265**
	B->Y (RF)	0.01860	0.00100	**0.05254**	0.32940	0.06480	**0.54793**	2.50740	0.30000	**2.72363**
	C->Y (RF)	0.01860	0.00100	**0.05725**	0.32940	0.06480	**0.53644**	2.50740	0.30000	**2.57088**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3_1	A	0.01860	0.00100	**0.00254**	0.32940	0.06480	**0.00273**	2.50740	0.30000	**0.00595**
	B	0.01860	0.00100	**0.00281**	0.32940	0.06480	**0.00278**	2.50740	0.30000	**0.00603**
	C	0.01860	0.00100	**0.00327**	0.32940	0.06480	**0.00312**	2.50740	0.30000	**0.00628**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3_1	A	0.01860	0.00100	**0.00456**	0.32940	0.06480	**0.00461**	2.50740	0.30000	**0.00723**
	B	0.01860	0.00100	**0.00671**	0.32940	0.06480	**0.00662**	2.50740	0.30000	**0.00862**
	C	0.01860	0.00100	**0.00852**	0.32940	0.06480	**0.00842**	2.50740	0.30000	**0.01060**

NAND4

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00273	0.00286	0.00287	0.00287	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	82.11500	314.77800	3043.00000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand4_1	A->Y (FR)	0.01860	0.00100	**0.02712**	0.32940	0.06480	**0.35784**	2.50740	0.30000	**2.00447**
	B->Y (FR)	0.01860	0.00100	**0.03139**	0.32940	0.06480	**0.36219**	2.50740	0.30000	**2.00903**
	C->Y (FR)	0.01860	0.00100	**0.03375**	0.32940	0.06480	**0.36643**	2.50740	0.30000	**2.01454**
	D->Y (FR)	0.01860	0.00100	**0.03455**	0.32940	0.06480	**0.36962**	2.50740	0.30000	**2.01887**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand4_1	A->Y (RF)	0.01860	0.00100	**0.05491**	0.32940	0.06480	**0.66641**	2.50740	0.30000	**3.28665**
	B->Y (RF)	0.01860	0.00100	**0.06913**	0.32940	0.06480	**0.67352**	2.50740	0.30000	**3.24005**
	C->Y (RF)	0.01860	0.00100	**0.07749**	0.32940	0.06480	**0.66834**	2.50740	0.30000	**3.11598**
	D->Y (RF)	0.01860	0.00100	**0.08178**	0.32940	0.06480	**0.66236**	2.50740	0.30000	**2.99612**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand4_1	A	0.01860	0.00100	**0.00243**	0.32940	0.06480	**0.00264**	2.50740	0.30000	**0.00556**
	B	0.01860	0.00100	**0.00284**	0.32940	0.06480	**0.00279**	2.50740	0.30000	**0.00565**
	C	0.01860	0.00100	**0.00325**	0.32940	0.06480	**0.00309**	2.50740	0.30000	**0.00589**
	D	0.01860	0.00100	**0.00354**	0.32940	0.06480	**0.00334**	2.50740	0.30000	**0.00618**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand4_1	A	0.01860	0.00100	**0.00548**	0.32940	0.06480	**0.00554**	2.50740	0.30000	**0.00784**
	B	0.01860	0.00100	**0.00763**	0.32940	0.06480	**0.00749**	2.50740	0.30000	**0.00931**
	C	0.01860	0.00100	**0.00948**	0.32940	0.06480	**0.00931**	2.50740	0.30000	**0.01114**
	D	0.01860	0.00100	**0.01129**	0.32940	0.06480	**0.01110**	2.50740	0.30000	**0.01295**

NOR2Bx

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2b_2	12.70080
sg13g2_nor2b_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B_N	Y
sg13g2_nor2b_2	0.00557	0.00266	0.60000
sg13g2_nor2b_1	0.00288	0.00225	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_2	982.85400	1706.27000	2233.97000
sg13g2_nor2b_1	546.91200	999.46600	1348.18000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2b_2	A->Y (FR)	0.01860	0.00100	**0.03034**	0.32940	0.12960	**0.53652**	2.50740	0.60000	**2.79625**
	B_N->Y (RR)	0.01860	0.00100	**0.07826**	0.32940	0.12960	**0.55655**	2.50740	0.60000	**2.16334**
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.03515**	0.32940	0.06480	**0.53780**	2.50740	0.30000	**2.79971**
	B_N->Y (RR)	0.01860	0.00100	**0.07161**	0.32940	0.06480	**0.53159**	2.50740	0.30000	**2.10015**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2b_2	A->Y (RF)	0.01860	0.00100	**0.01989**	0.32940	0.12960	**0.33376**	2.50740	0.60000	**1.89832**
	B_N->Y (FF)	0.01860	0.00100	**0.06994**	0.32940	0.12960	**0.34078**	2.50740	0.60000	**1.16384**
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.02153**	0.32940	0.06480	**0.32719**	2.50740	0.30000	**1.85470**
	B_N->Y (FF)	0.01860	0.00100	**0.05931**	0.32940	0.06480	**0.30666**	2.50740	0.30000	**1.08015**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00523**	0.32940	0.12960	**0.00573**	2.50740	0.60000	**0.01115**
	B_N	0.01860	0.00100	**0.01155**	0.32940	0.12960	**0.01164**	2.50740	0.60000	**0.01127**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00263**	0.32940	0.06480	**0.00282**	2.50740	0.30000	**0.00573**
	B_N	0.01860	0.00100	**0.00600**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.00549**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00378**	0.32940	0.12960	**0.00457**	2.50740	0.60000	**0.01101**
	B_N	0.01860	0.00100	**0.00564**	0.32940	0.12960	**0.00559**	2.50740	0.60000	**0.00550**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00242**	0.32940	0.06480	**0.00273**	2.50740	0.30000	**0.00574**
	B_N	0.01860	0.00100	**0.00305**	0.32940	0.06480	**0.00295**	2.50740	0.30000	**0.00259**

Passive power(pJ) for B_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor2b_2	0.01860	**0.00779**	0.32940	**0.00868**	2.50740	**0.02479**
sg13g2_nor2b_1	0.01860	**0.00450**	0.32940	**0.00535**	2.50740	**0.01928**

Passive power(pJ) for B_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor2b_2	0.01860	**0.00772**	0.32940	**0.00861**	2.50740	**0.02436**
sg13g2_nor2b_1	0.01860	**0.00457**	0.32940	**0.00544**	2.50740	**0.01913**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor2b_2	**A**	0.01860	**0.00779**	0.32940	**0.00868**	2.50740	**0.02479**
sg13g2_nor2b_1	**A**	0.01860	**0.00450**	0.32940	**0.00535**	2.50740	**0.01928**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor2b_2	**A**	0.01860	**0.00772**	0.32940	**0.00861**	2.50740	**0.02436**
sg13g2_nor2b_1	**A**	0.01860	**0.00457**	0.32940	**0.00544**	2.50740	**0.01913**

NOR2x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2_2	10.88640
sg13g2_nor2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_2	0.00575	0.00553	0.30000
sg13g2_nor2_1	0.00299	0.00287	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_2	815.94400	1290.27000	1965.37000
sg13g2_nor2_1	407.95300	645.13900	982.70900

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_2	A->Y (FR)	0.01860	0.00100	**0.03923**	0.32940	0.06480	**0.32880**	2.50740	0.30000	**1.65409**
	B->Y (FR)	0.01860	0.00100	**0.03069**	0.32940	0.06480	**0.34461**	2.50740	0.30000	**1.85538**
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.04188**	0.32940	0.06480	**0.52048**	2.50740	0.30000	**2.60077**
	B->Y (FR)	0.01860	0.00100	**0.03532**	0.32940	0.06480	**0.53745**	2.50740	0.30000	**2.79808**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_2	A->Y (RF)	0.01860	0.00100	**0.02309**	0.32940	0.06480	**0.23746**	2.50740	0.30000	**1.28246**
	B->Y (RF)	0.01860	0.00100	**0.01965**	0.32940	0.06480	**0.23092**	2.50740	0.30000	**1.27205**
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.02471**	0.32940	0.06480	**0.33007**	2.50740	0.30000	**1.85875**
	B->Y (RF)	0.01860	0.00100	**0.02160**	0.32940	0.06480	**0.32664**	2.50740	0.30000	**1.85464**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_2	**A**	0.01860	0.00100	**0.01072**	0.32940	0.06480	**0.01081**	2.50740	0.30000	**0.02089**
	B	0.01860	0.00100	**0.00535**	0.32940	0.06480	**0.00624**	2.50740	0.30000	**0.01711**
sg13g2_nor2_1	**A**	0.01860	0.00100	**0.00530**	0.32940	0.06480	**0.00521**	2.50740	0.30000	**0.00817**
	B	0.01860	0.00100	**0.00263**	0.32940	0.06480	**0.00281**	2.50740	0.30000	**0.00592**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_2	**A**	0.01860	0.00100	**0.00539**	0.32940	0.06480	**0.00602**	2.50740	0.30000	**0.01854**
	B	0.01860	0.00100	**0.00372**	0.32940	0.06480	**0.00511**	2.50740	0.30000	**0.01721**
sg13g2_nor2_1	**A**	0.01860	0.00100	**0.00264**	0.32940	0.06480	**0.00246**	2.50740	0.30000	**0.00574**
	B	0.01860	0.00100	**0.00241**	0.32940	0.06480	**0.00264**	2.50740	0.30000	**0.00573**

NOR3x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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_2	16.32960
sg13g2_nor3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_2	0.00571	0.00566	0.00548	0.60000
sg13g2_nor3_1	0.00301	0.00301	0.00287	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_2	762.66500	1487.97000	2547.71000
sg13g2_nor3_1	385.23600	750.30400	1275.16000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_2	A->Y (FR)	0.01860	0.00100	**0.06982**	0.32940	0.12960	**0.72801**	2.50740	0.60000	**3.31942**
	B->Y (FR)	0.01860	0.00100	**0.06469**	0.32940	0.12960	**0.74114**	2.50740	0.60000	**3.52053**
	C->Y (FR)	0.01860	0.00100	**0.04580**	0.32940	0.12960	**0.73745**	2.50740	0.60000	**3.63992**
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.07654**	0.32940	0.06480	**0.72691**	2.50740	0.30000	**3.31141**
	B->Y (FR)	0.01860	0.00100	**0.07167**	0.32940	0.06480	**0.74011**	2.50740	0.30000	**3.51066**
	C->Y (FR)	0.01860	0.00100	**0.05551**	0.32940	0.06480	**0.73913**	2.50740	0.30000	**3.63180**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_2	A->Y (RF)	0.01860	0.00100	**0.02564**	0.32940	0.12960	**0.33711**	2.50740	0.60000	**1.86995**
	B->Y (RF)	0.01860	0.00100	**0.02557**	0.32940	0.12960	**0.33350**	2.50740	0.60000	**1.86450**
	C->Y (RF)	0.01860	0.00100	**0.02155**	0.32940	0.12960	**0.32844**	2.50740	0.60000	**1.85153**
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.02738**	0.32940	0.06480	**0.32916**	2.50740	0.30000	**1.82174**
	B->Y (RF)	0.01860	0.00100	**0.02707**	0.32940	0.06480	**0.32614**	2.50740	0.30000	**1.82072**
	C->Y (RF)	0.01860	0.00100	**0.02358**	0.32940	0.06480	**0.32244**	2.50740	0.30000	**1.81307**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_2	A	0.01860	0.00100	**0.01761**	0.32940	0.12960	**0.01735**	2.50740	0.60000	**0.02178**
	B	0.01860	0.00100	**0.01303**	0.32940	0.12960	**0.01276**	2.50740	0.60000	**0.01763**
	C	0.01860	0.00100	**0.00768**	0.32940	0.12960	**0.00804**	2.50740	0.60000	**0.01374**
sg13g2_nor3_1	A	0.01860	0.00100	**0.00909**	0.32940	0.06480	**0.00890**	2.50740	0.30000	**0.01109**
	B	0.01860	0.00100	**0.00680**	0.32940	0.06480	**0.00664**	2.50740	0.30000	**0.00894**
	C	0.01860	0.00100	**0.00421**	0.32940	0.06480	**0.00433**	2.50740	0.30000	**0.00706**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_2	A	0.01860	0.00100	**0.00674**	0.32940	0.12960	**0.00632**	2.50740	0.60000	**0.01204**
	B	0.01860	0.00100	**0.00602**	0.32940	0.12960	**0.00585**	2.50740	0.60000	**0.01164**
	C	0.01860	0.00100	**0.00411**	0.32940	0.12960	**0.00483**	2.50740	0.60000	**0.00891**
sg13g2_nor3_1	A	0.01860	0.00100	**0.00345**	0.32940	0.06480	**0.00320**	2.50740	0.30000	**0.00622**
	B	0.01860	0.00100	**0.00318**	0.32940	0.06480	**0.00299**	2.50740	0.30000	**0.00619**
	C	0.01860	0.00100	**0.00263**	0.32940	0.06480	**0.00289**	2.50740	0.30000	**0.00575**

NOR4x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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_2	21.77280
sg13g2_nor4_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_2	0.00566	0.00558	0.00490	0.00498	0.60000
sg13g2_nor4_1	0.00295	0.00294	0.00258	0.00259	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_2	778.34300	1449.31000	3123.72000
sg13g2_nor4_1	389.19900	724.66700	1561.86000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_2	A->Y (FR)	0.01860	0.00100	**0.11104**	0.32940	0.12960	**0.95919**	2.50740	0.60000	**4.14532**
	B->Y (FR)	0.01860	0.00100	**0.10632**	0.32940	0.12960	**0.96371**	2.50740	0.60000	**4.28782**
	C->Y (FR)	0.01860	0.00100	**0.09108**	0.32940	0.12960	**0.95976**	2.50740	0.60000	**4.43081**
	D->Y (FR)	0.01860	0.00100	**0.06101**	0.32940	0.12960	**0.94283**	2.50740	0.60000	**4.50416**
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.11648**	0.32940	0.06480	**0.95290**	2.50740	0.30000	**4.12585**
	B->Y (FR)	0.01860	0.00100	**0.11208**	0.32940	0.06480	**0.95786**	2.50740	0.30000	**4.27053**
	C->Y (FR)	0.01860	0.00100	**0.09815**	0.32940	0.06480	**0.95593**	2.50740	0.30000	**4.41250**
	D->Y (FR)	0.01860	0.00100	**0.07035**	0.32940	0.06480	**0.94093**	2.50740	0.30000	**4.48758**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_2	A->Y (RF)	0.01860	0.00100	**0.02697**	0.32940	0.12960	**0.34175**	2.50740	0.60000	**1.87409**
	B->Y (RF)	0.01860	0.00100	**0.02805**	0.32940	0.12960	**0.33940**	2.50740	0.60000	**1.87320**
	C->Y (RF)	0.01860	0.00100	**0.02727**	0.32940	0.12960	**0.33515**	2.50740	0.60000	**1.86576**
	D->Y (RF)	0.01860	0.00100	**0.02315**	0.32940	0.12960	**0.33053**	2.50740	0.60000	**1.85281**
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.02919**	0.32940	0.06480	**0.34152**	2.50740	0.30000	**1.87691**
	B->Y (RF)	0.01860	0.00100	**0.03020**	0.32940	0.06480	**0.33946**	2.50740	0.30000	**1.87468**
	C->Y (RF)	0.01860	0.00100	**0.02915**	0.32940	0.06480	**0.33559**	2.50740	0.30000	**1.86763**
	D->Y (RF)	0.01860	0.00100	**0.02507**	0.32940	0.06480	**0.33142**	2.50740	0.30000	**1.85624**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_2	A	0.01860	0.00100	**0.02381**	0.32940	0.12960	**0.02344**	2.50740	0.60000	**0.02694**
	B	0.01860	0.00100	**0.01950**	0.32940	0.12960	**0.01908**	2.50740	0.60000	**0.02231**
	C	0.01860	0.00100	**0.01548**	0.32940	0.12960	**0.01507**	2.50740	0.60000	**0.01854**
	D	0.01860	0.00100	**0.00828**	0.32940	0.12960	**0.00849**	2.50740	0.60000	**0.01322**
sg13g2_nor4_1	A	0.01860	0.00100	**0.01186**	0.32940	0.06480	**0.01165**	2.50740	0.30000	**0.01363**
	B	0.01860	0.00100	**0.00971**	0.32940	0.06480	**0.00944**	2.50740	0.30000	**0.01118**
	C	0.01860	0.00100	**0.00788**	0.32940	0.06480	**0.00765**	2.50740	0.30000	**0.00943**
	D	0.01860	0.00100	**0.00449**	0.32940	0.06480	**0.00454**	2.50740	0.30000	**0.00674**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_2	A	0.01860	0.00100	**0.00849**	0.32940	0.12960	**0.00806**	2.50740	0.60000	**0.01208**
	B	0.01860	0.00100	**0.00774**	0.32940	0.12960	**0.00745**	2.50740	0.60000	**0.01236**
	C	0.01860	0.00100	**0.00485**	0.32940	0.12960	**0.00468**	2.50740	0.60000	**0.00916**
	D	0.01860	0.00100	**0.00041**	0.32940	0.12960	**0.00125**	2.50740	0.60000	**0.00442**
sg13g2_nor4_1	A	0.01860	0.00100	**0.00417**	0.32940	0.06480	**0.00395**	2.50740	0.30000	**0.00614**
	B	0.01860	0.00100	**0.00392**	0.32940	0.06480	**0.00375**	2.50740	0.30000	**0.00617**
	C	0.01860	0.00100	**0.00257**	0.32940	0.06480	**0.00247**	2.50740	0.30000	**0.00481**
	D	0.01860	0.00100	**0.00057**	0.32940	0.06480	**0.00092**	2.50740	0.30000	**0.00276**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00002**	0.32940	**-0.00035**	2.50740	**-0.00036**
sg13g2_nor4_1	0.01860	**0.00011**	0.32940	**-0.00007**	2.50740	**-0.00007**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00032**	0.32940	**0.00035**	2.50740	**0.00036**
sg13g2_nor4_1	0.01860	**0.00005**	0.32940	**0.00007**	2.50740	**0.00007**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(!B * C) + (!B * !C * D)**	0.01860	**0.00002**	0.32940	**-0.00035**	2.50740	**-0.00036**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00011**	0.32940	**-0.00007**	2.50740	**-0.00007**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(!B * C) + (!B * !C * D)**	0.01860	**0.00032**	0.32940	**0.00035**	2.50740	**0.00036**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00005**	0.32940	**0.00007**	2.50740	**0.00007**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00010**	0.32940	**-0.00023**	2.50740	**-0.00024**
sg13g2_nor4_1	0.01860	**0.00018**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00019**	0.32940	**0.00023**	2.50740	**0.00024**
sg13g2_nor4_1	0.01860	**-0.00005**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(!A * C) + (!A * !C * D)**	0.01860	**0.00010**	0.32940	**-0.00023**	2.50740	**-0.00024**
sg13g2_nor4_1	**(!A * C) + (!A * !C * D)**	0.01860	**0.00018**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(!A * C) + (!A * !C * D)**	0.01860	**0.00019**	0.32940	**0.00023**	2.50740	**0.00024**
sg13g2_nor4_1	**(!A * C) + (!A * !C * D)**	0.01860	**-0.00005**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00132**	0.32940	**0.00135**	2.50740	**0.00137**
sg13g2_nor4_1	0.01860	**0.00086**	0.32940	**0.00088**	2.50740	**0.00088**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**-0.00028**	0.32940	**-0.00028**	2.50740	**-0.00027**
sg13g2_nor4_1	0.01860	**-0.00044**	0.32940	**-0.00044**	2.50740	**-0.00044**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(A * !D) + (!A * B * !D)**	0.01860	**0.00132**	0.32940	**0.00135**	2.50740	**0.00137**
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**0.00086**	0.32940	**0.00088**	2.50740	**0.00088**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00028**	0.32940	**-0.00028**	2.50740	**-0.00027**
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00044**	0.32940	**-0.00044**	2.50740	**-0.00044**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00387**	0.32940	**0.00389**	2.50740	**0.00389**
sg13g2_nor4_1	0.01860	**0.00210**	0.32940	**0.00211**	2.50740	**0.00211**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00159**	0.32940	**0.00165**	2.50740	**0.00169**
sg13g2_nor4_1	0.01860	**0.00036**	0.32940	**0.00038**	2.50740	**0.00040**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(A * !C) + (!A * B * !C)**	0.01860	**0.00387**	0.32940	**0.00389**	2.50740	**0.00389**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00210**	0.32940	**0.00211**	2.50740	**0.00211**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(A * !C) + (!A * B * !C)**	0.01860	**0.00159**	0.32940	**0.00165**	2.50740	**0.00169**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00036**	0.32940	**0.00038**	2.50740	**0.00040**

NP_ANT

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00119

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	5.54695	5.54695	5.54695

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**-0.00029**	0.32940	**-0.00029**	2.50740	**-0.00030**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00029**	0.32940	**0.00029**	2.50740	**0.00030**

O21AI

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00328	0.00330	0.00301	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	178.59200	778.47600	1640.47000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	A1->Y (FR)	0.01860	0.00100	**0.06762**	0.32940	0.06480	**0.61685**	2.50740	0.30000	**2.93598**
	A2->Y (FR)	0.01860	0.00100	**0.05905**	0.32940	0.06480	**0.63297**	2.50740	0.30000	**3.15270**
	B1->Y (FR)	0.01860	0.00100	**0.02669**	0.32940	0.06480	**0.39518**	2.50740	0.30000	**2.20905**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	A1->Y (RF)	0.01860	0.00100	**0.04805**	0.32940	0.06480	**0.44424**	2.50740	0.30000	**2.22301**
	A2->Y (RF)	0.01860	0.00100	**0.04019**	0.32940	0.06480	**0.43434**	2.50740	0.30000	**2.20961**
	B1->Y (RF)	0.01860	0.00100	**0.03998**	0.32940	0.06480	**0.45348**	2.50740	0.30000	**2.38273**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02669**	0.32940	0.06480	**0.39518**	2.50740	0.30000	**2.20905**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02592**	0.32940	0.06480	**0.39321**	2.50740	0.30000	**2.20429**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.03998**	0.32940	0.06480	**0.45348**	2.50740	0.30000	**2.38273**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03048**	0.32940	0.06480	**0.44153**	2.50740	0.30000	**2.36411**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00599**	0.32940	0.06480	**0.00589**	2.50740	0.30000	**0.00828**
	A2	0.01860	0.00100	**0.00315**	0.32940	0.06480	**0.00324**	2.50740	0.30000	**0.00589**
	B1	0.01860	0.00100	**0.00142**	0.32940	0.06480	**0.00162**	2.50740	0.30000	**0.00431**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00647**	0.32940	0.06480	**0.00618**	2.50740	0.30000	**0.00807**
	A2	0.01860	0.00100	**0.00598**	0.32940	0.06480	**0.00604**	2.50740	0.30000	**0.00776**
	B1	0.01860	0.00100	**0.00283**	0.32940	0.06480	**0.00311**	2.50740	0.30000	**0.00648**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00420**	0.32940	0.06480	**0.00439**	2.50740	0.30000	**0.00702**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00142**	0.32940	0.06480	**0.00162**	2.50740	0.30000	**0.00431**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00358**	0.32940	0.06480	**0.00362**	2.50740	0.30000	**0.00716**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00283**	0.32940	0.06480	**0.00311**	2.50740	0.30000	**0.00648**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**-0.00040**	0.32940	**-0.00039**	2.50740	**-0.00034**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00055**	0.32940	**0.00039**	2.50740	**0.00034**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A2 * !B1)**	0.01860	**-0.00040**	0.32940	**-0.00039**	2.50740	**-0.00034**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A2 * !B1)**	0.01860	**0.00055**	0.32940	**0.00039**	2.50740	**0.00034**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**-0.00033**	0.32940	**-0.00031**	2.50740	**-0.00027**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00045**	0.32940	**0.00031**	2.50740	**0.00027**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A1 * !B1)**	0.01860	**-0.00033**	0.32940	**-0.00031**	2.50740	**-0.00027**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A1 * !B1)**	0.01860	**0.00045**	0.32940	**0.00031**	2.50740	**0.00027**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00024**	0.32940	**0.00024**	2.50740	**0.00025**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00078**	0.32940	**0.00081**	2.50740	**0.00082**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A1 * !A2)**	0.01860	**0.00024**	0.32940	**0.00024**	2.50740	**0.00025**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A1 * !A2)**	0.01860	**0.00078**	0.32940	**0.00081**	2.50740	**0.00082**

OR2x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or2_2	10.88640
sg13g2_or2_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_2	0.00245	0.00226	0.60000
sg13g2_or2_1	0.00246	0.00228	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_2	714.59500	1163.57000	1799.14000
sg13g2_or2_1	509.18000	819.34200	1038.49000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_2	A->X (RR)	0.01860	0.00100	**0.06768**	0.32940	0.12960	**0.36906**	2.50740	0.60000	**1.29617**
	B->X (RR)	0.01860	0.00100	**0.06314**	0.32940	0.12960	**0.35722**	2.50740	0.60000	**1.25411**
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.05684**	0.32940	0.06480	**0.33683**	2.50740	0.30000	**1.21493**
	B->X (RR)	0.01860	0.00100	**0.05216**	0.32940	0.06480	**0.32148**	2.50740	0.30000	**1.16659**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_2	A->X (FF)	0.01860	0.00100	**0.11781**	0.32940	0.12960	**0.39774**	2.50740	0.60000	**1.25509**
	B->X (FF)	0.01860	0.00100	**0.11131**	0.32940	0.12960	**0.41063**	2.50740	0.60000	**1.30854**
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.09141**	0.32940	0.06480	**0.34491**	2.50740	0.30000	**1.16136**
	B->X (FF)	0.01860	0.00100	**0.08447**	0.32940	0.06480	**0.35255**	2.50740	0.30000	**1.19970**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_2	A	0.01860	0.00100	**0.01259**	0.32940	0.12960	**0.01328**	2.50740	0.60000	**0.02605**
	B	0.01860	0.00100	**0.01229**	0.32940	0.12960	**0.01292**	2.50740	0.60000	**0.02480**
sg13g2_or2_1	A	0.01860	0.00100	**0.00768**	0.32940	0.06480	**0.00849**	2.50740	0.30000	**0.02020**
	B	0.01860	0.00100	**0.00737**	0.32940	0.06480	**0.00803**	2.50740	0.30000	**0.02000**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_2	A	0.01860	0.00100	**0.01501**	0.32940	0.12960	**0.01460**	2.50740	0.60000	**0.02860**
	B	0.01860	0.00100	**0.01325**	0.32940	0.12960	**0.01313**	2.50740	0.60000	**0.02434**
sg13g2_or2_1	A	0.01860	0.00100	**0.00944**	0.32940	0.06480	**0.00980**	2.50740	0.30000	**0.02108**
	B	0.01860	0.00100	**0.00762**	0.32940	0.06480	**0.00842**	2.50740	0.30000	**0.02062**

OR3x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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_2	14.51520
sg13g2_or3_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_2	0.00256	0.00250	0.00238	0.60000
sg13g2_or3_1	0.00257	0.00251	0.00239	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_2	736.48900	1155.60000	1946.55000
sg13g2_or3_1	530.92700	880.63300	1338.02000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_2	A->X (RR)	0.01860	0.00100	**0.07697**	0.32940	0.12960	**0.39070**	2.50740	0.60000	**1.36225**
	B->X (RR)	0.01860	0.00100	**0.07328**	0.32940	0.12960	**0.38027**	2.50740	0.60000	**1.31898**
	C->X (RR)	0.01860	0.00100	**0.06736**	0.32940	0.12960	**0.36714**	2.50740	0.60000	**1.27826**
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.06622**	0.32940	0.06480	**0.36067**	2.50740	0.30000	**1.28973**
	B->X (RR)	0.01860	0.00100	**0.06291**	0.32940	0.06480	**0.34852**	2.50740	0.30000	**1.24173**
	C->X (RR)	0.01860	0.00100	**0.05685**	0.32940	0.06480	**0.33414**	2.50740	0.30000	**1.19118**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_2	A->X (FF)	0.01860	0.00100	**0.16390**	0.32940	0.12960	**0.44541**	2.50740	0.60000	**1.27304**
	B->X (FF)	0.01860	0.00100	**0.15851**	0.32940	0.12960	**0.45468**	2.50740	0.60000	**1.34440**
	C->X (FF)	0.01860	0.00100	**0.14421**	0.32940	0.12960	**0.45603**	2.50740	0.60000	**1.37711**
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.13083**	0.32940	0.06480	**0.38850**	2.50740	0.30000	**1.18579**
	B->X (FF)	0.01860	0.00100	**0.12540**	0.32940	0.06480	**0.39469**	2.50740	0.30000	**1.24376**
	C->X (FF)	0.01860	0.00100	**0.11065**	0.32940	0.06480	**0.39229**	2.50740	0.30000	**1.25850**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_2	A	0.01860	0.00100	**0.01320**	0.32940	0.12960	**0.01367**	2.50740	0.60000	**0.02929**
	B	0.01860	0.00100	**0.01274**	0.32940	0.12960	**0.01329**	2.50740	0.60000	**0.02626**
	C	0.01860	0.00100	**0.01245**	0.32940	0.12960	**0.01289**	2.50740	0.60000	**0.02544**
sg13g2_or3_1	A	0.01860	0.00100	**0.00823**	0.32940	0.06480	**0.00869**	2.50740	0.30000	**0.02150**
	B	0.01860	0.00100	**0.00782**	0.32940	0.06480	**0.00823**	2.50740	0.30000	**0.02064**
	C	0.01860	0.00100	**0.00751**	0.32940	0.06480	**0.00818**	2.50740	0.30000	**0.01967**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_2	A	0.01860	0.00100	**0.01971**	0.32940	0.12960	**0.01816**	2.50740	0.60000	**0.02967**
	B	0.01860	0.00100	**0.01772**	0.32940	0.12960	**0.01644**	2.50740	0.60000	**0.02701**
	C	0.01860	0.00100	**0.01557**	0.32940	0.12960	**0.01454**	2.50740	0.60000	**0.02461**
sg13g2_or3_1	A	0.01860	0.00100	**0.01349**	0.32940	0.06480	**0.01351**	2.50740	0.30000	**0.02534**
	B	0.01860	0.00100	**0.01150**	0.32940	0.06480	**0.01158**	2.50740	0.30000	**0.02321**
	C	0.01860	0.00100	**0.00928**	0.32940	0.06480	**0.00987**	2.50740	0.30000	**0.02191**

OR4x

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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_2	16.32960
sg13g2_or4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_2	0.00253	0.00246	0.00213	0.00215	0.60000
sg13g2_or4_1	0.00253	0.00247	0.00213	0.00216	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_2	738.01400	1106.77000	2087.87000
sg13g2_or4_1	532.59800	866.63700	1594.59000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_2	A->X (RR)	0.01860	0.00100	**0.08020**	0.32940	0.12960	**0.40069**	2.50740	0.60000	**1.38172**
	B->X (RR)	0.01860	0.00100	**0.07873**	0.32940	0.12960	**0.39306**	2.50740	0.60000	**1.34575**
	C->X (RR)	0.01860	0.00100	**0.07434**	0.32940	0.12960	**0.38249**	2.50740	0.60000	**1.30730**
	D->X (RR)	0.01860	0.00100	**0.06811**	0.32940	0.12960	**0.36927**	2.50740	0.60000	**1.26502**
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.06913**	0.32940	0.06480	**0.37248**	2.50740	0.30000	**1.31562**
	B->X (RR)	0.01860	0.00100	**0.06815**	0.32940	0.06480	**0.36361**	2.50740	0.30000	**1.27110**
	C->X (RR)	0.01860	0.00100	**0.06427**	0.32940	0.06480	**0.35157**	2.50740	0.30000	**1.22711**
	D->X (RR)	0.01860	0.00100	**0.05786**	0.32940	0.06480	**0.33720**	2.50740	0.30000	**1.17884**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_2	A->X (FF)	0.01860	0.00100	**0.22496**	0.32940	0.12960	**0.52164**	2.50740	0.60000	**1.33809**
	B->X (FF)	0.01860	0.00100	**0.21986**	0.32940	0.12960	**0.52320**	2.50740	0.60000	**1.41357**
	C->X (FF)	0.01860	0.00100	**0.20586**	0.32940	0.12960	**0.52042**	2.50740	0.60000	**1.46755**
	D->X (FF)	0.01860	0.00100	**0.18150**	0.32940	0.12960	**0.51068**	2.50740	0.60000	**1.48144**
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.18059**	0.32940	0.06480	**0.45156**	2.50740	0.30000	**1.24550**
	B->X (FF)	0.01860	0.00100	**0.17550**	0.32940	0.06480	**0.45255**	2.50740	0.30000	**1.30641**
	C->X (FF)	0.01860	0.00100	**0.16151**	0.32940	0.06480	**0.44750**	2.50740	0.30000	**1.35144**
	D->X (FF)	0.01860	0.00100	**0.13659**	0.32940	0.06480	**0.43598**	2.50740	0.30000	**1.35056**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_2	A	0.01860	0.00100	**0.01394**	0.32940	0.12960	**0.01431**	2.50740	0.60000	**0.02653**
	B	0.01860	0.00100	**0.01349**	0.32940	0.12960	**0.01387**	2.50740	0.60000	**0.02567**
	C	0.01860	0.00100	**0.01226**	0.32940	0.12960	**0.01274**	2.50740	0.60000	**0.02473**
	D	0.01860	0.00100	**0.01072**	0.32940	0.12960	**0.01123**	2.50740	0.60000	**0.02169**
sg13g2_or4_1	A	0.01860	0.00100	**0.00892**	0.32940	0.06480	**0.00940**	2.50740	0.30000	**0.02190**
	B	0.01860	0.00100	**0.00851**	0.32940	0.06480	**0.00879**	2.50740	0.30000	**0.01957**
	C	0.01860	0.00100	**0.00734**	0.32940	0.06480	**0.00769**	2.50740	0.30000	**0.01861**
	D	0.01860	0.00100	**0.00577**	0.32940	0.06480	**0.00644**	2.50740	0.30000	**0.01705**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_2	A	0.01860	0.00100	**0.02247**	0.32940	0.12960	**0.01994**	2.50740	0.60000	**0.02678**
	B	0.01860	0.00100	**0.02138**	0.32940	0.12960	**0.01861**	2.50740	0.60000	**0.02636**
	C	0.01860	0.00100	**0.01960**	0.32940	0.12960	**0.01698**	2.50740	0.60000	**0.02615**
	D	0.01860	0.00100	**0.01625**	0.32940	0.12960	**0.01387**	2.50740	0.60000	**0.02398**
sg13g2_or4_1	A	0.01860	0.00100	**0.01517**	0.32940	0.06480	**0.01481**	2.50740	0.30000	**0.02476**
	B	0.01860	0.00100	**0.01410**	0.32940	0.06480	**0.01369**	2.50740	0.30000	**0.02337**
	C	0.01860	0.00100	**0.01234**	0.32940	0.06480	**0.01199**	2.50740	0.30000	**0.02195**
	D	0.01860	0.00100	**0.00895**	0.32940	0.06480	**0.00917**	2.50740	0.30000	**0.01961**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00000**	0.32940	**-0.00017**	2.50740	**-0.00022**
sg13g2_or4_1	0.01860	**0.00000**	0.32940	**-0.00017**	2.50740	**-0.00022**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00086**	0.32940	**0.00089**	2.50740	**0.00090**
sg13g2_or4_1	0.01860	**0.00086**	0.32940	**0.00089**	2.50740	**0.00090**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00000**	0.32940	**-0.00017**	2.50740	**-0.00022**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00000**	0.32940	**-0.00017**	2.50740	**-0.00022**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(!B * C) + (!B * !C * D)**	0.01860	**0.00086**	0.32940	**0.00089**	2.50740	**0.00090**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00086**	0.32940	**0.00089**	2.50740	**0.00090**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	0.01860	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(!A * C) + (!A * !C * D)**	0.01860	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(!A * C) + (!A * !C * D)**	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00061**	0.32940	**0.00063**	2.50740	**0.00064**
sg13g2_or4_1	0.01860	**0.00061**	0.32940	**0.00063**	2.50740	**0.00064**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00024**	0.32940	**-0.00024**	2.50740	**-0.00024**
sg13g2_or4_1	0.01860	**-0.00024**	0.32940	**-0.00024**	2.50740	**-0.00024**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(A * !D) + (!A * B * !D)**	0.01860	**0.00061**	0.32940	**0.00063**	2.50740	**0.00064**
sg13g2_or4_1	**(A * !D) + (!A * B * !D)**	0.01860	**0.00061**	0.32940	**0.00063**	2.50740	**0.00064**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00024**	0.32940	**-0.00024**	2.50740	**-0.00024**
sg13g2_or4_1	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00024**	0.32940	**-0.00024**	2.50740	**-0.00024**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00175**	0.32940	**0.00178**	2.50740	**0.00178**
sg13g2_or4_1	0.01860	**0.00176**	0.32940	**0.00178**	2.50740	**0.00178**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00093**	0.32940	**0.00093**	2.50740	**0.00095**
sg13g2_or4_1	0.01860	**0.00091**	0.32940	**0.00093**	2.50740	**0.00095**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(A * !C) + (!A * B * !C)**	0.01860	**0.00175**	0.32940	**0.00178**	2.50740	**0.00178**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00176**	0.32940	**0.00178**	2.50740	**0.00178**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(A * !C) + (!A * B * !C)**	0.01860	**0.00093**	0.32940	**0.00093**	2.50740	**0.00095**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00091**	0.32940	**0.00093**	2.50740	**0.00095**

SDFRRS

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	D	SCD	SCE	RESET_B	SET_B	CLK	Q	Q_N
sg13g2_sdfbbp_1	0.00195	0.00196	0.00353	0.00172	0.00519	0.00299	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	4196.74000	5867.63000	7346.24000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.30276**	0.32940	0.06480	**0.57714**	2.50740	0.30000	**1.44291**
	SET_B->Q (FR)	0.01860	0.00100	**0.12344**	0.32940	0.06480	**0.41908**	2.50740	0.30000	**1.34937**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.24886**	0.32940	0.06480	**0.50232**	2.50740	0.30000	**1.28955**
	RESET_B->Q (FF)	0.01860	0.00100	**0.20513**	0.32940	0.06480	**0.47557**	2.50740	0.30000	**1.30855**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.30276**	0.32940	0.06480	**0.57714**	2.50740	0.30000	**1.44291**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.24886**	0.32940	0.06480	**0.50232**	2.50740	0.30000	**1.28955**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.20512**	0.32940	0.06480	**0.50108**	2.50740	0.30000	**1.38427**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.16039**	0.32940	0.06480	**0.48069**	2.50740	0.30000	**1.41426**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.25162**	0.32940	0.06480	**0.54399**	2.50740	0.30000	**1.31936**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.08129**	0.32940	0.06480	**0.37925**	2.50740	0.30000	**1.24017**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.20512**	0.32940	0.06480	**0.50108**	2.50740	0.30000	**1.38427**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.25162**	0.32940	0.06480	**0.54399**	2.50740	0.30000	**1.31936**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.25095**	2.50740	2.50740	**-0.34238**
	setup	CLK (R)	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.27523**	2.50740	2.50740	**0.36894**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.19158**	2.50740	2.50740	**-0.25088**
	setup	CLK (R)	0.01860	0.01860	**0.17116**	1.26300	1.26300	**0.27254**	2.50740	2.50740	**0.35714**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.11981**	1.26300	1.26300	**-0.30222**	2.50740	2.50740	**-0.41026**
	setup	CLK (R)	0.01860	0.01860	**0.16138**	1.26300	1.26300	**0.32380**	2.50740	2.50740	**0.43093**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.12959**	1.26300	1.26300	**-0.19968**	2.50740	2.50740	**-0.25678**
	setup	CLK (R)	0.01860	0.01860	**0.20540**	1.26300	1.26300	**0.27793**	2.50740	2.50740	**0.36304**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.28873**	2.50740	2.50740	**-0.39846**
	setup	CLK (R)	0.01860	0.01860	**0.14182**	1.26300	1.26300	**0.31301**	2.50740	2.50740	**0.42502**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.17709**
	setup	CLK (R)	0.01860	0.01860	**0.17116**	1.26300	1.26300	**0.22127**	2.50740	2.50740	**0.28335**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.12952**	2.50740	2.50740	**0.15938**
	removal	CLK (R)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.09444**	2.50740	2.50740	**-0.11806**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.03423**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.54899**
	removal	CLK (R)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**0.09444**	2.50740	2.50740	**0.09445**
	hold	RESET_B (R)	0.01860	0.01860	**-0.07825**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.25973**
	setup	RESET_B (R)	0.01860	0.01860	**0.09781**	1.26300	1.26300	**0.23206**	2.50740	2.50740	**0.33057**

Min Pulse Width (ns) for SET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_sdfbbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02091**	0.32940	0.06480	**0.02177**	2.50740	0.30000	**0.03360**
	SET_B	0.01860	0.00100	**0.03908**	0.32940	0.06480	**0.09839**	2.50740	0.30000	**0.34262**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02068**	0.32940	0.06480	**0.02137**	2.50740	0.30000	**0.03241**
	RESET_B	0.01860	0.00100	**0.04388**	0.32940	0.06480	**0.10247**	2.50740	0.30000	**0.32773**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02091**	0.32940	0.06480	**0.02177**	2.50740	0.30000	**0.03360**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02068**	0.32940	0.06480	**0.02137**	2.50740	0.30000	**0.03241**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02069**	0.32940	0.06480	**0.02151**	2.50740	0.30000	**0.03400**
	RESET_B	0.01860	0.00100	**0.04388**	0.32940	0.06480	**0.10278**	2.50740	0.30000	**0.33022**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02091**	0.32940	0.06480	**0.02160**	2.50740	0.30000	**0.03140**
	SET_B	0.01860	0.00100	**0.03905**	0.32940	0.06480	**0.09800**	2.50740	0.30000	**0.34181**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02069**	0.32940	0.06480	**0.02151**	2.50740	0.30000	**0.03400**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02091**	0.32940	0.06480	**0.02160**	2.50740	0.30000	**0.03140**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**-0.00088**	0.32940	**-0.00071**	2.50740	**0.00671**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00622**	0.32940	**0.00646**	2.50740	**0.01369**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.01410**	0.32940	**0.01424**	2.50740	**0.02263**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**-0.00088**	0.32940	**-0.00071**	2.50740	**0.00671**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.01414**	0.32940	**0.01428**	2.50740	**0.02268**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00622**	0.32940	**0.00646**	2.50740	**0.01369**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00670**	0.32940	**0.00673**	2.50740	**0.01324**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**-0.00316**	0.32940	**-0.00314**	2.50740	**0.00355**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01603**	0.32940	**0.01600**	2.50740	**0.02339**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00670**	0.32940	**0.00673**	2.50740	**0.01324**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01894**	0.32940	**0.01850**	2.50740	**0.02621**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**-0.00316**	0.32940	**-0.00314**	2.50740	**0.00355**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01305**	0.32940	**0.01268**	2.50740	**0.02309**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01863**	0.32940	**0.01921**	2.50740	**0.02928**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01798**	0.32940	**0.01851**	2.50740	**0.02902**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01305**	0.32940	**0.01268**	2.50740	**0.02309**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01642**	0.32940	**0.01739**	2.50740	**0.03642**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00699**	0.32940	**0.00796**	2.50740	**0.02594**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01863**	0.32940	**0.01921**	2.50740	**0.02928**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01414**	0.32940	**0.02393**	2.50740	**0.03409**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00103**	0.32940	**0.02759**	2.50740	**0.04851**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**-0.00555**	0.32940	**-0.00465**	2.50740	**0.01242**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01496**	0.32940	**0.01600**	2.50740	**0.03624**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01441**	0.32940	**0.01563**	2.50740	**0.03571**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01525**	0.32940	**0.01631**	2.50740	**0.03649**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01496**	0.32940	**0.01600**	2.50740	**0.03624**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01494**	0.32940	**0.01598**	2.50740	**0.03628**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01525**	0.32940	**0.01632**	2.50740	**0.03649**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00258**	0.32940	**0.00363**	2.50740	**0.02396**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01492**	0.32940	**0.01596**	2.50740	**0.03627**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01375**	0.32940	**0.01488**	2.50740	**0.03511**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.02517**	0.32940	**0.02620**	2.50740	**0.04695**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.00588**	0.32940	**0.00723**	2.50740	**0.02802**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.02726**	0.32940	**0.02852**	2.50740	**0.04945**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01441**	0.32940	**0.01563**	2.50740	**0.03571**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01376**	0.32940	**0.01488**	2.50740	**0.03511**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00043**	0.32940	**0.00166**	2.50740	**0.02172**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01392**	0.32940	**0.01515**	2.50740	**0.03522**

SGCLK

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_slgcp_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	GATE	SCE	CLK	GCLK
sg13g2_slgcp_1	0.00200	0.00239	0.00495	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	2647.27000	3177.08000	3734.68000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_slgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.07281**	0.32940	0.06480	**0.33993**	2.50740	0.30000	**1.21980**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_slgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.06141**	0.32940	0.06480	**0.32325**	2.50740	0.30000	**1.13507**

Constraint Information

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_slgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.04018**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.25125**
	setup	CLK (R)	0.01860	0.01860	**0.06589**	1.26300	1.26300	**0.26984**	2.50740	2.50740	**0.39772**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_slgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.06697**	1.26300	1.26300	**-0.19428**	2.50740	2.50740	**-0.29873**
	setup	CLK (R)	0.01860	0.01860	**0.10745**	1.26300	1.26300	**0.24825**	2.50740	2.50740	**0.41057**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_slgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.04406**	1.26300	1.26300	**-0.20777**	2.50740	2.50740	**-0.30171**
	setup	CLK (R)	0.01860	0.01860	**0.00200**	1.26300	1.26300	**0.00200**	2.50740	2.50740	**0.00200**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_slgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.07391**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.23906**
	setup	CLK (R)	0.01860	0.01860	**0.11169**	1.26300	1.26300	**0.21857**	2.50740	2.50740	**0.33199**

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_slgcp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.01336**	0.32940	0.06480	**0.01389**	2.50740	0.30000	**0.02706**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.01192**	0.32940	0.06480	**0.01308**	2.50740	0.30000	**0.02665**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.02364**	0.32940	**0.02529**	2.50740	**0.03859**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01108**	0.32940	**0.03746**	2.50740	**0.05089**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	!CLK	0.01860	**0.02364**	0.32940	**0.02529**	2.50740	**0.03859**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	!CLK	0.01860	**0.01108**	0.32940	**0.03746**	2.50740	**0.05089**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00806**	0.32940	**0.00873**	2.50740	**0.02205**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01338**	0.32940	**0.03634**	2.50740	**0.04891**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00658**	0.32940	**0.00761**	2.50740	**0.02523**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00462**	0.32940	**0.00574**	2.50740	**0.02363**

TIE0

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	57.44150	57.44150	57.44150

TIE1

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	55.10960	55.10960	55.10960

XNOR2_1

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00544	0.00496	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	436.49000	1366.74000	1932.02000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (RR)	0.01860	0.00100	**0.07221**	0.32940	0.06480	**0.34026**	2.50740	0.30000	**1.21678**
	A->Y (FR)	0.01860	0.00100	**0.05441**	0.32940	0.06480	**0.53546**	2.50740	0.30000	**2.61311**
	B->Y (RR)	0.01860	0.00100	**0.06683**	0.32940	0.06480	**0.33876**	2.50740	0.30000	**1.22330**
	B->Y (FR)	0.01860	0.00100	**0.04795**	0.32940	0.06480	**0.55162**	2.50740	0.30000	**2.81166**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (FF)	0.01860	0.00100	**0.07093**	0.32940	0.06480	**0.44005**	2.50740	0.30000	**1.65022**
	A->Y (RF)	0.01860	0.00100	**0.04657**	0.32940	0.06480	**0.43653**	2.50740	0.30000	**2.22002**
	B->Y (FF)	0.01860	0.00100	**0.07185**	0.32940	0.06480	**0.42693**	2.50740	0.30000	**1.62290**
	B->Y (RF)	0.01860	0.00100	**0.03938**	0.32940	0.06480	**0.42788**	2.50740	0.30000	**2.20612**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00971**	0.32940	0.06480	**0.01029**	2.50740	0.30000	**0.02322**
	B	0.01860	0.00100	**0.00977**	0.32940	0.06480	**0.01039**	2.50740	0.30000	**0.02442**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00842**	0.32940	0.06480	**0.00948**	2.50740	0.30000	**0.02236**
	B	0.01860	0.00100	**0.00945**	0.32940	0.06480	**0.00887**	2.50740	0.30000	**0.02244**

XOR2_1

sg13g2_stdcell_slow_1p35V_125C Cell Library: Process
sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

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	0.00577	0.00510	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	1079.38000	1356.10000	1948.47000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (RR)	0.01860	0.00100	**0.07277**	0.32940	0.06480	**0.54542**	2.50740	0.30000	**2.14328**
	A->X (FR)	0.01860	0.00100	**0.05934**	0.32940	0.06480	**0.54295**	2.50740	0.30000	**2.62293**
	B->X (RR)	0.01860	0.00100	**0.07631**	0.32940	0.06480	**0.53122**	2.50740	0.30000	**2.09767**
	B->X (FR)	0.01860	0.00100	**0.05076**	0.32940	0.06480	**0.53385**	2.50740	0.30000	**2.61014**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (FF)	0.01860	0.00100	**0.08720**	0.32940	0.06480	**0.33445**	2.50740	0.30000	**1.11604**
	A->X (RF)	0.01860	0.00100	**0.04426**	0.32940	0.06480	**0.43334**	2.50740	0.30000	**2.21369**
	B->X (FF)	0.01860	0.00100	**0.08039**	0.32940	0.06480	**0.33927**	2.50740	0.30000	**1.15013**
	B->X (RF)	0.01860	0.00100	**0.03848**	0.32940	0.06480	**0.44256**	2.50740	0.30000	**2.34556**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.00872**	0.32940	0.06480	**0.00959**	2.50740	0.30000	**0.02237**
	B	0.01860	0.00100	**0.00947**	0.32940	0.06480	**0.00889**	2.50740	0.30000	**0.02202**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.01059**	0.32940	0.06480	**0.01102**	2.50740	0.30000	**0.02321**
	B	0.01860	0.00100	**0.00971**	0.32940	0.06480	**0.01035**	2.50740	0.30000	**0.02335**