sg13g2_stdcell_slow_1p08V_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_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00518	0.00559	0.00510	0.60000
sg13g2_a21oi_1	0.00271	0.00279	0.00260	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_2	361.20200	878.05500	2041.52000
sg13g2_a21oi_1	180.60000	439.03300	1020.77000

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	**0.06196**	0.32940	0.12960	**0.77651**	2.50740	0.60000	**3.75646**
	A2->Y (FR)	0.01860	0.00100	**0.07393**	0.32940	0.12960	**0.78780**	2.50740	0.60000	**3.76369**
	B1->Y (FR)	0.01860	0.00100	**0.05850**	0.32940	0.12960	**0.78112**	2.50740	0.60000	**3.87182**
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.06878**	0.32940	0.06480	**0.77626**	2.50740	0.30000	**3.74630**
	A2->Y (FR)	0.01860	0.00100	**0.08028**	0.32940	0.06480	**0.78923**	2.50740	0.30000	**3.76379**
	B1->Y (FR)	0.01860	0.00100	**0.06510**	0.32940	0.06480	**0.78250**	2.50740	0.30000	**3.87410**

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	**0.05193**	0.32940	0.12960	**0.63622**	2.50740	0.60000	**3.24427**
	A2->Y (RF)	0.01860	0.00100	**0.05931**	0.32940	0.12960	**0.64073**	2.50740	0.60000	**3.18738**
	B1->Y (RF)	0.01860	0.00100	**0.02600**	0.32940	0.12960	**0.43053**	2.50740	0.60000	**2.46495**
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.05765**	0.32940	0.06480	**0.63732**	2.50740	0.30000	**3.24367**
	A2->Y (RF)	0.01860	0.00100	**0.06450**	0.32940	0.06480	**0.64118**	2.50740	0.30000	**3.18418**
	B1->Y (RF)	0.01860	0.00100	**0.02906**	0.32940	0.06480	**0.43142**	2.50740	0.30000	**2.46501**

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	**0.05850**	0.32940	0.12960	**0.78112**	2.50740	0.60000	**3.87182**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.04443**	0.32940	0.12960	**0.76699**	2.50740	0.60000	**3.86070**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.03588**	0.32940	0.12960	**0.61296**	2.50740	0.60000	**3.21617**
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.06510**	0.32940	0.06480	**0.78250**	2.50740	0.30000	**3.87410**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.05139**	0.32940	0.06480	**0.76656**	2.50740	0.30000	**3.85570**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.04097**	0.32940	0.06480	**0.61365**	2.50740	0.30000	**3.21405**

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	**0.02600**	0.32940	0.12960	**0.43053**	2.50740	0.60000	**2.46495**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02578**	0.32940	0.12960	**0.42996**	2.50740	0.60000	**2.46345**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.02556**	0.32940	0.12960	**0.42928**	2.50740	0.60000	**2.46116**
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02906**	0.32940	0.06480	**0.43142**	2.50740	0.30000	**2.46501**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02883**	0.32940	0.06480	**0.43064**	2.50740	0.30000	**2.46117**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.02861**	0.32940	0.06480	**0.43120**	2.50740	0.30000	**2.46500**

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	**0.00582**	0.32940	0.12960	**0.00557**	2.50740	0.60000	**0.00487**
	A2	0.01860	0.00100	**0.00678**	0.32940	0.12960	**0.00651**	2.50740	0.60000	**0.00575**
	B1	0.01860	0.00100	**0.00427**	0.32940	0.12960	**0.00421**	2.50740	0.60000	**0.00365**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00297**	0.32940	0.06480	**0.00281**	2.50740	0.30000	**0.00231**
	A2	0.01860	0.00100	**0.00337**	0.32940	0.06480	**0.00323**	2.50740	0.30000	**0.00298**
	B1	0.01860	0.00100	**0.00222**	0.32940	0.06480	**0.00214**	2.50740	0.30000	**0.00187**

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	**0.00545**	0.32940	0.12960	**0.00491**	2.50740	0.60000	**0.00363**
	A2	0.01860	0.00100	**0.00751**	0.32940	0.12960	**0.00709**	2.50740	0.60000	**0.00531**
	B1	0.01860	0.00100	**0.00179**	0.32940	0.12960	**0.00181**	2.50740	0.60000	**0.00034**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00302**	0.32940	0.06480	**0.00274**	2.50740	0.30000	**0.00215**
	A2	0.01860	0.00100	**0.00397**	0.32940	0.06480	**0.00376**	2.50740	0.30000	**0.00279**
	B1	0.01860	0.00100	**0.00118**	0.32940	0.06480	**0.00109**	2.50740	0.30000	**0.00004**

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	**0.00503**	0.32940	0.12960	**0.00482**	2.50740	0.60000	**0.00385**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00427**	0.32940	0.12960	**0.00428**	2.50740	0.60000	**0.00338**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00427**	0.32940	0.12960	**0.00421**	2.50740	0.60000	**0.00365**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00251**	0.32940	0.06480	**0.00238**	2.50740	0.30000	**0.00211**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00222**	0.32940	0.06480	**0.00217**	2.50740	0.30000	**0.00180**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00222**	0.32940	0.06480	**0.00214**	2.50740	0.30000	**0.00187**

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	**0.00421**	0.32940	0.12960	**0.00423**	2.50740	0.60000	**0.00275**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00179**	0.32940	0.12960	**0.00181**	2.50740	0.60000	**0.00034**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00171**	0.32940	0.12960	**0.00161**	2.50740	0.60000	**-0.00007**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00239**	0.32940	0.06480	**0.00231**	2.50740	0.30000	**0.00142**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00118**	0.32940	0.06480	**0.00109**	2.50740	0.30000	**0.00004**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00114**	0.32940	0.06480	**0.00110**	2.50740	0.30000	**0.00033**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00062**	0.32940	**-0.00067**	2.50740	**-0.00066**
sg13g2_a21oi_1	0.01860	**-0.00031**	0.32940	**-0.00033**	2.50740	**-0.00033**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00122**	0.32940	**0.00127**	2.50740	**0.00128**
sg13g2_a21oi_1	0.01860	**0.00055**	0.32940	**0.00058**	2.50740	**0.00058**

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	**-0.00020**	0.32940	**-0.00021**	2.50740	**-0.00021**
	(!A2 * !B1)	0.01860	**-0.00062**	0.32940	**-0.00067**	2.50740	**-0.00066**
sg13g2_a21oi_1	B1	0.01860	**-0.00003**	0.32940	**-0.00003**	2.50740	**-0.00003**
	(!A2 * !B1)	0.01860	**-0.00031**	0.32940	**-0.00033**	2.50740	**-0.00033**

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	**0.00020**	0.32940	**0.00021**	2.50740	**0.00021**
	(!A2 * !B1)	0.01860	**0.00122**	0.32940	**0.00127**	2.50740	**0.00128**
sg13g2_a21oi_1	B1	0.01860	**0.00003**	0.32940	**0.00003**	2.50740	**0.00003**
	(!A2 * !B1)	0.01860	**0.00055**	0.32940	**0.00058**	2.50740	**0.00058**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00019**	0.32940	**-0.00021**	2.50740	**-0.00021**
sg13g2_a21oi_1	0.01860	**-0.00010**	0.32940	**-0.00011**	2.50740	**-0.00011**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00075**	0.32940	**0.00056**	2.50740	**0.00049**
sg13g2_a21oi_1	0.01860	**0.00037**	0.32940	**0.00028**	2.50740	**0.00024**

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	**-0.00012**	0.32940	**-0.00014**	2.50740	**-0.00014**
	(!A1 * !B1)	0.01860	**-0.00019**	0.32940	**-0.00021**	2.50740	**-0.00021**
sg13g2_a21oi_1	B1	0.01860	**-0.00007**	0.32940	**-0.00007**	2.50740	**-0.00008**
	(!A1 * !B1)	0.01860	**-0.00010**	0.32940	**-0.00011**	2.50740	**-0.00011**

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	**0.00012**	0.32940	**0.00014**	2.50740	**0.00014**
	(!A1 * !B1)	0.01860	**0.00075**	0.32940	**0.00056**	2.50740	**0.00049**
sg13g2_a21oi_1	B1	0.01860	**0.00007**	0.32940	**0.00007**	2.50740	**0.00008**
	(!A1 * !B1)	0.01860	**0.00037**	0.32940	**0.00028**	2.50740	**0.00024**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00062**	0.32940	**0.00065**	2.50740	**0.00065**
sg13g2_a21oi_1	0.01860	**0.00034**	0.32940	**0.00036**	2.50740	**0.00036**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00062**	0.32940	**-0.00065**	2.50740	**-0.00065**
sg13g2_a21oi_1	0.01860	**-0.00034**	0.32940	**-0.00036**	2.50740	**-0.00036**

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	**0.00062**	0.32940	**0.00065**	2.50740	**0.00065**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**0.00034**	0.32940	**0.00036**	2.50740	**0.00036**

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	**-0.00062**	0.32940	**-0.00065**	2.50740	**-0.00065**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**-0.00034**	0.32940	**-0.00036**	2.50740	**-0.00036**

A221OI

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00277	0.00278	0.00261	0.00266	0.00244	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	226.42500	553.23500	1387.73000

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	**0.16082**	0.32940	0.12960	**2.06001**	2.50740	0.60000	**9.19515**
	A2->Y (FR)	0.01860	0.00100	**0.17845**	0.32940	0.12960	**2.07656**	2.50740	0.60000	**9.20716**
	B1->Y (FR)	0.01860	0.00100	**0.14472**	0.32940	0.12960	**2.04519**	2.50740	0.60000	**9.33005**
	B2->Y (FR)	0.01860	0.00100	**0.16236**	0.32940	0.12960	**2.06066**	2.50740	0.60000	**9.34045**
	C1->Y (FR)	0.01860	0.00100	**0.10675**	0.32940	0.12960	**2.00735**	2.50740	0.60000	**9.35012**

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	**0.07746**	0.32940	0.12960	**1.11162**	2.50740	0.60000	**5.31184**
	A2->Y (RF)	0.01860	0.00100	**0.08399**	0.32940	0.12960	**1.11405**	2.50740	0.60000	**5.26347**
	B1->Y (RF)	0.01860	0.00100	**0.06755**	0.32940	0.12960	**1.09042**	2.50740	0.60000	**5.29024**
	B2->Y (RF)	0.01860	0.00100	**0.07435**	0.32940	0.12960	**1.09258**	2.50740	0.60000	**5.24050**
	C1->Y (RF)	0.01860	0.00100	**0.03345**	0.32940	0.12960	**0.67661**	2.50740	0.60000	**3.56547**

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	**0.16082**	0.32940	0.12960	**2.06001**	2.50740	0.60000	**9.19515**
	A1->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.13979**	0.32940	0.12960	**2.03977**	2.50740	0.60000	**9.18434**
	A1->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.12399**	0.32940	0.12960	**1.72221**	2.50740	0.60000	**7.82049**
	A2->Y (FR)	(B1 * !B2)	0.01860	0.00100	**0.17845**	0.32940	0.12960	**2.07656**	2.50740	0.60000	**9.20716**
	A2->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.15759**	0.32940	0.12960	**2.05684**	2.50740	0.60000	**9.19730**
	A2->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.13841**	0.32940	0.12960	**1.73571**	2.50740	0.60000	**7.82813**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.14472**	0.32940	0.12960	**2.04519**	2.50740	0.60000	**9.33005**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.12366**	0.32940	0.12960	**2.02353**	2.50740	0.60000	**9.31441**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.10217**	0.32940	0.12960	**1.69914**	2.50740	0.60000	**7.89107**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.16236**	0.32940	0.12960	**2.06066**	2.50740	0.60000	**9.34045**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.14142**	0.32940	0.12960	**2.03923**	2.50740	0.60000	**9.32519**
	B2->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.11653**	0.32940	0.12960	**1.71119**	2.50740	0.60000	**7.88974**
	C1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.10675**	0.32940	0.12960	**2.00735**	2.50740	0.60000	**9.35012**

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	**0.07494**	0.32940	0.12960	**1.10906**	2.50740	0.60000	**5.31153**
	A1->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.07423**	0.32940	0.12960	**1.10652**	2.50740	0.60000	**5.30604**
	A1->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.07746**	0.32940	0.12960	**1.11162**	2.50740	0.60000	**5.31184**
	A2->Y (RF)	(B1 * !B2)	0.01860	0.00100	**0.08146**	0.32940	0.12960	**1.11145**	2.50740	0.60000	**5.26315**
	A2->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.08076**	0.32940	0.12960	**1.10918**	2.50740	0.60000	**5.25784**
	A2->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.08399**	0.32940	0.12960	**1.11405**	2.50740	0.60000	**5.26347**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.06755**	0.32940	0.12960	**1.09042**	2.50740	0.60000	**5.29024**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.06695**	0.32940	0.12960	**1.08808**	2.50740	0.60000	**5.28492**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.06657**	0.32940	0.12960	**1.08634**	2.50740	0.60000	**5.28426**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.07435**	0.32940	0.12960	**1.09258**	2.50740	0.60000	**5.24050**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.07375**	0.32940	0.12960	**1.09025**	2.50740	0.60000	**5.23675**
	B2->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.07339**	0.32940	0.12960	**1.08973**	2.50740	0.60000	**5.23918**
	C1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03345**	0.32940	0.12960	**0.67661**	2.50740	0.60000	**3.56547**

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	**0.00640**	0.32940	0.12960	**0.00615**	2.50740	0.60000	**0.00533**
	A2	0.01860	0.00100	**0.00655**	0.32940	0.12960	**0.00623**	2.50740	0.60000	**0.00545**
	B1	0.01860	0.00100	**0.00605**	0.32940	0.12960	**0.00583**	2.50740	0.60000	**0.00546**
	B2	0.01860	0.00100	**0.00623**	0.32940	0.12960	**0.00590**	2.50740	0.60000	**0.00532**
	C1	0.01860	0.00100	**0.00297**	0.32940	0.12960	**0.00271**	2.50740	0.60000	**0.00194**

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	**0.00434**	0.32940	0.12960	**0.00389**	2.50740	0.60000	**0.00264**
	A2	0.01860	0.00100	**0.00551**	0.32940	0.12960	**0.00507**	2.50740	0.60000	**0.00389**
	B1	0.01860	0.00100	**0.00163**	0.32940	0.12960	**0.00129**	2.50740	0.60000	**0.00016**
	B2	0.01860	0.00100	**0.00281**	0.32940	0.12960	**0.00248**	2.50740	0.60000	**0.00121**
	C1	0.01860	0.00100	**0.00249**	0.32940	0.12960	**0.00243**	2.50740	0.60000	**0.00011**

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	**0.00640**	0.32940	0.12960	**0.00615**	2.50740	0.60000	**0.00533**
	A1	(!B1 * B2)	0.01860	0.00100	**0.00614**	0.32940	0.12960	**0.00594**	2.50740	0.60000	**0.00556**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.00750**	0.32940	0.12960	**0.00730**	2.50740	0.60000	**0.00670**
	A2	(B1 * !B2)	0.01860	0.00100	**0.00655**	0.32940	0.12960	**0.00623**	2.50740	0.60000	**0.00545**
	A2	(!B1 * B2)	0.01860	0.00100	**0.00632**	0.32940	0.12960	**0.00600**	2.50740	0.60000	**0.00548**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.00766**	0.32940	0.12960	**0.00738**	2.50740	0.60000	**0.00687**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00631**	0.32940	0.12960	**0.00606**	2.50740	0.60000	**0.00566**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00605**	0.32940	0.12960	**0.00580**	2.50740	0.60000	**0.00540**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00605**	0.32940	0.12960	**0.00583**	2.50740	0.60000	**0.00546**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00647**	0.32940	0.12960	**0.00613**	2.50740	0.60000	**0.00554**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00623**	0.32940	0.12960	**0.00590**	2.50740	0.60000	**0.00532**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.00623**	0.32940	0.12960	**0.00592**	2.50740	0.60000	**0.00499**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00297**	0.32940	0.12960	**0.00271**	2.50740	0.60000	**0.00194**

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	**0.00556**	0.32940	0.12960	**0.00509**	2.50740	0.60000	**0.00385**
	A1	(!B1 * B2)	0.01860	0.00100	**0.00434**	0.32940	0.12960	**0.00389**	2.50740	0.60000	**0.00264**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.00363**	0.32940	0.12960	**0.00319**	2.50740	0.60000	**0.00199**
	A2	(B1 * !B2)	0.01860	0.00100	**0.00673**	0.32940	0.12960	**0.00628**	2.50740	0.60000	**0.00500**
	A2	(!B1 * B2)	0.01860	0.00100	**0.00551**	0.32940	0.12960	**0.00507**	2.50740	0.60000	**0.00389**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.00480**	0.32940	0.12960	**0.00439**	2.50740	0.60000	**0.00315**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00284**	0.32940	0.12960	**0.00249**	2.50740	0.60000	**0.00123**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00163**	0.32940	0.12960	**0.00129**	2.50740	0.60000	**0.00016**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00159**	0.32940	0.12960	**0.00119**	2.50740	0.60000	**0.00007**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00402**	0.32940	0.12960	**0.00368**	2.50740	0.60000	**0.00229**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00281**	0.32940	0.12960	**0.00248**	2.50740	0.60000	**0.00121**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.00277**	0.32940	0.12960	**0.00240**	2.50740	0.60000	**0.00145**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00249**	0.32940	0.12960	**0.00243**	2.50740	0.60000	**0.00011**

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	**-0.00007**

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	**0.00007**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00008**	0.32940	**-0.00009**	2.50740	**-0.00009**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00008**	0.32940	**0.00009**	2.50740	**0.00009**

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	**-0.00008**	0.32940	**-0.00009**	2.50740	**-0.00009**

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	**0.00008**	0.32940	**0.00009**	2.50740	**0.00009**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00120**	0.32940	**0.00121**	2.50740	**0.00122**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00116**	0.32940	**-0.00117**	2.50740	**-0.00117**

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	**-0.00005**	0.32940	**-0.00007**	2.50740	**-0.00007**
	(A1 * A2 * !C1)	0.01860	**0.00120**	0.32940	**0.00121**	2.50740	**0.00122**

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	**0.00005**	0.32940	**0.00007**	2.50740	**0.00007**
	(A1 * A2 * !C1)	0.01860	**-0.00116**	0.32940	**-0.00117**	2.50740	**-0.00117**

Passive power(pJ) for B2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00123**	0.32940	**0.00123**	2.50740	**0.00123**

Passive power(pJ) for B2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00119**	0.32940	**-0.00119**	2.50740	**-0.00119**

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	**-0.00003**	0.32940	**-0.00005**	2.50740	**-0.00006**
	(A1 * A2 * !C1)	0.01860	**0.00123**	0.32940	**0.00123**	2.50740	**0.00123**

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	**0.00003**	0.32940	**0.00005**	2.50740	**0.00006**
	(A1 * A2 * !C1)	0.01860	**-0.00119**	0.32940	**-0.00119**	2.50740	**-0.00119**

Passive power(pJ) for C1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00033**	0.32940	**0.00035**	2.50740	**0.00035**

Passive power(pJ) for C1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00055**	0.32940	**0.00056**	2.50740	**0.00057**

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	**0.00033**	0.32940	**0.00035**	2.50740	**0.00035**

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	**0.00055**	0.32940	**0.00056**	2.50740	**0.00057**

A22OI

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00296	0.00289	0.00332	0.00339	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	90.96430	562.87800	1261.30000

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	**0.07018**	0.32940	0.06480	**0.65958**	2.50740	0.30000	**3.26341**
	A2->Y (FR)	0.01860	0.00100	**0.07812**	0.32940	0.06480	**0.66844**	2.50740	0.30000	**3.27314**
	B1->Y (FR)	0.01860	0.00100	**0.05548**	0.32940	0.06480	**0.62728**	2.50740	0.30000	**3.22511**
	B2->Y (FR)	0.01860	0.00100	**0.04706**	0.32940	0.06480	**0.61826**	2.50740	0.30000	**3.21254**

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	**0.07361**	0.32940	0.06480	**0.65381**	2.50740	0.30000	**3.25970**
	A2->Y (RF)	0.01860	0.00100	**0.07993**	0.32940	0.06480	**0.65653**	2.50740	0.30000	**3.20283**
	B1->Y (RF)	0.01860	0.00100	**0.05634**	0.32940	0.06480	**0.62874**	2.50740	0.30000	**3.17226**
	B2->Y (RF)	0.01860	0.00100	**0.04883**	0.32940	0.06480	**0.62609**	2.50740	0.30000	**3.22971**

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	**0.00196**	0.32940	0.06480	**0.00179**	2.50740	0.30000	**0.00103**
	A2	0.01860	0.00100	**0.00257**	0.32940	0.06480	**0.00232**	2.50740	0.30000	**0.00161**
	B1	0.01860	0.00100	**0.00123**	0.32940	0.06480	**0.00099**	2.50740	0.30000	**0.00053**
	B2	0.01860	0.00100	**0.00102**	0.32940	0.06480	**0.00090**	2.50740	0.30000	**0.00027**

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	**-0.00102**	0.32940	0.06480	**-0.00105**	2.50740	0.30000	**-0.00103**
	A2	0.01860	0.00100	**-0.00031**	0.32940	0.06480	**-0.00102**	2.50740	0.30000	**-0.00161**
	B1	0.01860	0.00100	**-0.00090**	0.32940	0.06480	**-0.00099**	2.50740	0.30000	**-0.00053**
	B2	0.01860	0.00100	**-0.00091**	0.32940	0.06480	**-0.00090**	2.50740	0.30000	**-0.00027**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00417**	0.32940	**0.00393**	2.50740	**0.00663**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00335**	0.32940	**0.00334**	2.50740	**0.00333**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00461**	0.32940	**0.00511**	2.50740	**0.00725**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00286**	0.32940	**0.00285**	2.50740	**0.00284**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00434**	0.32940	**0.00466**	2.50740	**0.00703**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00122**	0.32940	**0.00123**	2.50740	**0.00125**

Passive power(pJ) for B2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00313**	0.32940	**0.00358**	2.50740	**0.00672**

Passive power(pJ) for B2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00119**	0.32940	**0.00119**	2.50740	**0.00121**

AND2x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00240	0.00239	0.60000
sg13g2_and2_1	0.00240	0.00239	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_2	989.91400	1027.40000	1069.62000
sg13g2_and2_1	514.62900	635.37100	854.87300

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	**0.12603**	0.32940	0.12960	**0.55850**	2.50740	0.60000	**1.97865**
	B->X (RR)	0.01860	0.00100	**0.13303**	0.32940	0.12960	**0.56228**	2.50740	0.60000	**1.99585**
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.10118**	0.32940	0.06480	**0.50525**	2.50740	0.30000	**1.83731**
	B->X (RR)	0.01860	0.00100	**0.10849**	0.32940	0.06480	**0.51355**	2.50740	0.30000	**1.87325**

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	**0.10254**	0.32940	0.12960	**0.50142**	2.50740	0.60000	**1.75074**
	B->X (FF)	0.01860	0.00100	**0.10967**	0.32940	0.12960	**0.51449**	2.50740	0.60000	**1.79581**
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.08327**	0.32940	0.06480	**0.45216**	2.50740	0.30000	**1.60796**
	B->X (FF)	0.01860	0.00100	**0.09058**	0.32940	0.06480	**0.46948**	2.50740	0.30000	**1.65828**

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	**0.00814**	0.32940	0.12960	**0.00803**	2.50740	0.60000	**0.00994**
	B	0.01860	0.00100	**0.00916**	0.32940	0.12960	**0.00912**	2.50740	0.60000	**0.01062**
sg13g2_and2_1	A	0.01860	0.00100	**0.00522**	0.32940	0.06480	**0.00510**	2.50740	0.30000	**0.00729**
	B	0.01860	0.00100	**0.00627**	0.32940	0.06480	**0.00613**	2.50740	0.30000	**0.00801**

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	**0.00729**	0.32940	0.12960	**0.00733**	2.50740	0.60000	**0.00809**
	B	0.01860	0.00100	**0.00739**	0.32940	0.12960	**0.00750**	2.50740	0.60000	**0.00951**
sg13g2_and2_1	A	0.01860	0.00100	**0.00459**	0.32940	0.06480	**0.00448**	2.50740	0.30000	**0.00649**
	B	0.01860	0.00100	**0.00470**	0.32940	0.06480	**0.00475**	2.50740	0.30000	**0.00649**

AND3x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00227	0.00234	0.00237	0.60000
sg13g2_and3_1	0.00227	0.00235	0.00235	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_2	985.88700	1063.90000	1349.75000
sg13g2_and3_1	508.20000	629.03800	1214.70000

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_and3_2	A->X (RR)	0.01860	0.00100	**0.17680**	0.32940	0.12960	**0.62256**	2.50740	0.60000	**2.09012**
	B->X (RR)	0.01860	0.00100	**0.19060**	0.32940	0.12960	**0.63581**	2.50740	0.60000	**2.11952**
	C->X (RR)	0.01860	0.00100	**0.19679**	0.32940	0.12960	**0.63534**	2.50740	0.60000	**2.08807**
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.14178**	0.32940	0.06480	**0.55657**	2.50740	0.30000	**1.93698**
	B->X (RR)	0.01860	0.00100	**0.15586**	0.32940	0.06480	**0.57188**	2.50740	0.30000	**1.97327**
	C->X (RR)	0.01860	0.00100	**0.16203**	0.32940	0.06480	**0.57355**	2.50740	0.30000	**1.95925**

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	**0.10821**	0.32940	0.12960	**0.51187**	2.50740	0.60000	**1.77807**
	B->X (FF)	0.01860	0.00100	**0.11589**	0.32940	0.12960	**0.52538**	2.50740	0.60000	**1.82123**
	C->X (FF)	0.01860	0.00100	**0.12122**	0.32940	0.12960	**0.53487**	2.50740	0.60000	**1.85589**
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.08945**	0.32940	0.06480	**0.46495**	2.50740	0.30000	**1.64075**
	B->X (FF)	0.01860	0.00100	**0.09734**	0.32940	0.06480	**0.48085**	2.50740	0.30000	**1.68649**
	C->X (FF)	0.01860	0.00100	**0.10249**	0.32940	0.06480	**0.49236**	2.50740	0.30000	**1.72646**

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	**0.00936**	0.32940	0.12960	**0.00910**	2.50740	0.60000	**0.01024**
	B	0.01860	0.00100	**0.00999**	0.32940	0.12960	**0.00995**	2.50740	0.60000	**0.01066**
	C	0.01860	0.00100	**0.01096**	0.32940	0.12960	**0.01088**	2.50740	0.60000	**0.01108**
sg13g2_and3_1	A	0.01860	0.00100	**0.00633**	0.32940	0.06480	**0.00622**	2.50740	0.30000	**0.00847**
	B	0.01860	0.00100	**0.00700**	0.32940	0.06480	**0.00685**	2.50740	0.30000	**0.00801**
	C	0.01860	0.00100	**0.00796**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.00881**

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	**0.00699**	0.32940	0.12960	**0.00688**	2.50740	0.60000	**0.00744**
	B	0.01860	0.00100	**0.00752**	0.32940	0.12960	**0.00770**	2.50740	0.60000	**0.00889**
	C	0.01860	0.00100	**0.00764**	0.32940	0.12960	**0.00776**	2.50740	0.60000	**0.00913**
sg13g2_and3_1	A	0.01860	0.00100	**0.00426**	0.32940	0.06480	**0.00404**	2.50740	0.30000	**0.00587**
	B	0.01860	0.00100	**0.00480**	0.32940	0.06480	**0.00470**	2.50740	0.30000	**0.00617**
	C	0.01860	0.00100	**0.00495**	0.32940	0.06480	**0.00488**	2.50740	0.30000	**0.00638**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**-0.00033**	0.32940	**-0.00040**	2.50740	**-0.00046**
sg13g2_and3_1	0.01860	**-0.00033**	0.32940	**-0.00040**	2.50740	**-0.00046**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**0.00033**	0.32940	**0.00040**	2.50740	**0.00046**
sg13g2_and3_1	0.01860	**0.00033**	0.32940	**0.00040**	2.50740	**0.00046**

AND4x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00218	0.00217	0.00242	0.00238	0.60000
sg13g2_and4_1	0.00218	0.00217	0.00242	0.00238	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_2	986.08400	1055.52000	1709.58000
sg13g2_and4_1	508.39400	599.24000	1574.52000

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	**0.22950**	0.32940	0.12960	**0.68988**	2.50740	0.60000	**2.19601**
	B->X (RR)	0.01860	0.00100	**0.24920**	0.32940	0.12960	**0.71036**	2.50740	0.60000	**2.22369**
	C->X (RR)	0.01860	0.00100	**0.26059**	0.32940	0.12960	**0.71696**	2.50740	0.60000	**2.20215**
	D->X (RR)	0.01860	0.00100	**0.26704**	0.32940	0.12960	**0.72270**	2.50740	0.60000	**2.17903**
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.18544**	0.32940	0.06480	**0.61048**	2.50740	0.30000	**2.03673**
	B->X (RR)	0.01860	0.00100	**0.20533**	0.32940	0.06480	**0.63139**	2.50740	0.30000	**2.07141**
	C->X (RR)	0.01860	0.00100	**0.21691**	0.32940	0.06480	**0.63899**	2.50740	0.30000	**2.05976**
	D->X (RR)	0.01860	0.00100	**0.22329**	0.32940	0.06480	**0.64528**	2.50740	0.30000	**2.04526**

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	**0.11304**	0.32940	0.12960	**0.51920**	2.50740	0.60000	**1.79716**
	B->X (FF)	0.01860	0.00100	**0.12051**	0.32940	0.12960	**0.53121**	2.50740	0.60000	**1.83456**
	C->X (FF)	0.01860	0.00100	**0.12626**	0.32940	0.12960	**0.54091**	2.50740	0.60000	**1.86694**
	D->X (FF)	0.01860	0.00100	**0.13065**	0.32940	0.12960	**0.54886**	2.50740	0.60000	**1.89433**
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.09546**	0.32940	0.06480	**0.47454**	2.50740	0.30000	**1.66140**
	B->X (FF)	0.01860	0.00100	**0.10315**	0.32940	0.06480	**0.48888**	2.50740	0.30000	**1.70504**
	C->X (FF)	0.01860	0.00100	**0.10869**	0.32940	0.06480	**0.49985**	2.50740	0.30000	**1.74099**
	D->X (FF)	0.01860	0.00100	**0.11271**	0.32940	0.06480	**0.50947**	2.50740	0.30000	**1.78014**

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	**0.00983**	0.32940	0.12960	**0.00965**	2.50740	0.60000	**0.01061**
	B	0.01860	0.00100	**0.01113**	0.32940	0.12960	**0.01108**	2.50740	0.60000	**0.01120**
	C	0.01860	0.00100	**0.01171**	0.32940	0.12960	**0.01175**	2.50740	0.60000	**0.01159**
	D	0.01860	0.00100	**0.01174**	0.32940	0.12960	**0.01179**	2.50740	0.60000	**0.01227**
sg13g2_and4_1	A	0.01860	0.00100	**0.00673**	0.32940	0.06480	**0.00651**	2.50740	0.30000	**0.00840**
	B	0.01860	0.00100	**0.00804**	0.32940	0.06480	**0.00787**	2.50740	0.30000	**0.00881**
	C	0.01860	0.00100	**0.00865**	0.32940	0.06480	**0.00853**	2.50740	0.30000	**0.00893**
	D	0.01860	0.00100	**0.00865**	0.32940	0.06480	**0.00854**	2.50740	0.30000	**0.00883**

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	**0.00711**	0.32940	0.12960	**0.00711**	2.50740	0.60000	**0.00887**
	B	0.01860	0.00100	**0.00736**	0.32940	0.12960	**0.00739**	2.50740	0.60000	**0.00853**
	C	0.01860	0.00100	**0.00785**	0.32940	0.12960	**0.00799**	2.50740	0.60000	**0.00936**
	D	0.01860	0.00100	**0.00817**	0.32940	0.12960	**0.00824**	2.50740	0.60000	**0.00924**
sg13g2_and4_1	A	0.01860	0.00100	**0.00440**	0.32940	0.06480	**0.00423**	2.50740	0.30000	**0.00575**
	B	0.01860	0.00100	**0.00465**	0.32940	0.06480	**0.00451**	2.50740	0.30000	**0.00574**
	C	0.01860	0.00100	**0.00514**	0.32940	0.06480	**0.00499**	2.50740	0.30000	**0.00610**
	D	0.01860	0.00100	**0.00544**	0.32940	0.06480	**0.00539**	2.50740	0.30000	**0.00674**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00015**	0.32940	**-0.00016**	2.50740	**-0.00015**
sg13g2_and4_1	0.01860	**-0.00015**	0.32940	**-0.00016**	2.50740	**-0.00015**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00055**	0.32940	**0.00058**	2.50740	**0.00058**
sg13g2_and4_1	0.01860	**0.00056**	0.32940	**0.00058**	2.50740	**0.00058**

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	**-0.00015**	0.32940	**-0.00016**	2.50740	**-0.00015**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**-0.00015**	0.32940	**-0.00016**	2.50740	**-0.00015**

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	**0.00055**	0.32940	**0.00058**	2.50740	**0.00058**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**0.00056**	0.32940	**0.00058**	2.50740	**0.00058**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00034**	0.32940	**-0.00036**	2.50740	**-0.00036**
sg13g2_and4_1	0.01860	**-0.00034**	0.32940	**-0.00036**	2.50740	**-0.00036**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00035**	0.32940	**0.00037**	2.50740	**0.00038**
sg13g2_and4_1	0.01860	**0.00036**	0.32940	**0.00037**	2.50740	**0.00038**

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	**-0.00034**	0.32940	**-0.00036**	2.50740	**-0.00036**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**-0.00034**	0.32940	**-0.00036**	2.50740	**-0.00036**

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	**0.00035**	0.32940	**0.00037**	2.50740	**0.00038**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**0.00036**	0.32940	**0.00037**	2.50740	**0.00038**

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	**0.00091**	0.32940	**0.00093**	2.50740	**0.00093**
sg13g2_and4_1	0.01860	**0.00091**	0.32940	**0.00092**	2.50740	**0.00093**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00011**	0.32940	**-0.00018**	2.50740	**-0.00020**
sg13g2_and4_1	0.01860	**-0.00011**	0.32940	**-0.00017**	2.50740	**-0.00020**

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	**0.00091**	0.32940	**0.00093**	2.50740	**0.00093**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00091**	0.32940	**0.00092**	2.50740	**0.00093**

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	**-0.00011**	0.32940	**-0.00018**	2.50740	**-0.00020**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**-0.00011**	0.32940	**-0.00017**	2.50740	**-0.00020**

AO21x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00271	0.00266	0.00247	0.60000
sg13g2_a21o_1	0.00254	0.00258	0.00234	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_2	549.63600	929.29300	1228.44000
sg13g2_a21o_1	412.50400	650.20900	1047.73000

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	**0.13284**	0.32940	0.12960	**0.56699**	2.50740	0.60000	**1.99615**
	A2->X (RR)	0.01860	0.00100	**0.13881**	0.32940	0.12960	**0.56900**	2.50740	0.60000	**2.00792**
	B1->X (RR)	0.01860	0.00100	**0.08150**	0.32940	0.12960	**0.50881**	2.50740	0.60000	**1.89587**
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.12451**	0.32940	0.06480	**0.54273**	2.50740	0.30000	**1.94415**
	A2->X (RR)	0.01860	0.00100	**0.13074**	0.32940	0.06480	**0.54669**	2.50740	0.30000	**1.96814**
	B1->X (RR)	0.01860	0.00100	**0.07712**	0.32940	0.06480	**0.48725**	2.50740	0.30000	**1.84359**

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	**0.17537**	0.32940	0.12960	**0.57450**	2.50740	0.60000	**1.83118**
	A2->X (FF)	0.01860	0.00100	**0.18932**	0.32940	0.12960	**0.59483**	2.50740	0.60000	**1.87227**
	B1->X (FF)	0.01860	0.00100	**0.17510**	0.32940	0.12960	**0.58469**	2.50740	0.60000	**1.88895**
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.13926**	0.32940	0.06480	**0.51252**	2.50740	0.30000	**1.68097**
	A2->X (FF)	0.01860	0.00100	**0.15155**	0.32940	0.06480	**0.53107**	2.50740	0.30000	**1.72786**
	B1->X (FF)	0.01860	0.00100	**0.13669**	0.32940	0.06480	**0.51621**	2.50740	0.30000	**1.71325**

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	**0.08150**	0.32940	0.12960	**0.50881**	2.50740	0.60000	**1.89587**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.07782**	0.32940	0.12960	**0.49580**	2.50740	0.60000	**1.84435**
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.07712**	0.32940	0.06480	**0.48725**	2.50740	0.30000	**1.84359**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.07201**	0.32940	0.06480	**0.47333**	2.50740	0.30000	**1.78220**

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	**0.17510**	0.32940	0.12960	**0.58469**	2.50740	0.60000	**1.88895**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.15823**	0.32940	0.12960	**0.56427**	2.50740	0.60000	**1.83643**
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.13669**	0.32940	0.06480	**0.51621**	2.50740	0.30000	**1.71325**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.12217**	0.32940	0.06480	**0.49479**	2.50740	0.30000	**1.65829**

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	**0.00882**	0.32940	0.12960	**0.00870**	2.50740	0.60000	**0.01072**
	A2	0.01860	0.00100	**0.00996**	0.32940	0.12960	**0.01002**	2.50740	0.60000	**0.01074**
	B1	0.01860	0.00100	**0.00760**	0.32940	0.12960	**0.00748**	2.50740	0.60000	**0.00968**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00590**	0.32940	0.06480	**0.00567**	2.50740	0.30000	**0.00783**
	A2	0.01860	0.00100	**0.00691**	0.32940	0.06480	**0.00676**	2.50740	0.30000	**0.00824**
	B1	0.01860	0.00100	**0.00468**	0.32940	0.06480	**0.00451**	2.50740	0.30000	**0.00661**

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	**0.00944**	0.32940	0.12960	**0.00935**	2.50740	0.60000	**0.01020**
	A2	0.01860	0.00100	**0.00949**	0.32940	0.12960	**0.00975**	2.50740	0.60000	**0.00999**
	B1	0.01860	0.00100	**0.00751**	0.32940	0.12960	**0.00770**	2.50740	0.60000	**0.00932**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00647**	0.32940	0.06480	**0.00640**	2.50740	0.30000	**0.00718**
	A2	0.01860	0.00100	**0.00650**	0.32940	0.06480	**0.00655**	2.50740	0.30000	**0.00749**
	B1	0.01860	0.00100	**0.00454**	0.32940	0.06480	**0.00455**	2.50740	0.30000	**0.00650**

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	**0.00881**	0.32940	0.12960	**0.00889**	2.50740	0.60000	**0.01181**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00760**	0.32940	0.12960	**0.00748**	2.50740	0.60000	**0.00968**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00573**	0.32940	0.06480	**0.00557**	2.50740	0.30000	**0.00824**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00468**	0.32940	0.06480	**0.00451**	2.50740	0.30000	**0.00661**

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	**0.00770**	0.32940	0.12960	**0.00761**	2.50740	0.60000	**0.00956**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00751**	0.32940	0.12960	**0.00770**	2.50740	0.60000	**0.00932**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00465**	0.32940	0.06480	**0.00457**	2.50740	0.30000	**0.00632**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00454**	0.32940	0.06480	**0.00455**	2.50740	0.30000	**0.00650**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00007**	0.32940	**0.00009**	2.50740	**0.00010**
sg13g2_a21o_1	0.01860	**-0.00003**	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	**-0.00007**	0.32940	**-0.00008**	2.50740	**-0.00008**
sg13g2_a21o_1	0.01860	**0.00003**	0.32940	**0.00003**	2.50740	**0.00002**

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	**0.00031**	0.32940	**0.00020**	2.50740	**0.00016**
	(!A2 * B1)	0.01860	**0.00007**	0.32940	**0.00009**	2.50740	**0.00010**
sg13g2_a21o_1	(A2 * B1)	0.01860	**0.00021**	0.32940	**0.00009**	2.50740	**0.00005**
	(!A2 * B1)	0.01860	**-0.00003**	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	**-0.00006**	0.32940	**-0.00007**	2.50740	**-0.00007**
	(!A2 * B1)	0.01860	**-0.00007**	0.32940	**-0.00008**	2.50740	**-0.00008**
sg13g2_a21o_1	(A2 * B1)	0.01860	**0.00004**	0.32940	**0.00003**	2.50740	**0.00003**
	(!A2 * B1)	0.01860	**0.00003**	0.32940	**0.00003**	2.50740	**0.00002**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00005**	0.32940	**0.00005**	2.50740	**0.00005**
sg13g2_a21o_1	0.01860	**0.00001**	0.32940	**0.00001**	2.50740	**0.00001**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**-0.00004**	0.32940	**-0.00003**	2.50740	**-0.00003**
sg13g2_a21o_1	0.01860	**0.00000**	0.32940	**0.00001**	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	**0.00027**	0.32940	**0.00015**	2.50740	**0.00011**
	(!A1 * B1)	0.01860	**0.00005**	0.32940	**0.00005**	2.50740	**0.00005**
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00024**	0.32940	**0.00011**	2.50740	**0.00007**
	(!A1 * B1)	0.01860	**0.00001**	0.32940	**0.00001**	2.50740	**0.00001**

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	**-0.00002**	0.32940	**-0.00002**	2.50740	**-0.00003**
	(!A1 * B1)	0.01860	**-0.00004**	0.32940	**-0.00003**	2.50740	**-0.00003**
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00002**	0.32940	**0.00002**	2.50740	**0.00001**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00001**	2.50740	**0.00001**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00037**	0.32940	**0.00040**	2.50740	**0.00041**
sg13g2_a21o_1	0.01860	**0.00030**	0.32940	**0.00033**	2.50740	**0.00033**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00045**	0.32940	**0.00044**	2.50740	**0.00045**
sg13g2_a21o_1	0.01860	**0.00052**	0.32940	**0.00052**	2.50740	**0.00053**

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	**0.00037**	0.32940	**0.00040**	2.50740	**0.00041**
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00030**	0.32940	**0.00033**	2.50740	**0.00033**

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	**0.00045**	0.32940	**0.00044**	2.50740	**0.00045**
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00052**	0.32940	**0.00052**	2.50740	**0.00053**

BTLx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00544	0.01490	2.40000
sg13g2_ebufn_4	0.00279	0.00905	1.20000
sg13g2_ebufn_2	0.00246	0.00560	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	1655.51000	2491.41000	4310.14000
sg13g2_ebufn_4	1066.77000	1399.01000	2222.85000
sg13g2_ebufn_2	765.92600	931.97500	1199.63000

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	0.01631	**0.09599**	0.32940	0.53371	**0.85484**	2.50740	2.41531	**3.40765**
	TE_B->Z (RR)	0.01860	0.01631	**0.09514**	0.32940	0.53371	**0.22863**	2.50740	2.41531	**0.57624**
	TE_B->Z (FR)	0.01860	0.01631	**0.05035**	0.32940	0.53371	**0.76553**	2.50740	2.41531	**3.75376**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.00868	**0.09969**	0.32940	0.26688	**0.85700**	2.50740	1.20768	**3.41416**
	TE_B->Z (RR)	0.01860	0.00868	**0.07572**	0.32940	0.26688	**0.18248**	2.50740	1.20768	**0.42217**
	TE_B->Z (FR)	0.01860	0.00868	**0.05116**	0.32940	0.26688	**0.76448**	2.50740	1.20768	**3.74869**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00488	**0.08586**	0.32940	0.13348	**0.81354**	2.50740	0.60388	**3.28623**
	TE_B->Z (RR)	0.01860	0.00488	**0.06623**	0.32940	0.13348	**0.15989**	2.50740	0.60388	**0.35062**
	TE_B->Z (FR)	0.01860	0.00488	**0.05097**	0.32940	0.13348	**0.76028**	2.50740	0.60388	**3.73041**

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	0.02944	**0.13144**	0.32940	0.54683	**0.73063**	2.50740	2.42844	**2.74101**
	TE_B->Z (RF)	0.01860	0.02944	**0.06651**	0.32940	0.54683	**-0.15502**	2.50740	2.42844	**-1.84106**
	TE_B->Z (FF)	0.01860	0.02944	**0.14961**	0.32940	0.54683	**0.95473**	2.50740	2.42844	**3.70255**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01548	**0.13573**	0.32940	0.27368	**0.73459**	2.50740	1.21448	**2.75166**
	TE_B->Z (RF)	0.01860	0.01548	**0.04941**	0.32940	0.27368	**-0.15307**	2.50740	1.21448	**-1.83904**
	TE_B->Z (FF)	0.01860	0.01548	**0.11304**	0.32940	0.27368	**0.88748**	2.50740	1.21448	**3.50164**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00842	**0.10191**	0.32940	0.13702	**0.67881**	2.50740	0.60742	**2.58599**
	TE_B->Z (RF)	0.01860	0.00842	**0.03581**	0.32940	0.13702	**-0.17823**	2.50740	0.60742	**-1.86489**
	TE_B->Z (FF)	0.01860	0.00842	**0.09557**	0.32940	0.13702	**0.84142**	2.50740	0.60742	**3.37623**

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	0.01631	**0.00959**	0.32940	0.53371	**0.01536**	2.50740	2.41531	**0.01483**
	TE_B	0.01860	0.01631	**0.00835**	0.32940	0.53371	**0.00702**	2.50740	2.41531	**0.00481**
sg13g2_ebufn_4	A	0.01860	0.00868	**0.00488**	0.32940	0.26688	**0.00770**	2.50740	1.20768	**0.00661**
	TE_B	0.01860	0.00868	**0.00414**	0.32940	0.26688	**0.00343**	2.50740	1.20768	**0.00237**
sg13g2_ebufn_2	A	0.01860	0.00488	**0.00267**	0.32940	0.13348	**0.00393**	2.50740	0.60388	**0.00346**
	TE_B	0.01860	0.00488	**0.00206**	0.32940	0.13348	**0.00166**	2.50740	0.60388	**0.00112**

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	0.02944	**0.02617**	0.32940	0.54683	**0.02621**	2.50740	2.42844	**0.02175**
	TE_B	0.01860	0.02944	**0.00923**	0.32940	0.54683	**0.07453**	2.50740	2.42844	**0.31323**
sg13g2_ebufn_4	A	0.01860	0.01548	**0.01313**	0.32940	0.27368	**0.01297**	2.50740	1.21448	**0.01133**
	TE_B	0.01860	0.01548	**0.00470**	0.32940	0.27368	**0.03717**	2.50740	1.21448	**0.15657**
sg13g2_ebufn_2	A	0.01860	0.00842	**0.00655**	0.32940	0.13702	**0.00656**	2.50740	0.60742	**0.00526**
	TE_B	0.01860	0.00842	**0.00239**	0.32940	0.13702	**0.01863**	2.50740	0.60742	**0.07844**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.02315**	0.32940	**0.02278**	2.50740	**0.02893**
sg13g2_ebufn_4	0.01860	**0.01182**	0.32940	**0.01160**	2.50740	**0.01462**
sg13g2_ebufn_2	0.01860	**0.00643**	0.32940	**0.00628**	2.50740	**0.00907**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.00811**	0.32940	**0.00791**	2.50740	**0.01364**
sg13g2_ebufn_4	0.01860	**0.00437**	0.32940	**0.00427**	2.50740	**0.00704**
sg13g2_ebufn_2	0.01860	**0.00282**	0.32940	**0.00275**	2.50740	**0.00536**

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	**-0.00235**	0.32940	**-0.00354**	2.50740	**-0.00153**
sg13g2_ebufn_4	0.01860	**-0.00019**	0.32940	**-0.00096**	2.50740	**0.00176**
sg13g2_ebufn_2	0.01860	**0.00053**	0.32940	**0.00006**	2.50740	**0.00267**

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	**0.03608**	0.32940	**0.03603**	2.50740	**0.03879**
sg13g2_ebufn_4	0.01860	**0.01883**	0.32940	**0.01886**	2.50740	**0.02174**
sg13g2_ebufn_2	0.01860	**0.01009**	0.32940	**0.01015**	2.50740	**0.01274**

BUx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.01604	4.80000
sg13g2_buf_8	0.00805	2.40000
sg13g2_buf_4	0.00349	1.20000
sg13g2_buf_2	0.00246	0.60000
sg13g2_buf_1	0.00218	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	5028.73000	6741.42000	8454.12000
sg13g2_buf_8	2514.38000	3370.78000	4227.18000
sg13g2_buf_4	1257.51000	1653.21000	2048.91000
sg13g2_buf_2	697.49800	882.31900	1067.14000
sg13g2_buf_1	494.47500	531.75500	569.03400

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	**0.08171**	0.32940	1.03680	**0.51206**	2.50740	4.80000	**1.90972**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.08117**	0.32940	0.51840	**0.51044**	2.50740	2.40000	**1.90801**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.10567**	0.32940	0.25920	**0.55156**	2.50740	1.20000	**2.05475**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.08192**	0.32940	0.12960	**0.50614**	2.50740	0.60000	**1.89942**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.07275**	0.32940	0.06480	**0.47820**	2.50740	0.30000	**1.81106**

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	**0.09256**	0.32940	1.03680	**0.48980**	2.50740	4.80000	**1.70973**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.09192**	0.32940	0.51840	**0.48890**	2.50740	2.40000	**1.71048**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.09063**	0.32940	0.25920	**0.48562**	2.50740	1.20000	**1.68509**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.08929**	0.32940	0.12960	**0.47601**	2.50740	0.60000	**1.66907**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.07814**	0.32940	0.06480	**0.44315**	2.50740	0.30000	**1.57252**

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	**0.05875**	0.32940	1.03680	**0.05923**	2.50740	4.80000	**0.07786**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.02899**	0.32940	0.51840	**0.02917**	2.50740	2.40000	**0.03971**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01402**	0.32940	0.25920	**0.01370**	2.50740	1.20000	**0.01715**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00766**	0.32940	0.12960	**0.00759**	2.50740	0.60000	**0.01006**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00463**	0.32940	0.06480	**0.00457**	2.50740	0.30000	**0.00644**

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	**0.05660**	0.32940	1.03680	**0.05879**	2.50740	4.80000	**0.07154**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.02795**	0.32940	0.51840	**0.02896**	2.50740	2.40000	**0.03428**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01405**	0.32940	0.25920	**0.01465**	2.50740	1.20000	**0.01636**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00748**	0.32940	0.12960	**0.00761**	2.50740	0.60000	**0.00930**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00459**	0.32940	0.06480	**0.00461**	2.50740	0.30000	**0.00609**

DECAPx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	98.63550	98.63550	98.63550
sg13g2_decap_8	197.30100	197.30100	197.30100

DFFRRx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00154	0.00556	0.00267	0.60000	0.60000
sg13g2_dfrbp_1	0.00166	0.00611	0.00260	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	2762.66000	3213.97000	3740.78000
sg13g2_dfrbp_1	2077.23000	2501.97000	2984.47000

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	**0.37473**	0.32940	0.12960	**0.77143**	2.50740	0.60000	**2.16841**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.30256**	0.32940	0.06480	**0.70833**	2.50740	0.30000	**2.08924**

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	**0.32651**	0.32940	0.12960	**0.69605**	2.50740	0.60000	**1.90082**
	RESET_B->Q (FF)	0.01860	0.00100	**0.44010**	0.32940	0.12960	**0.83474**	2.50740	0.60000	**2.27044**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.29198**	0.32940	0.06480	**0.66377**	2.50740	0.30000	**1.86720**
	RESET_B->Q (FF)	0.01860	0.00100	**0.38905**	0.32940	0.06480	**0.78352**	2.50740	0.30000	**2.19485**

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	**0.21695**	0.32940	0.12960	**0.67938**	2.50740	0.60000	**2.03619**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.33294**	0.32940	0.12960	**0.81534**	2.50740	0.60000	**2.40281**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.22335**	0.32940	0.06480	**0.67128**	2.50740	0.30000	**2.02722**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.32133**	0.32940	0.06480	**0.78767**	2.50740	0.30000	**2.35272**

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	**0.24193**	0.32940	0.12960	**0.70864**	2.50740	0.60000	**1.95527**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.22593**	0.32940	0.06480	**0.65963**	2.50740	0.30000	**1.89546**

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	**-0.07091**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.37189**
	setup	CLK (R)	0.01860	0.01860	**0.21762**	1.26300	1.26300	**0.41555**	2.50740	2.50740	**0.53423**
sg13g2_dfrbp_1	hold	CLK (R)	0.01860	0.01860	**-0.07825**	1.26300	1.26300	**-0.28333**	2.50740	2.50740	**-0.39255**
	setup	CLK (R)	0.01860	0.01860	**0.20784**	1.26300	1.26300	**0.41825**	2.50740	2.50740	**0.54604**

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	**-0.02934**	1.26300	1.26300	**-0.16730**	2.50740	2.50740	**-0.26269**
	setup	CLK (R)	0.01860	0.01860	**0.20295**	1.26300	1.26300	**0.36158**	2.50740	2.50740	**0.48995**
sg13g2_dfrbp_1	hold	CLK (R)	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**-0.15381**	2.50740	2.50740	**-0.24203**
	setup	CLK (R)	0.01860	0.01860	**0.19073**	1.26300	1.26300	**0.35079**	2.50740	2.50740	**0.47815**

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	**0.22740**	1.26300	1.26300	**0.43713**	2.50740	2.50740	**0.59916**
	removal	CLK (R)	0.01860	0.01860	**-0.17605**	1.26300	1.26300	**-0.39666**	2.50740	2.50740	**-0.54308**
sg13g2_dfrbp_1	recovery	CLK (R)	0.01860	0.01860	**0.22007**	1.26300	1.26300	**0.43713**	2.50740	2.50740	**0.60802**
	removal	CLK (R)	0.01860	0.01860	**-0.16627**	1.26300	1.26300	**-0.38856**	2.50740	2.50740	**-0.54308**

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	**0.02937**	0.32940	0.12960	**0.10519**	2.50740	0.60000	**0.38331**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02428**	0.32940	0.06480	**0.06165**	2.50740	0.30000	**0.20154**

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	**0.02988**	0.32940	0.12960	**0.10551**	2.50740	0.60000	**0.38229**
	RESET_B	0.01860	0.00100	**0.02228**	0.32940	0.12960	**0.09795**	2.50740	0.60000	**0.37198**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02369**	0.32940	0.06480	**0.06102**	2.50740	0.30000	**0.20132**
	RESET_B	0.01860	0.00100	**0.01581**	0.32940	0.06480	**0.05317**	2.50740	0.30000	**0.19056**

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	**0.02989**	0.32940	0.12960	**0.10585**	2.50740	0.60000	**0.38359**
	RESET_B	0.01860	0.00100	**0.02232**	0.32940	0.12960	**0.09837**	2.50740	0.60000	**0.37376**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02368**	0.32940	0.06480	**0.06124**	2.50740	0.30000	**0.20176**
	RESET_B	0.01860	0.00100	**0.01582**	0.32940	0.06480	**0.05341**	2.50740	0.30000	**0.19158**

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	**0.02937**	0.32940	0.12960	**0.10473**	2.50740	0.60000	**0.38135**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02427**	0.32940	0.06480	**0.06146**	2.50740	0.30000	**0.20090**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00149**	0.32940	**0.00142**	2.50740	**0.00259**
sg13g2_dfrbp_1	0.01860	**0.00158**	0.32940	**0.00150**	2.50740	**0.00264**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00115**	0.32940	**0.00105**	2.50740	**0.00218**
sg13g2_dfrbp_1	0.01860	**0.00127**	0.32940	**0.00117**	2.50740	**0.00227**

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	**0.00149**	0.32940	**0.00142**	2.50740	**0.00259**
	(!CLK * RESET_B)	0.01860	**0.00959**	0.32940	**0.00943**	2.50740	**0.01055**
	(!CLK * !RESET_B)	0.01860	**0.00000**	0.32940	**-0.00001**	2.50740	**-0.00001**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00158**	0.32940	**0.00150**	2.50740	**0.00264**
	(!CLK * RESET_B)	0.01860	**0.00815**	0.32940	**0.00801**	2.50740	**0.00919**
	(!CLK * !RESET_B)	0.01860	**0.00010**	0.32940	**0.00009**	2.50740	**0.00009**

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	**0.00115**	0.32940	**0.00105**	2.50740	**0.00218**
	(!CLK * RESET_B)	0.01860	**0.00737**	0.32940	**0.00721**	2.50740	**0.00839**
	(!CLK * !RESET_B)	0.01860	**0.00000**	0.32940	**0.00001**	2.50740	**0.00001**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00127**	0.32940	**0.00117**	2.50740	**0.00227**
	(!CLK * RESET_B)	0.01860	**0.00683**	0.32940	**0.00667**	2.50740	**0.00785**
	(!CLK * !RESET_B)	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00001**

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	**0.00328**	0.32940	**0.00319**	2.50740	**0.00394**
sg13g2_dfrbp_1	0.01860	**0.00363**	0.32940	**0.00354**	2.50740	**0.00427**

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	**0.00725**	0.32940	**0.00683**	2.50740	**0.00790**
sg13g2_dfrbp_1	0.01860	**0.00642**	0.32940	**0.00601**	2.50740	**0.00711**

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	**0.00328**	0.32940	**0.00319**	2.50740	**0.00394**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00139**	0.32940	**0.00138**	2.50740	**0.00137**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01166**	0.32940	**0.01137**	2.50740	**0.01251**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00137**	0.32940	**0.00135**	2.50740	**0.00135**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00363**	0.32940	**0.00354**	2.50740	**0.00427**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00174**	0.32940	**0.00173**	2.50740	**0.00172**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01052**	0.32940	**0.01025**	2.50740	**0.01136**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00178**	0.32940	**0.00176**	2.50740	**0.00175**

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	**0.02913**	0.32940	**0.02846**	2.50740	**0.03108**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00087**	0.32940	**-0.00102**	2.50740	**-0.00108**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00725**	0.32940	**0.00683**	2.50740	**0.00790**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00109**	0.32940	**-0.00121**	2.50740	**-0.00125**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.02166**	0.32940	**0.02099**	2.50740	**0.02354**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00121**	0.32940	**-0.00136**	2.50740	**-0.00142**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00642**	0.32940	**0.00601**	2.50740	**0.00711**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00129**	0.32940	**-0.00142**	2.50740	**-0.00147**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00928**	0.32940	**0.00896**	2.50740	**0.01208**
sg13g2_dfrbp_1	0.01860	**0.00902**	0.32940	**0.00870**	2.50740	**0.01157**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01684**	0.32940	**0.01630**	2.50740	**0.01934**
sg13g2_dfrbp_1	0.01860	**0.01550**	0.32940	**0.01510**	2.50740	**0.01780**

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	**0.00894**	0.32940	**0.00863**	2.50740	**0.01177**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00938**	0.32940	**0.00906**	2.50740	**0.01223**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00888**	0.32940	**0.00857**	2.50740	**0.01169**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00928**	0.32940	**0.00896**	2.50740	**0.01208**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.00927**	0.32940	**0.00891**	2.50740	**0.01184**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00902**	0.32940	**0.00870**	2.50740	**0.01157**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00892**	0.32940	**0.00857**	2.50740	**0.01146**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00890**	0.32940	**0.00858**	2.50740	**0.01144**

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	**0.01809**	0.32940	**0.01755**	2.50740	**0.02060**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.01684**	0.32940	**0.01630**	2.50740	**0.01934**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00874**	0.32940	**0.00838**	2.50740	**0.01141**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00176**	0.32940	**0.03002**	2.50740	**0.03260**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00868**	0.32940	**0.00833**	2.50740	**0.01135**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00872**	0.32940	**0.00836**	2.50740	**0.01139**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01700**	0.32940	**0.01660**	2.50740	**0.01930**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.01550**	0.32940	**0.01510**	2.50740	**0.01780**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00895**	0.32940	**0.00870**	2.50740	**0.01136**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00162**	0.32940	**0.02474**	2.50740	**0.02699**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00889**	0.32940	**0.00864**	2.50740	**0.01130**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00892**	0.32940	**0.00867**	2.50740	**0.01133**

DLHQ

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00214	0.00218	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	1392.37000	1694.91000	2124.80000

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	**0.27054**	0.32940	0.06480	**0.67378**	2.50740	0.30000	**1.99462**
	GATE->Q (RR)	0.01860	0.00100	**0.23093**	0.32940	0.06480	**0.63359**	2.50740	0.30000	**1.94705**

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	**0.24077**	0.32940	0.06480	**0.60236**	2.50740	0.30000	**1.71530**
	GATE->Q (RF)	0.01860	0.00100	**0.24833**	0.32940	0.06480	**0.61393**	2.50740	0.30000	**1.74018**

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	**-0.14427**	1.26300	1.26300	**-0.33730**	2.50740	2.50740	**-0.43093**
	setup	GATE (F)	0.01860	0.01860	**0.16383**	1.26300	1.26300	**0.42095**	2.50740	2.50740	**0.56374**

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	**-0.06113**	1.26300	1.26300	**-0.03508**	2.50740	2.50740	**-0.00590**
	setup	GATE (F)	0.01860	0.01860	**0.08314**	1.26300	1.26300	**0.05397**	2.50740	2.50740	**0.02656**

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	**0.01152**	0.32940	0.06480	**0.01170**	2.50740	0.30000	**0.01135**
	GATE	0.01860	0.00100	**0.00932**	0.32940	0.06480	**0.00935**	2.50740	0.30000	**0.00936**

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	**0.01193**	0.32940	0.06480	**0.01217**	2.50740	0.30000	**0.01180**
	GATE	0.01860	0.00100	**0.01020**	0.32940	0.06480	**0.01057**	2.50740	0.30000	**0.01033**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00275**	0.32940	**0.00260**	2.50740	**0.00484**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00307**	0.32940	**0.00293**	2.50740	**0.00498**

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	**0.00336**	0.32940	**0.00319**	2.50740	**0.00538**
	(!GATE * !Q)	0.01860	**0.00275**	0.32940	**0.00260**	2.50740	**0.00484**

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	**0.00285**	0.32940	**0.00276**	2.50740	**0.00486**
	(!GATE * !Q)	0.01860	**0.00307**	0.32940	**0.00293**	2.50740	**0.00498**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00717**	0.32940	**0.00690**	2.50740	**0.00970**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00156**	0.32940	**0.01215**	2.50740	**0.01481**

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	**0.00717**	0.32940	**0.00690**	2.50740	**0.00970**

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	**0.00156**	0.32940	**0.01215**	2.50740	**0.01481**

DLHRQ

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00202	0.00273	0.00211	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	1556.96000	1833.49000	2128.17000

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	**0.28800**	0.32940	0.06480	**0.69856**	2.50740	0.30000	**2.01712**
	GATE->Q (RR)	0.01860	0.00100	**0.25971**	0.32940	0.06480	**0.67196**	2.50740	0.30000	**1.98641**

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	**0.25589**	0.32940	0.06480	**0.62065**	2.50740	0.30000	**1.74096**
	GATE->Q (RF)	0.01860	0.00100	**0.26681**	0.32940	0.06480	**0.63851**	2.50740	0.30000	**1.78324**
	RESET_B->Q (FF)	0.01860	0.00100	**0.09668**	0.32940	0.06480	**0.48155**	2.50740	0.30000	**1.69846**

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	**-0.12226**	1.26300	1.26300	**-0.31031**	2.50740	2.50740	**-0.38960**
	setup	GATE (F)	0.01860	0.01860	**0.15894**	1.26300	1.26300	**0.39126**	2.50740	2.50740	**0.51652**

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	**-0.06847**	1.26300	1.26300	**-0.03238**	2.50740	2.50740	**-0.00295**
	setup	GATE (F)	0.01860	0.01860	**0.09536**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.02361**

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	**-0.01467**	1.26300	1.26300	**-0.10254**	2.50740	2.50740	**-0.15643**
	removal	GATE (F)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.22727**

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	**0.00154**	0.32940	0.06480	**0.00065**	2.50740	0.30000	**0.00042**
	GATE	0.01860	0.00100	**0.00959**	0.32940	0.06480	**0.00962**	2.50740	0.30000	**0.00953**

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	**0.00553**	0.32940	0.06480	**-0.00065**	2.50740	0.30000	**-0.00042**
	GATE	0.01860	0.00100	**0.00958**	0.32940	0.06480	**0.00997**	2.50740	0.30000	**0.00972**
	RESET_B	0.01860	0.00100	**0.00589**	0.32940	0.06480	**0.00600**	2.50740	0.30000	**0.00830**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01276**	0.32940	**0.01372**	2.50740	**0.01601**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00853**	0.32940	**0.01986**	2.50740	**0.02194**

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	**0.00108**	0.32940	**0.00094**	2.50740	**0.00314**
	!RESET_B	0.01860	**0.01276**	0.32940	**0.01372**	2.50740	**0.01601**

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	**0.00376**	0.32940	**0.00368**	2.50740	**0.00575**
	!RESET_B	0.01860	**0.00853**	0.32940	**0.01986**	2.50740	**0.02194**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00013**	0.32940	**0.00011**	2.50740	**0.00011**

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	**0.00011**	2.50740	**0.00008**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00013**	0.32940	**0.00011**	2.50740	**0.00011**
	(!D * !GATE * !Q)	0.01860	**0.00013**	0.32940	**0.00011**	2.50740	**0.00011**

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	**0.00020**	0.32940	**0.00011**	2.50740	**0.00008**
	(!D * !GATE * !Q)	0.01860	**0.00020**	0.32940	**0.00011**	2.50740	**0.00008**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00738**	0.32940	**0.00711**	2.50740	**0.00987**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00157**	0.32940	**0.01234**	2.50740	**0.01494**

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	**0.00967**	0.32940	**0.00924**	2.50740	**0.01210**
	(!D * !RESET_B * !Q)	0.01860	**0.00738**	0.32940	**0.00711**	2.50740	**0.00987**

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	**0.00950**	0.32940	**0.00909**	2.50740	**0.01196**
	(!D * RESET_B * !Q)	0.01860	**0.00157**	0.32940	**0.01234**	2.50740	**0.01494**
	(!D * !RESET_B * !Q)	0.01860	**0.00162**	0.32940	**0.01239**	2.50740	**0.01499**

DLHR

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00196	0.00289	0.00214	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	2052.81000	2357.27000	2640.92000

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	**0.31201**	0.32940	0.06480	**0.73407**	2.50740	0.30000	**2.04878**
	GATE->Q (RR)	0.01860	0.00100	**0.28504**	0.32940	0.06480	**0.70951**	2.50740	0.30000	**2.02462**

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	**0.26540**	0.32940	0.06480	**0.63546**	2.50740	0.30000	**1.74835**
	GATE->Q (RF)	0.01860	0.00100	**0.27654**	0.32940	0.06480	**0.65453**	2.50740	0.30000	**1.79338**
	RESET_B->Q (FF)	0.01860	0.00100	**0.10556**	0.32940	0.06480	**0.50326**	2.50740	0.30000	**1.75930**

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	**0.32590**	0.32940	0.06480	**0.71678**	2.50740	0.30000	**1.98192**
	GATE->Q_N (RR)	0.01860	0.00100	**0.33727**	0.32940	0.06480	**0.73576**	2.50740	0.30000	**2.02551**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.16568**	0.32940	0.06480	**0.58090**	2.50740	0.30000	**1.93789**

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	**0.38001**	0.32940	0.06480	**0.73521**	2.50740	0.30000	**1.89639**
	GATE->Q_N (RF)	0.01860	0.00100	**0.35354**	0.32940	0.06480	**0.71075**	2.50740	0.30000	**1.87383**

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	**-0.13204**	1.26300	1.26300	**-0.31571**	2.50740	2.50740	**-0.39551**
	setup	GATE (F)	0.01860	0.01860	**0.17361**	1.26300	1.26300	**0.39396**	2.50740	2.50740	**0.52537**

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	**-0.07091**	1.26300	1.26300	**-0.03238**	2.50740	2.50740	**-0.00295**
	setup	GATE (F)	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.02361**

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	**-0.03778**	2.50740	2.50740	**-0.05903**
	removal	GATE (F)	0.01860	0.01860	**0.03423**	1.26300	1.26300	**0.11603**	2.50740	2.50740	**0.14463**

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	**0.00400**	0.32940	0.06480	**0.00376**	2.50740	0.30000	**0.00355**
	GATE	0.01860	0.00100	**0.00790**	0.32940	0.06480	**0.00813**	2.50740	0.30000	**0.00806**

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	**0.00593**	0.32940	0.06480	**0.00041**	2.50740	0.30000	**-0.00023**
	GATE	0.01860	0.00100	**0.00792**	0.32940	0.06480	**0.00814**	2.50740	0.30000	**0.00814**
	RESET_B	0.01860	0.00100	**0.00596**	0.32940	0.06480	**0.00598**	2.50740	0.30000	**0.00678**

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	**0.00593**	0.32940	0.06480	**0.00056**	2.50740	0.30000	**0.00023**
	GATE	0.01860	0.00100	**0.01147**	0.32940	0.06480	**0.01172**	2.50740	0.30000	**0.01313**
	RESET_B	0.01860	0.00100	**0.00596**	0.32940	0.06480	**0.00608**	2.50740	0.30000	**0.00750**

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	**0.00399**	0.32940	0.06480	**0.00366**	2.50740	0.30000	**0.00329**
	GATE	0.01860	0.00100	**0.00790**	0.32940	0.06480	**0.00803**	2.50740	0.30000	**0.00798**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01242**	0.32940	**0.01335**	2.50740	**0.01565**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00832**	0.32940	**0.01956**	2.50740	**0.02170**

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	**0.00275**	0.32940	**0.00261**	2.50740	**0.00483**
	!RESET_B	0.01860	**0.01242**	0.32940	**0.01335**	2.50740	**0.01565**

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	**0.00534**	0.32940	**0.00527**	2.50740	**0.00737**
	!RESET_B	0.01860	**0.00832**	0.32940	**0.01956**	2.50740	**0.02170**

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	**0.00005**	0.32940	**0.00002**	2.50740	**0.00001**

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	**0.00027**	0.32940	**0.00019**	2.50740	**0.00016**

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	**0.00005**	0.32940	**0.00002**	2.50740	**0.00001**
	(!D * !GATE * !Q)	0.01860	**0.00005**	0.32940	**0.00002**	2.50740	**0.00001**

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	**0.00027**	0.32940	**0.00019**	2.50740	**0.00016**
	(!D * !GATE * !Q)	0.01860	**0.00027**	0.32940	**0.00019**	2.50740	**0.00016**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00711**	0.32940	**0.00685**	2.50740	**0.00962**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00160**	0.32940	**0.01213**	2.50740	**0.01475**

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	**0.00939**	0.32940	**0.00898**	2.50740	**0.01186**
	(!D * !RESET_B * !Q)	0.01860	**0.00711**	0.32940	**0.00685**	2.50740	**0.00962**

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	**0.00973**	0.32940	**0.00931**	2.50740	**0.01219**
	(!D * RESET_B * !Q)	0.01860	**0.00160**	0.32940	**0.01213**	2.50740	**0.01475**
	(!D * !RESET_B * !Q)	0.01860	**0.00165**	0.32940	**0.01217**	2.50740	**0.01479**

DLLRQ

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00193	0.00272	0.00208	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	1451.47000	1806.15000	2128.29000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.28651**	0.32940	0.06480	**0.69615**	2.50740	0.30000	**2.01263**
	GATE_N->Q (FR)	0.01860	0.00100	**0.32381**	0.32940	0.06480	**0.74396**	2.50740	0.30000	**2.07157**
	RESET_B->Q (RR)	0.01860	0.00100	**0.12753**	0.32940	0.06480	**0.53148**	2.50740	0.30000	**1.91124**

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	**0.25466**	0.32940	0.06480	**0.61717**	2.50740	0.30000	**1.73222**
	GATE_N->Q (FF)	0.01860	0.00100	**0.24377**	0.32940	0.06480	**0.62341**	2.50740	0.30000	**1.83957**
	RESET_B->Q (FF)	0.01860	0.00100	**0.09764**	0.32940	0.06480	**0.48108**	2.50740	0.30000	**1.69421**

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	**-0.12470**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.15938**
	setup	GATE_N (R)	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.15111**	2.50740	2.50740	**0.18595**

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	**-0.13204**	1.26300	1.26300	**-0.32650**	2.50740	2.50740	**-0.41026**
	setup	GATE_N (R)	0.01860	0.01860	**0.15405**	1.26300	1.26300	**0.39936**	2.50740	2.50740	**0.53128**

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	**-0.04157**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.15938**
	removal	GATE_N (R)	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.19775**

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	**0.00468**	0.32940	0.06480	**0.00506**	2.50740	0.30000	**0.00509**
	GATE_N	0.01860	0.00100	**0.01582**	0.32940	0.06480	**0.00512**	2.50740	0.30000	**0.00500**
	RESET_B	0.01860	0.00100	**0.00625**	0.32940	0.06480	**0.00619**	2.50740	0.30000	**0.00808**

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	**0.01292**	0.32940	0.06480	**0.00028**	2.50740	0.30000	**-0.00009**
	GATE_N	0.01860	0.00100	**0.01496**	0.32940	0.06480	**0.00417**	2.50740	0.30000	**0.00417**
	RESET_B	0.01860	0.00100	**0.00496**	0.32940	0.06480	**0.00506**	2.50740	0.30000	**0.00735**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00954**	0.32940	**0.00923**	2.50740	**0.01142**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00123**	0.32940	**0.01396**	2.50740	**0.01611**

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	**0.00102**	0.32940	**0.00087**	2.50740	**0.00309**
	!RESET_B	0.01860	**0.00954**	0.32940	**0.00923**	2.50740	**0.01142**

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	**0.00476**	0.32940	**0.00468**	2.50740	**0.00678**
	!RESET_B	0.01860	**0.00123**	0.32940	**0.01396**	2.50740	**0.01611**

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	**0.00117**	0.32940	**0.00115**	2.50740	**0.00115**

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	**0.00126**	0.32940	**0.00118**	2.50740	**0.00114**

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	**0.00012**	0.32940	**0.00010**	2.50740	**0.00010**
	(!D * GATE_N * !Q)	0.01860	**0.00117**	0.32940	**0.00115**	2.50740	**0.00115**

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	**0.00021**	0.32940	**0.00012**	2.50740	**0.00009**
	(!D * GATE_N * !Q)	0.01860	**0.00126**	0.32940	**0.00118**	2.50740	**0.00114**

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	**0.00729**	0.32940	**0.00704**	2.50740	**0.00980**

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	**0.00157**	0.32940	**0.01226**	2.50740	**0.01489**

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	**0.01055**	0.32940	**0.01017**	2.50740	**0.01280**
	(!D * !RESET_B * !Q)	0.01860	**0.00729**	0.32940	**0.00704**	2.50740	**0.00980**

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	**0.01013**	0.32940	**0.00983**	2.50740	**0.01249**
	(!D * RESET_B * !Q)	0.01860	**0.00157**	0.32940	**0.01226**	2.50740	**0.01489**
	(!D * !RESET_B * !Q)	0.01860	**0.00162**	0.32940	**0.01231**	2.50740	**0.01494**

DLLR

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00203	0.00285	0.00221	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	1946.83000	2405.45000	2656.45000

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	**0.31497**	0.32940	0.06480	**0.73589**	2.50740	0.30000	**2.04991**
	GATE_N->Q (FR)	0.01860	0.00100	**0.35184**	0.32940	0.06480	**0.78490**	2.50740	0.30000	**2.11350**

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	**0.26855**	0.32940	0.06480	**0.63790**	2.50740	0.30000	**1.74979**
	GATE_N->Q (FF)	0.01860	0.00100	**0.25900**	0.32940	0.06480	**0.64707**	2.50740	0.30000	**1.86543**
	RESET_B->Q (FF)	0.01860	0.00100	**0.10561**	0.32940	0.06480	**0.51077**	2.50740	0.30000	**1.76543**

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	**0.32887**	0.32940	0.06480	**0.71904**	2.50740	0.30000	**1.98176**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.31950**	0.32940	0.06480	**0.72828**	2.50740	0.30000	**2.09751**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.16691**	0.32940	0.06480	**0.58294**	2.50740	0.30000	**1.94805**

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	**0.38265**	0.32940	0.06480	**0.73742**	2.50740	0.30000	**1.89782**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.41999**	0.32940	0.06480	**0.78643**	2.50740	0.30000	**1.96039**

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	**-0.13693**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.16824**
	setup	GATE_N (R)	0.01860	0.01860	**0.14916**	1.26300	1.26300	**0.16190**	2.50740	2.50740	**0.19480**

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	**-0.13938**	1.26300	1.26300	**-0.32920**	2.50740	2.50740	**-0.41321**
	setup	GATE_N (R)	0.01860	0.01860	**0.16138**	1.26300	1.26300	**0.40206**	2.50740	2.50740	**0.53718**

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	**-0.02445**	1.26300	1.26300	**-0.07825**	2.50740	2.50740	**-0.07674**
	removal	GATE_N (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.12952**	2.50740	2.50740	**0.12692**

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	**0.00757**	0.32940	0.06480	**0.04497**	2.50740	0.30000	**0.18172**
	GATE_N	0.01860	0.00100	**0.01765**	0.32940	0.06480	**0.05551**	2.50740	0.30000	**0.19265**

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	**0.01227**	0.32940	0.06480	**0.03771**	2.50740	0.30000	**0.17347**
	GATE_N	0.01860	0.00100	**0.01642**	0.32940	0.06480	**0.05388**	2.50740	0.30000	**0.19029**
	RESET_B	0.01860	0.00100	**0.01758**	0.32940	0.06480	**0.05457**	2.50740	0.30000	**0.19261**

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	**0.01230**	0.32940	0.06480	**0.03801**	2.50740	0.30000	**0.17479**
	GATE_N	0.01860	0.00100	**0.02323**	0.32940	0.06480	**0.06069**	2.50740	0.30000	**0.20053**
	RESET_B	0.01860	0.00100	**0.01864**	0.32940	0.06480	**0.05581**	2.50740	0.30000	**0.19517**

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	**0.00756**	0.32940	0.06480	**0.04476**	2.50740	0.30000	**0.18119**
	GATE_N	0.01860	0.00100	**0.01764**	0.32940	0.06480	**0.05532**	2.50740	0.30000	**0.19148**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01380**	0.32940	**0.01404**	2.50740	**0.01636**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00841**	0.32940	**0.02039**	2.50740	**0.02259**

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	**0.00280**	0.32940	**0.00264**	2.50740	**0.00487**
	!RESET_B	0.01860	**0.01380**	0.32940	**0.01404**	2.50740	**0.01636**

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	**0.00267**	0.32940	**0.00260**	2.50740	**0.00470**
	!RESET_B	0.01860	**0.00841**	0.32940	**0.02039**	2.50740	**0.02259**

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	**0.00002**	0.32940	**-0.00000**	2.50740	**-0.00001**

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	**0.00136**	0.32940	**0.00128**	2.50740	**0.00125**

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	**0.00220**	0.32940	**0.00218**	2.50740	**0.00217**
	(!D * GATE_N * !Q)	0.01860	**0.00002**	0.32940	**-0.00000**	2.50740	**-0.00001**

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	**0.00030**	0.32940	**0.00022**	2.50740	**0.00019**
	(!D * GATE_N * !Q)	0.01860	**0.00136**	0.32940	**0.00128**	2.50740	**0.00125**

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	**0.01059**	0.32940	**0.01020**	2.50740	**0.01284**

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	**0.00681**	0.32940	**0.00654**	2.50740	**0.00925**

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	**0.01059**	0.32940	**0.01020**	2.50740	**0.01284**
	(!D * RESET_B * !Q)	0.01860	**0.00141**	0.32940	**0.01242**	2.50740	**0.01524**
	(!D * !RESET_B * !Q)	0.01860	**0.00252**	0.32940	**0.01353**	2.50740	**0.01634**

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	**0.01033**	0.32940	**0.01003**	2.50740	**0.01269**
	(!D * !RESET_B * !Q)	0.01860	**0.00681**	0.32940	**0.00654**	2.50740	**0.00925**

DLY1

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00139	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	797.60700	914.86300	1032.12000

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	**0.17810**	0.32940	0.06480	**0.58452**	2.50740	0.30000	**1.87921**

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	**0.20967**	0.32940	0.06480	**0.59474**	2.50740	0.30000	**1.85149**

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	**0.01005**	0.32940	0.06480	**0.00996**	2.50740	0.30000	**0.01152**

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	**0.00956**	0.32940	0.06480	**0.00959**	2.50740	0.30000	**0.01053**

DLY2

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00140	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	840.62200	957.87600	1075.13000

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	**0.25531**	0.32940	0.06480	**0.67241**	2.50740	0.30000	**2.01904**

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	**0.29181**	0.32940	0.06480	**0.69670**	2.50740	0.30000	**2.02044**

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	**0.01171**	0.32940	0.06480	**0.01164**	2.50740	0.30000	**0.01261**

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	**0.01130**	0.32940	0.06480	**0.01131**	2.50740	0.30000	**0.01211**

DLY4

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00142	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	1694.07000	1811.33000	1928.58000

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	**0.53595**	0.32940	0.06480	**0.98823**	2.50740	0.30000	**2.46241**

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	**0.56869**	0.32940	0.06480	**1.01156**	2.50740	0.30000	**2.47255**

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	**0.01634**	0.32940	0.06480	**0.01630**	2.50740	0.30000	**0.01708**

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	**0.01613**	0.32940	0.06480	**0.01604**	2.50740	0.30000	**0.01633**

EINVINx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00764	0.00861	1.20000
sg13g2_einvn_2	0.00390	0.00459	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	717.43200	1402.49000	2087.55000
sg13g2_einvn_2	355.00100	697.53100	1040.06000

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	0.00882	**0.03456**	0.32940	0.26702	**0.75697**	2.50740	1.20782	**3.85031**
	TE_B->Z (RR)	0.01860	0.00882	**0.07351**	0.32940	0.26702	**0.18103**	2.50740	1.20782	**0.42047**
	TE_B->Z (FR)	0.01860	0.00882	**0.04452**	0.32940	0.26702	**0.75854**	2.50740	1.20782	**3.73600**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00492	**0.03678**	0.32940	0.13352	**0.75657**	2.50740	0.60392	**3.84360**
	TE_B->Z (RR)	0.01860	0.00492	**0.07260**	0.32940	0.13352	**0.18079**	2.50740	0.60392	**0.42901**
	TE_B->Z (FR)	0.01860	0.00492	**0.04704**	0.32940	0.13352	**0.75905**	2.50740	0.60392	**3.73354**

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	0.01551	**0.03364**	0.32940	0.27371	**0.61878**	2.50740	1.21451	**3.23658**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00843	**0.03572**	0.32940	0.13703	**0.61904**	2.50740	0.60743	**3.23693**

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	0.00882	**0.00754**	0.32940	0.26702	**0.00713**	2.50740	1.20782	**0.00701**
	TE_B	0.01860	0.00882	**0.01828**	0.32940	0.26702	**0.01108**	2.50740	1.20782	**0.00965**
sg13g2_einvn_2	A	0.01860	0.00492	**0.00373**	0.32940	0.13352	**0.00351**	2.50740	0.60392	**0.00304**
	TE_B	0.01860	0.00492	**0.00911**	0.32940	0.13352	**0.00541**	2.50740	0.60392	**0.00477**

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	0.01551	**0.00751**	0.32940	0.27371	**0.00841**	2.50740	1.21451	**0.00589**
sg13g2_einvn_2	A	0.01860	0.00843	**0.00390**	0.32940	0.13703	**0.00426**	2.50740	0.60743	**0.00293**

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	**-0.00484**	0.32940	**-0.00865**	2.50740	**-0.00587**
sg13g2_einvn_2	0.01860	**-0.00243**	0.32940	**-0.00380**	2.50740	**-0.00240**

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	**0.00484**	0.32940	**0.01138**	2.50740	**0.01459**
sg13g2_einvn_2	0.01860	**0.00243**	0.32940	**0.00577**	2.50740	**0.00732**

GCLK

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00223	0.00459	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	1635.28000	1811.98000	1934.02000

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	**0.11149**	0.32940	0.06480	**0.51323**	2.50740	0.30000	**1.86617**

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	**0.08944**	0.32940	0.06480	**0.46681**	2.50740	0.30000	**1.65120**

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	**-0.06063**	1.26300	1.26300	**-0.22666**	2.50740	2.50740	**-0.33863**
	setup	CLK (R)	0.01860	0.01860	**0.09431**	1.26300	1.26300	**0.32110**	2.50740	2.50740	**0.45737**

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	**-0.02906**	1.26300	1.26300	**-0.01619**	2.50740	2.50740	**-0.00623**
	setup	CLK (R)	0.01860	0.01860	**0.07114**	1.26300	1.26300	**0.07825**	2.50740	2.50740	**0.08295**

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	**0.00807**	0.32940	0.06480	**0.00804**	2.50740	0.30000	**0.00995**

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	**0.00637**	0.32940	0.06480	**0.00651**	2.50740	0.30000	**0.00849**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.01459**	0.32940	**0.01560**	2.50740	**0.01742**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00755**	0.32940	**0.02070**	2.50740	**0.02403**

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	**0.01459**	0.32940	**0.01560**	2.50740	**0.01742**

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	**0.00755**	0.32940	**0.02070**	2.50740	**0.02403**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00436**	0.32940	**0.00406**	2.50740	**0.00684**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00511**	0.32940	**0.00480**	2.50740	**0.00748**

INx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.04353	4.80000
sg13g2_inv_8	0.02121	2.40000
sg13g2_inv_4	0.01061	1.20000
sg13g2_inv_2	0.00532	0.60000
sg13g2_inv_1	0.00273	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	2162.56000	4902.83000	7643.11000
sg13g2_inv_8	1081.28000	2451.44000	3821.60000
sg13g2_inv_4	540.64200	1225.71000	1910.78000
sg13g2_inv_2	270.32100	612.84900	955.37800
sg13g2_inv_1	135.29100	306.49700	477.70300

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	**0.02226**	0.32940	1.03680	**0.46698**	2.50740	4.80000	**2.62641**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.02214**	0.32940	0.51840	**0.46505**	2.50740	2.40000	**2.62484**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.02264**	0.32940	0.25920	**0.46478**	2.50740	1.20000	**2.62426**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.02401**	0.32940	0.12960	**0.46425**	2.50740	0.60000	**2.62159**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.02809**	0.32940	0.06480	**0.46630**	2.50740	0.30000	**2.62262**

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	**0.02132**	0.32940	1.03680	**0.42843**	2.50740	4.80000	**2.45666**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.02123**	0.32940	0.51840	**0.42817**	2.50740	2.40000	**2.46064**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.02165**	0.32940	0.25920	**0.42796**	2.50740	1.20000	**2.45711**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.02279**	0.32940	0.12960	**0.42658**	2.50740	0.60000	**2.46193**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.02635**	0.32940	0.06480	**0.42769**	2.50740	0.30000	**2.45186**

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	**0.01796**	0.32940	1.03680	**0.01877**	2.50740	4.80000	**0.01471**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.00858**	0.32940	0.51840	**0.00836**	2.50740	2.40000	**0.00763**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00434**	0.32940	0.25920	**0.00414**	2.50740	1.20000	**0.00398**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00221**	0.32940	0.12960	**0.00206**	2.50740	0.60000	**0.00171**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00132**	0.32940	0.06480	**0.00121**	2.50740	0.30000	**0.00101**

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	**0.01609**	0.32940	1.03680	**0.01743**	2.50740	4.80000	**-0.00312**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.00770**	0.32940	0.51840	**0.00824**	2.50740	2.40000	**-0.00002**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00391**	0.32940	0.25920	**0.00412**	2.50740	1.20000	**-0.00096**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00204**	0.32940	0.12960	**0.00208**	2.50740	0.60000	**0.00117**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00138**	0.32940	0.06480	**0.00131**	2.50740	0.30000	**0.00003**

ITL

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.01500	0.01465	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	1299.58000	2669.69000	4039.80000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (FR)	0.01860	0.01660	**0.03344**	0.32940	0.53400	**0.75775**	2.50740	2.41560	**3.85535**
	TE_B->Z (RR)	0.01860	0.01660	**0.09277**	0.32940	0.53400	**0.22688**	2.50740	2.41560	**0.57351**
	TE_B->Z (FR)	0.01860	0.01660	**0.04504**	0.32940	0.53400	**0.76155**	2.50740	2.41560	**3.74217**

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	0.02979	**0.03500**	0.32940	0.54719	**0.62003**	2.50740	2.42879	**3.24335**

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	0.01660	**0.01511**	0.32940	0.53400	**0.01434**	2.50740	2.41560	**0.01485**
	TE_B	0.01860	0.01660	**0.03649**	0.32940	0.53400	**0.02313**	2.50740	2.41560	**0.02062**

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	0.02979	**0.01453**	0.32940	0.54719	**0.01677**	2.50740	2.42879	**0.01176**

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	**-0.00795**	0.32940	**-0.01999**	2.50740	**-0.01992**

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	**0.00795**	0.32940	**0.01999**	2.50740	**0.02287**

KEEPSTATE

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	140.38400	162.92000	185.45600

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_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00202	0.00211	0.00465	0.60000
sg13g2_mux2_1	0.00199	0.00209	0.00465	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_2	1020.32000	1363.36000	1627.01000
sg13g2_mux2_1	751.57700	1057.00000	1491.98000

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	**0.14048**	0.32940	0.12960	**0.57350**	2.50740	0.60000	**2.00877**
	A1->X (RR)	0.01860	0.00100	**0.07531**	0.32940	0.12960	**0.57301**	2.50740	0.60000	**2.02477**
	S->X (-R)	0.01860	0.00100	**0.14355**	0.32940	0.12960	**0.57600**	2.50740	0.60000	**2.02968**
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.11456**	0.32940	0.06480	**0.52776**	2.50740	0.30000	**1.89594**
	A1->X (RR)	0.01860	0.00100	**0.07726**	0.32940	0.06480	**0.53435**	2.50740	0.30000	**1.92031**
	S->X (-R)	0.01860	0.00100	**0.12493**	0.32940	0.06480	**0.53790**	2.50740	0.30000	**1.92670**

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	**0.08506**	0.32940	0.12960	**0.60041**	2.50740	0.60000	**1.92930**
	A1->X (FF)	0.01860	0.00100	**0.18117**	0.32940	0.12960	**0.61030**	2.50740	0.60000	**1.94534**
	S->X (-F)	0.01860	0.00100	**0.19602**	0.32940	0.12960	**0.60384**	2.50740	0.60000	**1.89946**
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.08518**	0.32940	0.06480	**0.54073**	2.50740	0.30000	**1.79571**
	A1->X (FF)	0.01860	0.00100	**0.15292**	0.32940	0.06480	**0.55063**	2.50740	0.30000	**1.81400**
	S->X (-F)	0.01860	0.00100	**0.16498**	0.32940	0.06480	**0.54633**	2.50740	0.30000	**1.77634**

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	**0.14355**	0.32940	0.12960	**0.57600**	2.50740	0.60000	**2.02968**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.20121**	0.32940	0.12960	**0.62185**	2.50740	0.60000	**1.90115**
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.12493**	0.32940	0.06480	**0.53790**	2.50740	0.30000	**1.92670**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.18228**	0.32940	0.06480	**0.58873**	2.50740	0.30000	**1.86386**

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	**0.19602**	0.32940	0.12960	**0.60384**	2.50740	0.60000	**1.89946**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.24644**	0.32940	0.12960	**0.65345**	2.50740	0.60000	**1.83263**
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.16498**	0.32940	0.06480	**0.54633**	2.50740	0.30000	**1.77634**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.21529**	0.32940	0.06480	**0.59867**	2.50740	0.30000	**1.77602**

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	**0.01002**	0.32940	0.12960	**0.00987**	2.50740	0.60000	**0.01245**
	A1	0.01860	0.00100	**0.00911**	0.32940	0.12960	**0.01402**	2.50740	0.60000	**0.01652**
	S	0.01860	0.00100	**0.01042**	0.32940	0.12960	**0.01082**	2.50740	0.60000	**0.01196**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.00789**	0.32940	0.06480	**0.00778**	2.50740	0.30000	**0.01052**
	A1	0.01860	0.00100	**0.00661**	0.32940	0.06480	**0.00988**	2.50740	0.30000	**0.01233**
	S	0.01860	0.00100	**0.00761**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.00941**

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	**0.00854**	0.32940	0.12960	**0.01425**	2.50740	0.60000	**0.01579**
	A1	0.01860	0.00100	**0.01066**	0.32940	0.12960	**0.01079**	2.50740	0.60000	**0.01255**
	S	0.01860	0.00100	**0.00987**	0.32940	0.12960	**0.01056**	2.50740	0.60000	**0.01125**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.00608**	0.32940	0.06480	**0.00977**	2.50740	0.30000	**0.01248**
	A1	0.01860	0.00100	**0.00779**	0.32940	0.06480	**0.00779**	2.50740	0.30000	**0.01002**
	S	0.01860	0.00100	**0.00712**	0.32940	0.06480	**0.00757**	2.50740	0.30000	**0.00878**

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	**0.01042**	0.32940	0.12960	**0.01085**	2.50740	0.60000	**0.01117**
	S	(!A0 * A1)	0.01860	0.00100	**0.01042**	0.32940	0.12960	**0.01082**	2.50740	0.60000	**0.01196**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.00758**	0.32940	0.06480	**0.00779**	2.50740	0.30000	**0.00792**
	S	(!A0 * A1)	0.01860	0.00100	**0.00761**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.00941**

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	**0.01063**	0.32940	0.12960	**0.01111**	2.50740	0.60000	**0.01048**
	S	(!A0 * A1)	0.01860	0.00100	**0.00987**	0.32940	0.12960	**0.01056**	2.50740	0.60000	**0.01125**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.00784**	0.32940	0.06480	**0.00804**	2.50740	0.30000	**0.00754**
	S	(!A0 * A1)	0.01860	0.00100	**0.00712**	0.32940	0.06480	**0.00757**	2.50740	0.30000	**0.00878**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00309**	0.32940	**0.00293**	2.50740	**0.00512**
sg13g2_mux2_1	0.01860	**0.00309**	0.32940	**0.00293**	2.50740	**0.00512**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00335**	0.32940	**0.00314**	2.50740	**0.00519**
sg13g2_mux2_1	0.01860	**0.00335**	0.32940	**0.00313**	2.50740	**0.00520**

MUX4

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00257	0.00255	0.00256	0.00265	0.00790	0.00475	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	997.59300	2353.50000	3423.64000

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	**0.21726**	0.32940	0.06480	**0.65335**	2.50740	0.30000	**2.18473**
	A1->X (RR)	0.01860	0.00100	**0.21081**	0.32940	0.06480	**0.64989**	2.50740	0.30000	**2.17924**
	A2->X (RR)	0.01860	0.00100	**0.22767**	0.32940	0.06480	**0.66704**	2.50740	0.30000	**2.21829**
	A3->X (RR)	0.01860	0.00100	**0.22174**	0.32940	0.06480	**0.66377**	2.50740	0.30000	**2.21408**
	S0->X (-R)	0.01860	0.00100	**0.19343**	0.32940	0.06480	**0.63859**	2.50740	0.30000	**2.15691**
	S1->X (-R)	0.01860	0.00100	**0.10915**	0.32940	0.06480	**0.53051**	2.50740	0.30000	**1.86854**

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	**0.24802**	0.32940	0.06480	**0.66039**	2.50740	0.30000	**1.96369**
	A1->X (FF)	0.01860	0.00100	**0.24765**	0.32940	0.06480	**0.66026**	2.50740	0.30000	**1.96325**
	A2->X (FF)	0.01860	0.00100	**0.26595**	0.32940	0.06480	**0.68245**	2.50740	0.30000	**2.00864**
	A3->X (FF)	0.01860	0.00100	**0.26478**	0.32940	0.06480	**0.68176**	2.50740	0.30000	**2.00603**
	S0->X (-F)	0.01860	0.00100	**0.23260**	0.32940	0.06480	**0.65427**	2.50740	0.30000	**1.98114**
	S1->X (-F)	0.01860	0.00100	**0.16441**	0.32940	0.06480	**0.56885**	2.50740	0.30000	**1.71954**

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	**0.19343**	0.32940	0.06480	**0.63859**	2.50740	0.30000	**2.15691**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.17945**	0.32940	0.06480	**0.61879**	2.50740	0.30000	**2.10149**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.28114**	0.32940	0.06480	**0.72173**	2.50740	0.30000	**2.07355**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.27075**	0.32940	0.06480	**0.70820**	2.50740	0.30000	**2.05455**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.10944**	0.32940	0.06480	**0.53056**	2.50740	0.30000	**1.86853**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.10915**	0.32940	0.06480	**0.53051**	2.50740	0.30000	**1.86854**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.14909**	0.32940	0.06480	**0.56608**	2.50740	0.30000	**1.81716**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.14856**	0.32940	0.06480	**0.56594**	2.50740	0.30000	**1.81711**

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	**0.23260**	0.32940	0.06480	**0.65427**	2.50740	0.30000	**1.98114**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.21137**	0.32940	0.06480	**0.62674**	2.50740	0.30000	**1.91963**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.29929**	0.32940	0.06480	**0.73385**	2.50740	0.30000	**1.97598**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.28255**	0.32940	0.06480	**0.71044**	2.50740	0.30000	**1.94665**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.13407**	0.32940	0.06480	**0.52928**	2.50740	0.30000	**1.69144**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.13392**	0.32940	0.06480	**0.52925**	2.50740	0.30000	**1.69098**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.16394**	0.32940	0.06480	**0.56853**	2.50740	0.30000	**1.71949**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.16441**	0.32940	0.06480	**0.56885**	2.50740	0.30000	**1.71954**

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	**0.00990**	0.32940	0.06480	**0.00983**	2.50740	0.30000	**0.01094**
	A1	0.01860	0.00100	**0.00949**	0.32940	0.06480	**0.00939**	2.50740	0.30000	**0.01064**
	A2	0.01860	0.00100	**0.01015**	0.32940	0.06480	**0.01007**	2.50740	0.30000	**0.01124**
	A3	0.01860	0.00100	**0.01004**	0.32940	0.06480	**0.00995**	2.50740	0.30000	**0.01084**
	S0	0.01860	0.00100	**0.00925**	0.32940	0.06480	**0.00932**	2.50740	0.30000	**0.00907**
	S1	0.01860	0.00100	**0.00619**	0.32940	0.06480	**0.00678**	2.50740	0.30000	**0.00848**

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	**0.00916**	0.32940	0.06480	**0.00924**	2.50740	0.30000	**0.00987**
	A1	0.01860	0.00100	**0.01422**	0.32940	0.06480	**0.01436**	2.50740	0.30000	**0.01497**
	A2	0.01860	0.00100	**0.01512**	0.32940	0.06480	**0.01528**	2.50740	0.30000	**0.01567**
	A3	0.01860	0.00100	**0.01433**	0.32940	0.06480	**0.01443**	2.50740	0.30000	**0.01491**
	S0	0.01860	0.00100	**0.00701**	0.32940	0.06480	**0.00694**	2.50740	0.30000	**0.00841**
	S1	0.01860	0.00100	**0.00404**	0.32940	0.06480	**0.00417**	2.50740	0.30000	**0.00564**

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	**0.00926**	0.32940	0.06480	**0.00935**	2.50740	0.30000	**0.00915**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.00925**	0.32940	0.06480	**0.00932**	2.50740	0.30000	**0.00907**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00658**	0.32940	0.06480	**0.00658**	2.50740	0.30000	**0.00883**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00697**	0.32940	0.06480	**0.01414**	2.50740	0.30000	**0.01379**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00619**	0.32940	0.06480	**0.00678**	2.50740	0.30000	**0.00848**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00624**	0.32940	0.06480	**0.00685**	2.50740	0.30000	**0.00854**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00346**	0.32940	0.06480	**0.00338**	2.50740	0.30000	**0.00566**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00346**	0.32940	0.06480	**0.00339**	2.50740	0.30000	**0.00566**

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	**0.01022**	0.32940	0.06480	**0.01665**	2.50740	0.30000	**0.01382**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.00964**	0.32940	0.06480	**0.01698**	2.50740	0.30000	**0.01391**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00701**	0.32940	0.06480	**0.00694**	2.50740	0.30000	**0.00841**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00619**	0.32940	0.06480	**0.00626**	2.50740	0.30000	**0.00787**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00629**	0.32940	0.06480	**0.00699**	2.50740	0.30000	**0.00862**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00637**	0.32940	0.06480	**0.00708**	2.50740	0.30000	**0.00868**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00382**	0.32940	0.06480	**0.00392**	2.50740	0.30000	**0.00557**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00404**	0.32940	0.06480	**0.00417**	2.50740	0.30000	**0.00564**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00726**	0.32940	**0.00683**	2.50740	**0.01201**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01036**	0.32940	**0.00995**	2.50740	**0.01223**

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	**0.00636**	0.32940	**0.00604**	2.50740	**0.01137**
	(A0 * A1 * !S1)	0.01860	**0.00707**	0.32940	**0.01405**	2.50740	**0.01667**
	(!A2 * !A3 * S1)	0.01860	**0.00646**	0.32940	**0.00614**	2.50740	**0.01144**
	(!A0 * !A1 * !S1)	0.01860	**0.00726**	0.32940	**0.00683**	2.50740	**0.01201**

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	**0.00993**	0.32940	**0.00942**	2.50740	**0.01173**
	(A0 * A1 * !S1)	0.01860	**0.01036**	0.32940	**0.00995**	2.50740	**0.01223**
	(!A2 * !A3 * S1)	0.01860	**0.00983**	0.32940	**0.00934**	2.50740	**0.01159**
	(!A0 * !A1 * !S1)	0.01860	**0.00769**	0.32940	**0.01459**	2.50740	**0.01708**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00327**	0.32940	**0.00322**	2.50740	**0.00609**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00321**	0.32940	**0.00313**	2.50740	**0.00586**

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	**0.00258**	0.32940	**0.00247**	2.50740	**0.00533**
	(A0 * A2 * !S0)	0.01860	**0.00258**	0.32940	**0.00247**	2.50740	**0.00533**
	(!A1 * !A3 * S0)	0.01860	**0.00327**	0.32940	**0.00322**	2.50740	**0.00609**
	(!A0 * !A2 * !S0)	0.01860	**0.00331**	0.32940	**0.00327**	2.50740	**0.00612**

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	**0.00246**	0.32940	**0.00249**	2.50740	**0.00519**
	(A0 * A2 * !S0)	0.01860	**0.00245**	0.32940	**0.00249**	2.50740	**0.00519**
	(!A1 * !A3 * S0)	0.01860	**0.00321**	0.32940	**0.00313**	2.50740	**0.00586**
	(!A0 * !A2 * !S0)	0.01860	**0.00324**	0.32940	**0.00317**	2.50740	**0.00589**

NAND2B1

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00216	0.00292	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	215.66100	541.41100	1046.65000

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	**0.07590**	0.32940	0.06480	**0.48074**	2.50740	0.30000	**1.81439**
	B->Y (FR)	0.01860	0.00100	**0.03477**	0.32940	0.06480	**0.47387**	2.50740	0.30000	**2.63393**

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	**0.09335**	0.32940	0.06480	**0.64701**	2.50740	0.30000	**2.47508**
	B->Y (RF)	0.01860	0.00100	**0.05545**	0.32940	0.06480	**0.62638**	2.50740	0.30000	**3.16889**

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	**0.00164**	0.32940	0.06480	**0.00170**	2.50740	0.30000	**0.00130**
	B	0.01860	0.00100	**0.00149**	0.32940	0.06480	**0.00119**	2.50740	0.30000	**0.00101**

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	**0.00334**	0.32940	0.06480	**0.00343**	2.50740	0.30000	**0.00258**
	B	0.01860	0.00100	**0.00346**	0.32940	0.06480	**0.00338**	2.50740	0.30000	**0.00247**

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	**0.00314**	0.32940	**0.00303**	2.50740	**0.00529**

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	**0.00187**	0.32940	**0.00177**	2.50740	**0.00389**

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	**0.00314**	0.32940	**0.00303**	2.50740	**0.00529**

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	**0.00187**	0.32940	**0.00177**	2.50740	**0.00389**

NAND2B2

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00206	0.00512	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_2	360.32600	852.38000	2001.47000

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_nand2b_2	A_N->Y (RR)	0.01860	0.00100	**0.10049**	0.32940	0.12960	**0.52866**	2.50740	0.60000	**1.95211**
	B->Y (FR)	0.01860	0.00100	**0.02568**	0.32940	0.12960	**0.46655**	2.50740	0.60000	**2.62587**

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	**0.12947**	0.32940	0.12960	**0.73120**	2.50740	0.60000	**2.75362**
	B->Y (RF)	0.01860	0.00100	**0.04125**	0.32940	0.12960	**0.63756**	2.50740	0.60000	**3.30265**

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	**0.00308**	0.32940	0.12960	**0.00295**	2.50740	0.60000	**0.00275**
	B	0.01860	0.00100	**0.00368**	0.32940	0.12960	**0.00336**	2.50740	0.60000	**0.00301**

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	**0.00705**	0.32940	0.12960	**0.00729**	2.50740	0.60000	**0.00674**
	B	0.01860	0.00100	**0.00552**	0.32940	0.12960	**0.00541**	2.50740	0.60000	**0.00403**

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	**0.00524**	0.32940	**0.00502**	2.50740	**0.00687**

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	**0.00459**	0.32940	**0.00444**	2.50740	**0.00627**

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	**0.00524**	0.32940	**0.00502**	2.50740	**0.00687**

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	**0.00459**	0.32940	**0.00444**	2.50740	**0.00627**

NAND2x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00527	0.00535	0.60000
sg13g2_nand2_1	0.00279	0.00283	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_2	88.78190	627.16000	1910.21000
sg13g2_nand2_1	45.52210	316.16000	955.34400

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	**0.02760**	0.32940	0.12960	**0.46831**	2.50740	0.60000	**2.62755**
	B->Y (FR)	0.01860	0.00100	**0.03316**	0.32940	0.12960	**0.47442**	2.50740	0.60000	**2.63632**
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.03092**	0.32940	0.06480	**0.46847**	2.50740	0.30000	**2.62659**
	B->Y (FR)	0.01860	0.00100	**0.03564**	0.32940	0.06480	**0.47350**	2.50740	0.30000	**2.63081**

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	**0.03905**	0.32940	0.12960	**0.63686**	2.50740	0.60000	**3.30032**
	B->Y (RF)	0.01860	0.00100	**0.04800**	0.32940	0.12960	**0.64118**	2.50740	0.60000	**3.25092**
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.04314**	0.32940	0.06480	**0.61930**	2.50740	0.30000	**3.23128**
	B->Y (RF)	0.01860	0.00100	**0.04991**	0.32940	0.06480	**0.62088**	2.50740	0.30000	**3.16941**

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	**0.00249**	0.32940	0.12960	**0.00229**	2.50740	0.60000	**0.00175**
	B	0.01860	0.00100	**0.00334**	0.32940	0.12960	**0.00272**	2.50740	0.60000	**0.00248**
sg13g2_nand2_1	**A**	0.01860	0.00100	**0.00141**	0.32940	0.06480	**0.00124**	2.50740	0.30000	**0.00100**
	B	0.01860	0.00100	**0.00151**	0.32940	0.06480	**0.00120**	2.50740	0.30000	**0.00086**

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	**0.00378**	0.32940	0.12960	**0.00375**	2.50740	0.60000	**0.00226**
	B	0.01860	0.00100	**0.00631**	0.32940	0.12960	**0.00618**	2.50740	0.60000	**0.00480**
sg13g2_nand2_1	**A**	0.01860	0.00100	**0.00204**	0.32940	0.06480	**0.00194**	2.50740	0.30000	**0.00161**
	B	0.01860	0.00100	**0.00332**	0.32940	0.06480	**0.00319**	2.50740	0.30000	**0.00255**

NAND3B1

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00209	0.00282	0.00282	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	138.71800	476.70200	1524.31000

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_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.08077**	0.32940	0.06480	**0.48329**	2.50740	0.30000	**1.81024**
	B->Y (FR)	0.01860	0.00100	**0.04016**	0.32940	0.06480	**0.47903**	2.50740	0.30000	**2.64027**
	C->Y (FR)	0.01860	0.00100	**0.04372**	0.32940	0.06480	**0.48399**	2.50740	0.30000	**2.64346**

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	**0.11668**	0.32940	0.06480	**0.86477**	2.50740	0.30000	**3.41677**
	B->Y (RF)	0.01860	0.00100	**0.08773**	0.32940	0.06480	**0.84830**	2.50740	0.30000	**4.06286**
	C->Y (RF)	0.01860	0.00100	**0.09594**	0.32940	0.06480	**0.84965**	2.50740	0.30000	**3.95862**

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	**0.00178**	0.32940	0.06480	**0.00179**	2.50740	0.30000	**0.00127**
	B	0.01860	0.00100	**0.00184**	0.32940	0.06480	**0.00153**	2.50740	0.30000	**0.00141**
	C	0.01860	0.00100	**0.00213**	0.32940	0.06480	**0.00173**	2.50740	0.30000	**0.00149**

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	**0.00455**	0.32940	0.06480	**0.00457**	2.50740	0.30000	**0.00403**
	B	0.01860	0.00100	**0.00449**	0.32940	0.06480	**0.00437**	2.50740	0.30000	**0.00367**
	C	0.01860	0.00100	**0.00576**	0.32940	0.06480	**0.00565**	2.50740	0.30000	**0.00511**

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	**0.00318**	0.32940	**0.00305**	2.50740	**0.00532**

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	**0.00175**	0.32940	**0.00165**	2.50740	**0.00377**

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	**0.00318**	0.32940	**0.00305**	2.50740	**0.00532**

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	**0.00175**	0.32940	**0.00165**	2.50740	**0.00377**

NAND3

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00265	0.00275	0.00271	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	38.61280	251.52000	1433.09000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3_1	A->Y (FR)	0.01860	0.00100	**0.03564**	0.32940	0.06480	**0.47317**	2.50740	0.30000	**2.63428**
	B->Y (FR)	0.01860	0.00100	**0.04097**	0.32940	0.06480	**0.47904**	2.50740	0.30000	**2.63812**
	C->Y (FR)	0.01860	0.00100	**0.04379**	0.32940	0.06480	**0.48394**	2.50740	0.30000	**2.64338**

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	**0.06811**	0.32940	0.06480	**0.82913**	2.50740	0.30000	**4.07175**
	B->Y (RF)	0.01860	0.00100	**0.08175**	0.32940	0.06480	**0.84131**	2.50740	0.30000	**4.06450**
	C->Y (RF)	0.01860	0.00100	**0.08829**	0.32940	0.06480	**0.84037**	2.50740	0.30000	**3.95455**

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	**0.00168**	0.32940	0.06480	**0.00150**	2.50740	0.30000	**0.00141**
	B	0.01860	0.00100	**0.00185**	0.32940	0.06480	**0.00153**	2.50740	0.30000	**0.00128**
	C	0.01860	0.00100	**0.00214**	0.32940	0.06480	**0.00175**	2.50740	0.30000	**0.00146**

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	**0.00305**	0.32940	0.06480	**0.00293**	2.50740	0.30000	**0.00244**
	B	0.01860	0.00100	**0.00435**	0.32940	0.06480	**0.00417**	2.50740	0.30000	**0.00371**
	C	0.01860	0.00100	**0.00543**	0.32940	0.06480	**0.00529**	2.50740	0.30000	**0.00495**

NAND4

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00263	0.00272	0.00272	0.00271	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	39.16620	184.39200	1910.73000

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	**0.03739**	0.32940	0.06480	**0.47511**	2.50740	0.30000	**2.63191**
	B->Y (FR)	0.01860	0.00100	**0.04310**	0.32940	0.06480	**0.48153**	2.50740	0.30000	**2.63854**
	C->Y (FR)	0.01860	0.00100	**0.04630**	0.32940	0.06480	**0.48666**	2.50740	0.30000	**2.64492**
	D->Y (FR)	0.01860	0.00100	**0.04733**	0.32940	0.06480	**0.49140**	2.50740	0.30000	**2.65028**

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	**0.08968**	0.32940	0.06480	**1.04053**	2.50740	0.30000	**4.94861**
	B->Y (RF)	0.01860	0.00100	**0.11134**	0.32940	0.06480	**1.06239**	2.50740	0.30000	**4.96845**
	C->Y (RF)	0.01860	0.00100	**0.12371**	0.32940	0.06480	**1.06968**	2.50740	0.30000	**4.88012**
	D->Y (RF)	0.01860	0.00100	**0.12963**	0.32940	0.06480	**1.07322**	2.50740	0.30000	**4.79624**

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	**0.00159**	0.32940	0.06480	**0.00143**	2.50740	0.30000	**0.00101**
	B	0.01860	0.00100	**0.00183**	0.32940	0.06480	**0.00155**	2.50740	0.30000	**0.00114**
	C	0.01860	0.00100	**0.00210**	0.32940	0.06480	**0.00171**	2.50740	0.30000	**0.00132**
	D	0.01860	0.00100	**0.00229**	0.32940	0.06480	**0.00191**	2.50740	0.30000	**0.00150**

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	**0.00365**	0.32940	0.06480	**0.00354**	2.50740	0.30000	**0.00314**
	B	0.01860	0.00100	**0.00495**	0.32940	0.06480	**0.00477**	2.50740	0.30000	**0.00432**
	C	0.01860	0.00100	**0.00605**	0.32940	0.06480	**0.00590**	2.50740	0.30000	**0.00537**
	D	0.01860	0.00100	**0.00713**	0.32940	0.06480	**0.00698**	2.50740	0.30000	**0.00657**

NOR2Bx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00538	0.00253	0.60000
sg13g2_nor2b_1	0.00278	0.00213	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_2	612.97100	1082.41000	1394.70000
sg13g2_nor2b_1	342.15600	634.14800	843.07100

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	**0.04442**	0.32940	0.12960	**0.76546**	2.50740	0.60000	**3.84763**
	B_N->Y (RR)	0.01860	0.00100	**0.11667**	0.32940	0.12960	**0.83991**	2.50740	0.60000	**3.33892**
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.05205**	0.32940	0.06480	**0.76774**	2.50740	0.30000	**3.85559**
	B_N->Y (RR)	0.01860	0.00100	**0.10633**	0.32940	0.06480	**0.80939**	2.50740	0.30000	**3.24941**

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	**0.02611**	0.32940	0.12960	**0.43930**	2.50740	0.60000	**2.49891**
	B_N->Y (FF)	0.01860	0.00100	**0.10333**	0.32940	0.12960	**0.49352**	2.50740	0.60000	**1.71480**
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.02868**	0.32940	0.06480	**0.43012**	2.50740	0.30000	**2.45468**
	B_N->Y (FF)	0.01860	0.00100	**0.08690**	0.32940	0.06480	**0.45073**	2.50740	0.30000	**1.58057**

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	**0.00356**	0.32940	0.12960	**0.00358**	2.50740	0.60000	**0.00260**
	B_N	0.01860	0.00100	**0.00735**	0.32940	0.12960	**0.00736**	2.50740	0.60000	**0.00678**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00181**	0.32940	0.06480	**0.00177**	2.50740	0.30000	**0.00151**
	B_N	0.01860	0.00100	**0.00379**	0.32940	0.06480	**0.00372**	2.50740	0.30000	**0.00354**

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	**0.00246**	0.32940	0.12960	**0.00243**	2.50740	0.60000	**-0.00011**
	B_N	0.01860	0.00100	**0.00352**	0.32940	0.12960	**0.00327**	2.50740	0.60000	**0.00224**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00158**	0.32940	0.06480	**0.00151**	2.50740	0.30000	**0.00019**
	B_N	0.01860	0.00100	**0.00193**	0.32940	0.06480	**0.00181**	2.50740	0.30000	**0.00143**

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	**0.00495**	0.32940	**0.00478**	2.50740	**0.00727**
sg13g2_nor2b_1	0.01860	**0.00292**	0.32940	**0.00281**	2.50740	**0.00503**

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	**0.00497**	0.32940	**0.00478**	2.50740	**0.00695**
sg13g2_nor2b_1	0.01860	**0.00298**	0.32940	**0.00286**	2.50740	**0.00487**

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	**0.00495**	0.32940	**0.00478**	2.50740	**0.00727**
sg13g2_nor2b_1	**A**	0.01860	**0.00292**	0.32940	**0.00281**	2.50740	**0.00503**

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	**0.00497**	0.32940	**0.00478**	2.50740	**0.00695**
sg13g2_nor2b_1	**A**	0.01860	**0.00298**	0.32940	**0.00286**	2.50740	**0.00487**

NOR2x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00543	0.00531	0.30000
sg13g2_nor2_1	0.00284	0.00277	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_2	501.85600	817.90500	1261.26000
sg13g2_nor2_1	250.91600	408.95500	630.64100

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	**0.05700**	0.32940	0.06480	**0.47308**	2.50740	0.30000	**2.37925**
	B->Y (FR)	0.01860	0.00100	**0.04504**	0.32940	0.06480	**0.47163**	2.50740	0.30000	**2.50133**
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.06106**	0.32940	0.06480	**0.76438**	2.50740	0.30000	**3.73183**
	B->Y (FR)	0.01860	0.00100	**0.05223**	0.32940	0.06480	**0.76718**	2.50740	0.30000	**3.84549**

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	**0.03085**	0.32940	0.06480	**0.31590**	2.50740	0.30000	**1.81069**
	B->Y (RF)	0.01860	0.00100	**0.02578**	0.32940	0.06480	**0.31005**	2.50740	0.30000	**1.80567**
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.03320**	0.32940	0.06480	**0.43618**	2.50740	0.30000	**2.46354**
	B->Y (RF)	0.01860	0.00100	**0.02877**	0.32940	0.06480	**0.43011**	2.50740	0.30000	**2.45461**

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	**0.00691**	0.32940	0.06480	**0.00669**	2.50740	0.30000	**0.00658**
	B	0.01860	0.00100	**0.00364**	0.32940	0.06480	**0.00360**	2.50740	0.30000	**0.00353**
sg13g2_nor2_1	A	0.01860	0.00100	**0.00341**	0.32940	0.06480	**0.00329**	2.50740	0.30000	**0.00303**
	B	0.01860	0.00100	**0.00181**	0.32940	0.06480	**0.00177**	2.50740	0.30000	**0.00132**

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	**0.00355**	0.32940	0.06480	**0.00295**	2.50740	0.30000	**0.00334**
	B	0.01860	0.00100	**0.00241**	0.32940	0.06480	**0.00244**	2.50740	0.30000	**0.00305**
sg13g2_nor2_1	A	0.01860	0.00100	**0.00175**	0.32940	0.06480	**0.00151**	2.50740	0.30000	**0.00035**
	B	0.01860	0.00100	**0.00158**	0.32940	0.06480	**0.00151**	2.50740	0.30000	**0.00017**

NOR3x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00539	0.00538	0.00529	0.60000
sg13g2_nor3_1	0.00285	0.00286	0.00277	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_2	435.73000	936.24600	1629.82000
sg13g2_nor3_1	218.59400	471.51100	815.15300

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	**0.10448**	0.32940	0.12960	**1.10441**	2.50740	0.60000	**4.99275**
	B->Y (FR)	0.01860	0.00100	**0.09748**	0.32940	0.12960	**1.10501**	2.50740	0.60000	**5.13924**
	C->Y (FR)	0.01860	0.00100	**0.07068**	0.32940	0.12960	**1.08167**	2.50740	0.60000	**5.18159**
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.11472**	0.32940	0.06480	**1.10280**	2.50740	0.30000	**4.98296**
	B->Y (FR)	0.01860	0.00100	**0.10811**	0.32940	0.06480	**1.10359**	2.50740	0.30000	**5.12639**
	C->Y (FR)	0.01860	0.00100	**0.08569**	0.32940	0.06480	**1.08559**	2.50740	0.30000	**5.17361**

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	**0.03456**	0.32940	0.12960	**0.44516**	2.50740	0.60000	**2.47455**
	B->Y (RF)	0.01860	0.00100	**0.03418**	0.32940	0.12960	**0.44005**	2.50740	0.60000	**2.46816**
	C->Y (RF)	0.01860	0.00100	**0.02852**	0.32940	0.12960	**0.43275**	2.50740	0.60000	**2.46143**
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.03706**	0.32940	0.06480	**0.43330**	2.50740	0.30000	**2.42626**
	B->Y (RF)	0.01860	0.00100	**0.03639**	0.32940	0.06480	**0.42936**	2.50740	0.30000	**2.42102**
	C->Y (RF)	0.01860	0.00100	**0.03149**	0.32940	0.06480	**0.42392**	2.50740	0.30000	**2.41477**

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	**0.01116**	0.32940	0.12960	**0.01097**	2.50740	0.60000	**0.01051**
	B	0.01860	0.00100	**0.00840**	0.32940	0.12960	**0.00818**	2.50740	0.60000	**0.00775**
	C	0.01860	0.00100	**0.00519**	0.32940	0.12960	**0.00510**	2.50740	0.60000	**0.00462**
sg13g2_nor3_1	A	0.01860	0.00100	**0.00577**	0.32940	0.06480	**0.00564**	2.50740	0.30000	**0.00530**
	B	0.01860	0.00100	**0.00439**	0.32940	0.06480	**0.00424**	2.50740	0.30000	**0.00388**
	C	0.01860	0.00100	**0.00285**	0.32940	0.06480	**0.00276**	2.50740	0.30000	**0.00242**

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	**0.00437**	0.32940	0.12960	**0.00379**	2.50740	0.60000	**0.00149**
	B	0.01860	0.00100	**0.00386**	0.32940	0.12960	**0.00344**	2.50740	0.60000	**0.00116**
	C	0.01860	0.00100	**0.00263**	0.32940	0.12960	**0.00272**	2.50740	0.60000	**0.00067**
sg13g2_nor3_1	A	0.01860	0.00100	**0.00224**	0.32940	0.06480	**0.00189**	2.50740	0.30000	**0.00101**
	B	0.01860	0.00100	**0.00205**	0.32940	0.06480	**0.00177**	2.50740	0.30000	**0.00069**
	C	0.01860	0.00100	**0.00169**	0.32940	0.06480	**0.00167**	2.50740	0.30000	**0.00052**

NOR4x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00538	0.00531	0.00472	0.00485	0.60000
sg13g2_nor4_1	0.00281	0.00281	0.00249	0.00253	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_2	418.34100	895.98000	1991.79000
sg13g2_nor4_1	209.18900	447.99800	995.89200

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	**0.16838**	0.32940	0.12960	**1.46878**	2.50740	0.60000	**6.35218**
	B->Y (FR)	0.01860	0.00100	**0.16208**	0.32940	0.12960	**1.46504**	2.50740	0.60000	**6.45312**
	C->Y (FR)	0.01860	0.00100	**0.14032**	0.32940	0.12960	**1.44392**	2.50740	0.60000	**6.54844**
	D->Y (FR)	0.01860	0.00100	**0.09685**	0.32940	0.12960	**1.40361**	2.50740	0.60000	**6.55354**
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.17662**	0.32940	0.06480	**1.46118**	2.50740	0.30000	**6.32517**
	B->Y (FR)	0.01860	0.00100	**0.17082**	0.32940	0.06480	**1.45798**	2.50740	0.30000	**6.42938**
	C->Y (FR)	0.01860	0.00100	**0.15099**	0.32940	0.06480	**1.43949**	2.50740	0.30000	**6.52805**
	D->Y (FR)	0.01860	0.00100	**0.11121**	0.32940	0.06480	**1.40191**	2.50740	0.30000	**6.53198**

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	**0.03646**	0.32940	0.12960	**0.45034**	2.50740	0.60000	**2.48424**
	B->Y (RF)	0.01860	0.00100	**0.03787**	0.32940	0.12960	**0.44751**	2.50740	0.60000	**2.47911**
	C->Y (RF)	0.01860	0.00100	**0.03657**	0.32940	0.12960	**0.44166**	2.50740	0.60000	**2.47416**
	D->Y (RF)	0.01860	0.00100	**0.03083**	0.32940	0.12960	**0.43464**	2.50740	0.60000	**2.46418**
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.03971**	0.32940	0.06480	**0.45003**	2.50740	0.30000	**2.48192**
	B->Y (RF)	0.01860	0.00100	**0.04095**	0.32940	0.06480	**0.44792**	2.50740	0.30000	**2.48034**
	C->Y (RF)	0.01860	0.00100	**0.03932**	0.32940	0.06480	**0.44218**	2.50740	0.30000	**2.47950**
	D->Y (RF)	0.01860	0.00100	**0.03366**	0.32940	0.06480	**0.43568**	2.50740	0.30000	**2.46764**

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	**0.01491**	0.32940	0.12960	**0.01462**	2.50740	0.60000	**0.01451**
	B	0.01860	0.00100	**0.01235**	0.32940	0.12960	**0.01209**	2.50740	0.60000	**0.01157**
	C	0.01860	0.00100	**0.00995**	0.32940	0.12960	**0.00962**	2.50740	0.60000	**0.00908**
	D	0.01860	0.00100	**0.00555**	0.32940	0.12960	**0.00536**	2.50740	0.60000	**0.00522**
sg13g2_nor4_1	A	0.01860	0.00100	**0.00742**	0.32940	0.06480	**0.00726**	2.50740	0.30000	**0.00710**
	B	0.01860	0.00100	**0.00614**	0.32940	0.06480	**0.00599**	2.50740	0.30000	**0.00584**
	C	0.01860	0.00100	**0.00506**	0.32940	0.06480	**0.00490**	2.50740	0.30000	**0.00462**
	D	0.01860	0.00100	**0.00300**	0.32940	0.06480	**0.00286**	2.50740	0.30000	**0.00268**

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	**0.00529**	0.32940	0.12960	**0.00456**	2.50740	0.60000	**0.00270**
	B	0.01860	0.00100	**0.00476**	0.32940	0.12960	**0.00426**	2.50740	0.60000	**0.00216**
	C	0.01860	0.00100	**0.00302**	0.32940	0.12960	**0.00252**	2.50740	0.60000	**0.00061**
	D	0.01860	0.00100	**0.00046**	0.32940	0.12960	**0.00047**	2.50740	0.60000	**-0.00149**
sg13g2_nor4_1	A	0.01860	0.00100	**0.00261**	0.32940	0.06480	**0.00225**	2.50740	0.30000	**0.00119**
	B	0.01860	0.00100	**0.00243**	0.32940	0.06480	**0.00217**	2.50740	0.30000	**0.00114**
	C	0.01860	0.00100	**0.00161**	0.32940	0.06480	**0.00133**	2.50740	0.30000	**0.00075**
	D	0.01860	0.00100	**0.00046**	0.32940	0.06480	**0.00040**	2.50740	0.30000	**-0.00058**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00014**	0.32940	**-0.00009**	2.50740	**-0.00017**
sg13g2_nor4_1	0.01860	**0.00014**	0.32940	**0.00002**	2.50740	**-0.00002**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00026**	0.32940	**0.00028**	2.50740	**0.00028**
sg13g2_nor4_1	0.01860	**0.00006**	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	**0.00014**	0.32940	**-0.00009**	2.50740	**-0.00017**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00014**	0.32940	**0.00002**	2.50740	**-0.00002**

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	**0.00026**	0.32940	**0.00028**	2.50740	**0.00028**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00006**	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	**0.00022**	0.32940	**-0.00006**	2.50740	**-0.00013**
sg13g2_nor4_1	0.01860	**0.00019**	0.32940	**0.00006**	2.50740	**0.00002**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00017**	0.32940	**0.00019**	2.50740	**0.00020**
sg13g2_nor4_1	0.01860	**-0.00000**	0.32940	**0.00001**	2.50740	**0.00001**

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	**0.00022**	0.32940	**-0.00006**	2.50740	**-0.00013**
sg13g2_nor4_1	**(!A * C) + (!A * !C * D)**	0.01860	**0.00019**	0.32940	**0.00006**	2.50740	**0.00002**

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	**0.00017**	0.32940	**0.00019**	2.50740	**0.00020**
sg13g2_nor4_1	**(!A * C) + (!A * !C * D)**	0.01860	**-0.00000**	0.32940	**0.00001**	2.50740	**0.00001**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00089**	0.32940	**0.00090**	2.50740	**0.00091**
sg13g2_nor4_1	0.01860	**0.00057**	0.32940	**0.00058**	2.50740	**0.00059**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**-0.00014**	0.32940	**-0.00014**	2.50740	**-0.00014**
sg13g2_nor4_1	0.01860	**-0.00026**	0.32940	**-0.00026**	2.50740	**-0.00026**

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	**0.00089**	0.32940	**0.00090**	2.50740	**0.00091**
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**0.00057**	0.32940	**0.00058**	2.50740	**0.00059**

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	**-0.00014**	0.32940	**-0.00014**	2.50740	**-0.00014**
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00026**	0.32940	**-0.00026**	2.50740	**-0.00026**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00226**	0.32940	**0.00228**	2.50740	**0.00228**
sg13g2_nor4_1	0.01860	**0.00124**	0.32940	**0.00125**	2.50740	**0.00125**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00108**	0.32940	**0.00110**	2.50740	**0.00113**
sg13g2_nor4_1	0.01860	**0.00026**	0.32940	**0.00026**	2.50740	**0.00028**

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	**0.00226**	0.32940	**0.00228**	2.50740	**0.00228**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00124**	0.32940	**0.00125**	2.50740	**0.00125**

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	**0.00108**	0.32940	**0.00110**	2.50740	**0.00113**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00026**	0.32940	**0.00026**	2.50740	**0.00028**

NP_ANT

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00121

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	3.56276	3.56276	3.56276

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	**-0.00020**	0.32940	**-0.00020**	2.50740	**-0.00020**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00020**	0.32940	**0.00020**	2.50740	**0.00020**

O21AI

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00311	0.00315	0.00291	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	110.31800	493.36000	1064.96000

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	**0.09665**	0.32940	0.06480	**0.90039**	2.50740	0.30000	**4.19923**
	A2->Y (FR)	0.01860	0.00100	**0.08568**	0.32940	0.06480	**0.89992**	2.50740	0.30000	**4.33980**
	B1->Y (FR)	0.01860	0.00100	**0.03627**	0.32940	0.06480	**0.52714**	2.50740	0.30000	**2.86858**

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	**0.06881**	0.32940	0.06480	**0.64438**	2.50740	0.30000	**3.15651**
	A2->Y (RF)	0.01860	0.00100	**0.05758**	0.32940	0.06480	**0.63110**	2.50740	0.30000	**3.13963**
	B1->Y (RF)	0.01860	0.00100	**0.05765**	0.32940	0.06480	**0.64015**	2.50740	0.30000	**3.23243**

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	**0.03627**	0.32940	0.06480	**0.52714**	2.50740	0.30000	**2.86858**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03554**	0.32940	0.06480	**0.52574**	2.50740	0.30000	**2.86070**

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	**0.05765**	0.32940	0.06480	**0.64015**	2.50740	0.30000	**3.23243**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.04407**	0.32940	0.06480	**0.62211**	2.50740	0.30000	**3.20915**

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	**0.00372**	0.32940	0.06480	**0.00361**	2.50740	0.30000	**0.00335**
	A2	0.01860	0.00100	**0.00204**	0.32940	0.06480	**0.00193**	2.50740	0.30000	**0.00177**
	B1	0.01860	0.00100	**0.00102**	0.32940	0.06480	**0.00095**	2.50740	0.30000	**0.00026**

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	**0.00402**	0.32940	0.06480	**0.00376**	2.50740	0.30000	**0.00312**
	A2	0.01860	0.00100	**0.00372**	0.32940	0.06480	**0.00373**	2.50740	0.30000	**0.00309**
	B1	0.01860	0.00100	**0.00187**	0.32940	0.06480	**0.00182**	2.50740	0.30000	**0.00134**

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	**0.00270**	0.32940	0.06480	**0.00263**	2.50740	0.30000	**0.00220**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00102**	0.32940	0.06480	**0.00095**	2.50740	0.30000	**0.00026**

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	**0.00231**	0.32940	0.06480	**0.00216**	2.50740	0.30000	**0.00167**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00187**	0.32940	0.06480	**0.00182**	2.50740	0.30000	**0.00134**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**-0.00016**	0.32940	**-0.00017**	2.50740	**-0.00017**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00040**	0.32940	**0.00030**	2.50740	**0.00026**

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	**-0.00016**	0.32940	**-0.00017**	2.50740	**-0.00017**

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	**0.00040**	0.32940	**0.00030**	2.50740	**0.00026**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**-0.00011**	0.32940	**-0.00013**	2.50740	**-0.00013**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00034**	0.32940	**0.00025**	2.50740	**0.00021**

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	**-0.00011**	0.32940	**-0.00013**	2.50740	**-0.00013**

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	**0.00034**	0.32940	**0.00025**	2.50740	**0.00021**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00019**	0.32940	**0.00018**	2.50740	**0.00019**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00047**	0.32940	**0.00049**	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_o21ai_1	**(!A1 * !A2)**	0.01860	**0.00019**	0.32940	**0.00018**	2.50740	**0.00019**

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	**0.00047**	0.32940	**0.00049**	2.50740	**0.00050**

OR2x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00231	0.00215	0.60000
sg13g2_or2_1	0.00231	0.00216	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_2	458.43200	743.36100	1137.65000
sg13g2_or2_1	323.46000	522.72600	660.02700

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	**0.09930**	0.32940	0.12960	**0.53842**	2.50740	0.60000	**1.99874**
	B->X (RR)	0.01860	0.00100	**0.09281**	0.32940	0.12960	**0.52616**	2.50740	0.60000	**1.95289**
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.08266**	0.32940	0.06480	**0.49839**	2.50740	0.30000	**1.87497**
	B->X (RR)	0.01860	0.00100	**0.07598**	0.32940	0.06480	**0.48286**	2.50740	0.30000	**1.81614**

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	**0.18247**	0.32940	0.12960	**0.58579**	2.50740	0.60000	**1.85785**
	B->X (FF)	0.01860	0.00100	**0.17371**	0.32940	0.12960	**0.58571**	2.50740	0.60000	**1.87750**
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.14086**	0.32940	0.06480	**0.51426**	2.50740	0.30000	**1.69638**
	B->X (FF)	0.01860	0.00100	**0.13164**	0.32940	0.06480	**0.50956**	2.50740	0.30000	**1.69359**

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	**0.00789**	0.32940	0.12960	**0.00787**	2.50740	0.60000	**0.00920**
	B	0.01860	0.00100	**0.00772**	0.32940	0.12960	**0.00772**	2.50740	0.60000	**0.00933**
sg13g2_or2_1	A	0.01860	0.00100	**0.00493**	0.32940	0.06480	**0.00476**	2.50740	0.30000	**0.00682**
	B	0.01860	0.00100	**0.00472**	0.32940	0.06480	**0.00457**	2.50740	0.30000	**0.00641**

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	**0.00887**	0.32940	0.12960	**0.00880**	2.50740	0.60000	**0.00962**
	B	0.01860	0.00100	**0.00777**	0.32940	0.12960	**0.00776**	2.50740	0.60000	**0.00897**
sg13g2_or2_1	A	0.01860	0.00100	**0.00591**	0.32940	0.06480	**0.00592**	2.50740	0.30000	**0.00675**
	B	0.01860	0.00100	**0.00483**	0.32940	0.06480	**0.00481**	2.50740	0.30000	**0.00630**

OR3x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00241	0.00236	0.00226	0.60000
sg13g2_or3_1	0.00241	0.00236	0.00226	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_2	462.38000	738.67800	1231.98000
sg13g2_or3_1	327.31600	560.77900	862.21900

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	**0.11316**	0.32940	0.12960	**0.56338**	2.50740	0.60000	**2.08539**
	B->X (RR)	0.01860	0.00100	**0.10759**	0.32940	0.12960	**0.55226**	2.50740	0.60000	**2.04300**
	C->X (RR)	0.01860	0.00100	**0.09935**	0.32940	0.12960	**0.53916**	2.50740	0.60000	**1.99524**
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.09685**	0.32940	0.06480	**0.52775**	2.50740	0.30000	**1.97453**
	B->X (RR)	0.01860	0.00100	**0.09181**	0.32940	0.06480	**0.51481**	2.50740	0.30000	**1.92400**
	C->X (RR)	0.01860	0.00100	**0.08342**	0.32940	0.06480	**0.49743**	2.50740	0.30000	**1.86692**

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	**0.25496**	0.32940	0.12960	**0.67311**	2.50740	0.60000	**1.91048**
	B->X (FF)	0.01860	0.00100	**0.24745**	0.32940	0.12960	**0.67045**	2.50740	0.60000	**1.95901**
	C->X (FF)	0.01860	0.00100	**0.22775**	0.32940	0.12960	**0.65371**	2.50740	0.60000	**1.95747**
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.20395**	0.32940	0.06480	**0.58786**	2.50740	0.30000	**1.76557**
	B->X (FF)	0.01860	0.00100	**0.19646**	0.32940	0.06480	**0.58379**	2.50740	0.30000	**1.78771**
	C->X (FF)	0.01860	0.00100	**0.17617**	0.32940	0.06480	**0.56584**	2.50740	0.30000	**1.77115**

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	**0.00821**	0.32940	0.12960	**0.00818**	2.50740	0.60000	**0.00979**
	B	0.01860	0.00100	**0.00793**	0.32940	0.12960	**0.00789**	2.50740	0.60000	**0.00957**
	C	0.01860	0.00100	**0.00777**	0.32940	0.12960	**0.00785**	2.50740	0.60000	**0.00931**
sg13g2_or3_1	A	0.01860	0.00100	**0.00525**	0.32940	0.06480	**0.00507**	2.50740	0.30000	**0.00667**
	B	0.01860	0.00100	**0.00498**	0.32940	0.06480	**0.00478**	2.50740	0.30000	**0.00660**
	C	0.01860	0.00100	**0.00480**	0.32940	0.06480	**0.00457**	2.50740	0.30000	**0.00666**

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	**0.01136**	0.32940	0.12960	**0.01156**	2.50740	0.60000	**0.01074**
	B	0.01860	0.00100	**0.01017**	0.32940	0.12960	**0.01028**	2.50740	0.60000	**0.01051**
	C	0.01860	0.00100	**0.00890**	0.32940	0.12960	**0.00886**	2.50740	0.60000	**0.00962**
sg13g2_or3_1	A	0.01860	0.00100	**0.00834**	0.32940	0.06480	**0.00838**	2.50740	0.30000	**0.00892**
	B	0.01860	0.00100	**0.00713**	0.32940	0.06480	**0.00710**	2.50740	0.30000	**0.00766**
	C	0.01860	0.00100	**0.00581**	0.32940	0.06480	**0.00580**	2.50740	0.30000	**0.00706**

OR4x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00239	0.00234	0.00204	0.00208	0.60000
sg13g2_or4_1	0.00239	0.00234	0.00204	0.00208	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_2	453.53000	704.29300	1323.92000
sg13g2_or4_1	318.55900	547.89900	1023.44000

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	**0.11802**	0.32940	0.12960	**0.57408**	2.50740	0.60000	**2.12668**
	B->X (RR)	0.01860	0.00100	**0.11548**	0.32940	0.12960	**0.56661**	2.50740	0.60000	**2.09073**
	C->X (RR)	0.01860	0.00100	**0.10917**	0.32940	0.12960	**0.55517**	2.50740	0.60000	**2.03983**
	D->X (RR)	0.01860	0.00100	**0.10042**	0.32940	0.12960	**0.53998**	2.50740	0.60000	**1.99806**
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.10145**	0.32940	0.06480	**0.54117**	2.50740	0.30000	**2.02272**
	B->X (RR)	0.01860	0.00100	**0.09954**	0.32940	0.06480	**0.53205**	2.50740	0.30000	**1.98067**
	C->X (RR)	0.01860	0.00100	**0.09358**	0.32940	0.06480	**0.51890**	2.50740	0.30000	**1.93003**
	D->X (RR)	0.01860	0.00100	**0.08487**	0.32940	0.06480	**0.50139**	2.50740	0.30000	**1.87324**

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	**0.35014**	0.32940	0.12960	**0.79789**	2.50740	0.60000	**2.02828**
	B->X (FF)	0.01860	0.00100	**0.34335**	0.32940	0.12960	**0.79113**	2.50740	0.60000	**2.07072**
	C->X (FF)	0.01860	0.00100	**0.32349**	0.32940	0.12960	**0.77258**	2.50740	0.60000	**2.09614**
	D->X (FF)	0.01860	0.00100	**0.28877**	0.32940	0.12960	**0.73928**	2.50740	0.60000	**2.07919**
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.28290**	0.32940	0.06480	**0.68971**	2.50740	0.30000	**1.87352**
	B->X (FF)	0.01860	0.00100	**0.27613**	0.32940	0.06480	**0.68283**	2.50740	0.30000	**1.89773**
	C->X (FF)	0.01860	0.00100	**0.25618**	0.32940	0.06480	**0.66331**	2.50740	0.30000	**1.90840**
	D->X (FF)	0.01860	0.00100	**0.22081**	0.32940	0.06480	**0.62865**	2.50740	0.30000	**1.87622**

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	**0.00858**	0.32940	0.12960	**0.00849**	2.50740	0.60000	**0.01003**
	B	0.01860	0.00100	**0.00829**	0.32940	0.12960	**0.00832**	2.50740	0.60000	**0.00997**
	C	0.01860	0.00100	**0.00759**	0.32940	0.12960	**0.00755**	2.50740	0.60000	**0.00802**
	D	0.01860	0.00100	**0.00675**	0.32940	0.12960	**0.00654**	2.50740	0.60000	**0.00830**
sg13g2_or4_1	A	0.01860	0.00100	**0.00561**	0.32940	0.06480	**0.00551**	2.50740	0.30000	**0.00710**
	B	0.01860	0.00100	**0.00533**	0.32940	0.06480	**0.00520**	2.50740	0.30000	**0.00671**
	C	0.01860	0.00100	**0.00463**	0.32940	0.06480	**0.00445**	2.50740	0.30000	**0.00617**
	D	0.01860	0.00100	**0.00376**	0.32940	0.06480	**0.00356**	2.50740	0.30000	**0.00542**

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	**0.01247**	0.32940	0.12960	**0.01247**	2.50740	0.60000	**0.01115**
	B	0.01860	0.00100	**0.01185**	0.32940	0.12960	**0.01180**	2.50740	0.60000	**0.01076**
	C	0.01860	0.00100	**0.01077**	0.32940	0.12960	**0.01072**	2.50740	0.60000	**0.01018**
	D	0.01860	0.00100	**0.00871**	0.32940	0.12960	**0.00865**	2.50740	0.60000	**0.00847**
sg13g2_or4_1	A	0.01860	0.00100	**0.00923**	0.32940	0.06480	**0.00931**	2.50740	0.30000	**0.00953**
	B	0.01860	0.00100	**0.00859**	0.32940	0.06480	**0.00866**	2.50740	0.30000	**0.00901**
	C	0.01860	0.00100	**0.00750**	0.32940	0.06480	**0.00751**	2.50740	0.30000	**0.00828**
	D	0.01860	0.00100	**0.00544**	0.32940	0.06480	**0.00535**	2.50740	0.30000	**0.00700**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00005**	0.32940	**-0.00005**	2.50740	**-0.00008**
sg13g2_or4_1	0.01860	**0.00005**	0.32940	**-0.00005**	2.50740	**-0.00008**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00052**	0.32940	**0.00054**	2.50740	**0.00052**
sg13g2_or4_1	0.01860	**0.00051**	0.32940	**0.00054**	2.50740	**0.00052**

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	**0.00005**	0.32940	**-0.00005**	2.50740	**-0.00008**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00005**	0.32940	**-0.00005**	2.50740	**-0.00008**

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	**0.00052**	0.32940	**0.00054**	2.50740	**0.00052**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00051**	0.32940	**0.00054**	2.50740	**0.00052**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00007**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	0.01860	**0.00007**	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	**-0.00002**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	0.01860	**-0.00002**	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	**0.00007**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**0.00007**	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	**-0.00002**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**-0.00002**	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	**0.00040**	0.32940	**0.00042**	2.50740	**0.00042**
sg13g2_or4_1	0.01860	**0.00040**	0.32940	**0.00042**	2.50740	**0.00042**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00013**	0.32940	**-0.00013**	2.50740	**-0.00013**
sg13g2_or4_1	0.01860	**-0.00013**	0.32940	**-0.00014**	2.50740	**-0.00013**

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	**0.00040**	0.32940	**0.00042**	2.50740	**0.00042**
sg13g2_or4_1	**(A * !D) + (!A * B * !D)**	0.01860	**0.00040**	0.32940	**0.00042**	2.50740	**0.00042**

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	**-0.00013**	0.32940	**-0.00013**	2.50740	**-0.00013**
sg13g2_or4_1	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00013**	0.32940	**-0.00014**	2.50740	**-0.00013**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00102**	0.32940	**0.00105**	2.50740	**0.00105**
sg13g2_or4_1	0.01860	**0.00103**	0.32940	**0.00105**	2.50740	**0.00105**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00062**	0.32940	**0.00060**	2.50740	**0.00062**
sg13g2_or4_1	0.01860	**0.00061**	0.32940	**0.00060**	2.50740	**0.00062**

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	**0.00102**	0.32940	**0.00105**	2.50740	**0.00105**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00103**	0.32940	**0.00105**	2.50740	**0.00105**

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	**0.00062**	0.32940	**0.00060**	2.50740	**0.00062**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00061**	0.32940	**0.00060**	2.50740	**0.00062**

SDFRRS

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00188	0.00184	0.00337	0.00163	0.00494	0.00284	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	2642.51000	3706.54000	4660.45000

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	**0.47392**	0.32940	0.06480	**0.88199**	2.50740	0.30000	**2.24610**
	SET_B->Q (FR)	0.01860	0.00100	**0.18708**	0.32940	0.06480	**0.61012**	2.50740	0.30000	**2.03334**

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	**0.38798**	0.32940	0.06480	**0.75807**	2.50740	0.30000	**1.98696**
	RESET_B->Q (FF)	0.01860	0.00100	**0.31974**	0.32940	0.06480	**0.70235**	2.50740	0.30000	**1.97646**

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	**0.47392**	0.32940	0.06480	**0.88199**	2.50740	0.30000	**2.24610**

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	**0.38798**	0.32940	0.06480	**0.75807**	2.50740	0.30000	**1.98696**

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	**0.31804**	0.32940	0.06480	**0.75769**	2.50740	0.30000	**2.14688**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.24820**	0.32940	0.06480	**0.71273**	2.50740	0.30000	**2.15015**

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	**0.39257**	0.32940	0.06480	**0.82430**	2.50740	0.30000	**2.04096**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.12192**	0.32940	0.06480	**0.54119**	2.50740	0.30000	**1.86000**

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	**0.31804**	0.32940	0.06480	**0.75769**	2.50740	0.30000	**2.14688**

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	**0.39257**	0.32940	0.06480	**0.82430**	2.50740	0.30000	**2.04096**

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	**-0.14916**	1.26300	1.26300	**-0.37507**	2.50740	2.50740	**-0.51062**
	setup	CLK (R)	0.01860	0.01860	**0.22251**	1.26300	1.26300	**0.42364**	2.50740	2.50740	**0.56965**

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	**-0.15405**	1.26300	1.26300	**-0.23206**	2.50740	2.50740	**-0.28630**
	setup	CLK (R)	0.01860	0.01860	**0.28609**	1.26300	1.26300	**0.36428**	2.50740	2.50740	**0.46634**

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	**-0.18828**	1.26300	1.26300	**-0.46412**	2.50740	2.50740	**-0.63753**
	setup	CLK (R)	0.01860	0.01860	**0.26408**	1.26300	1.26300	**0.50459**	2.50740	2.50740	**0.68771**

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	**-0.20051**	1.26300	1.26300	**-0.28063**	2.50740	2.50740	**-0.34828**
	setup	CLK (R)	0.01860	0.01860	**0.33744**	1.26300	1.26300	**0.40745**	2.50740	2.50740	**0.52537**

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	**-0.16138**	1.26300	1.26300	**-0.41555**	2.50740	2.50740	**-0.57260**
	setup	CLK (R)	0.01860	0.01860	**0.23718**	1.26300	1.26300	**0.46682**	2.50740	2.50740	**0.62868**

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	**-0.15405**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.23317**
	setup	CLK (R)	0.01860	0.01860	**0.28609**	1.26300	1.26300	**0.32920**	2.50740	2.50740	**0.42207**

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	**0.12470**	1.26300	1.26300	**0.21857**	2.50740	2.50740	**0.28630**
	removal	CLK (R)	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.15920**	2.50740	2.50740	**-0.20956**

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	**0.06358**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.61097**
	removal	CLK (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.14301**	2.50740	2.50740	**0.17709**
	hold	RESET_B (R)	0.01860	0.01860	**-0.12470**	1.26300	1.26300	**-0.31301**	2.50740	2.50740	**-0.40141**
	setup	RESET_B (R)	0.01860	0.01860	**0.15894**	1.26300	1.26300	**0.38047**	2.50740	2.50740	**0.49881**

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	**0.01308**	0.32940	0.06480	**0.01331**	2.50740	0.30000	**0.01483**
	SET_B	0.01860	0.00100	**0.02469**	0.32940	0.06480	**0.06163**	2.50740	0.30000	**0.20190**

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	**0.01292**	0.32940	0.06480	**0.01289**	2.50740	0.30000	**0.01397**
	RESET_B	0.01860	0.00100	**0.02766**	0.32940	0.06480	**0.06492**	2.50740	0.30000	**0.20255**

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	**0.01308**	0.32940	0.06480	**0.01331**	2.50740	0.30000	**0.01483**

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	**0.01292**	0.32940	0.06480	**0.01289**	2.50740	0.30000	**0.01397**

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	**0.01293**	0.32940	0.06480	**0.01299**	2.50740	0.30000	**0.01482**
	RESET_B	0.01860	0.00100	**0.02768**	0.32940	0.06480	**0.06511**	2.50740	0.30000	**0.20343**

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	**0.01309**	0.32940	0.06480	**0.01319**	2.50740	0.30000	**0.01435**
	SET_B	0.01860	0.00100	**0.02469**	0.32940	0.06480	**0.06135**	2.50740	0.30000	**0.20121**

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	**0.01293**	0.32940	0.06480	**0.01299**	2.50740	0.30000	**0.01482**

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	**0.01309**	0.32940	0.06480	**0.01319**	2.50740	0.30000	**0.01435**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**-0.00063**	0.32940	**-0.00084**	2.50740	**0.00025**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00410**	0.32940	**0.00393**	2.50740	**0.00496**

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	**0.00892**	0.32940	**0.00866**	2.50740	**0.00986**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**-0.00063**	0.32940	**-0.00084**	2.50740	**0.00025**

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	**0.00889**	0.32940	**0.00867**	2.50740	**0.00982**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00410**	0.32940	**0.00393**	2.50740	**0.00496**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00432**	0.32940	**0.00418**	2.50740	**0.00482**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**-0.00198**	0.32940	**-0.00208**	2.50740	**-0.00150**

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	**0.01012**	0.32940	**0.00998**	2.50740	**0.01064**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00432**	0.32940	**0.00418**	2.50740	**0.00482**

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	**0.01176**	0.32940	**0.01135**	2.50740	**0.01203**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**-0.00198**	0.32940	**-0.00208**	2.50740	**-0.00150**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00847**	0.32940	**0.00770**	2.50740	**0.00921**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00038**	0.32940	**0.00601**	2.50740	**0.02066**

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	**0.01132**	0.32940	**0.01121**	2.50740	**0.01273**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.00847**	0.32940	**0.00770**	2.50740	**0.00921**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01048**	0.32940	**0.01021**	2.50740	**0.01308**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00460**	0.32940	**0.00434**	2.50740	**0.00712**

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	**0.01178**	0.32940	**0.01169**	2.50740	**0.01305**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.00887**	0.32940	**0.01402**	2.50740	**0.01605**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00038**	0.32940	**0.00601**	2.50740	**0.02066**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**-0.00342**	0.32940	**-0.00360**	2.50740	**-0.00136**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00958**	0.32940	**0.00920**	2.50740	**0.01233**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00928**	0.32940	**0.00899**	2.50740	**0.01193**

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	**0.00984**	0.32940	**0.00955**	2.50740	**0.01265**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.00958**	0.32940	**0.00920**	2.50740	**0.01233**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.00964**	0.32940	**0.00929**	2.50740	**0.01240**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.00984**	0.32940	**0.00955**	2.50740	**0.01265**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00171**	0.32940	**0.00136**	2.50740	**0.00447**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.00963**	0.32940	**0.00928**	2.50740	**0.01239**

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	**0.00883**	0.32940	**0.00851**	2.50740	**0.01147**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01604**	0.32940	**0.01560**	2.50740	**0.01856**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.00375**	0.32940	**0.00344**	2.50740	**0.00670**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01725**	0.32940	**0.01694**	2.50740	**0.02020**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.00928**	0.32940	**0.00899**	2.50740	**0.01193**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.00883**	0.32940	**0.00851**	2.50740	**0.01147**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00026**	0.32940	**-0.00001**	2.50740	**0.00292**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.00891**	0.32940	**0.00863**	2.50740	**0.01156**

SGCLK

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00192	0.00226	0.00466	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	1673.78000	2008.86000	2370.63000

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	**0.11286**	0.32940	0.06480	**0.51588**	2.50740	0.30000	**1.87779**

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	**0.09070**	0.32940	0.06480	**0.46901**	2.50740	0.30000	**1.65907**

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	**-0.06567**	1.26300	1.26300	**-0.28333**	2.50740	2.50740	**-0.39779**
	setup	CLK (R)	0.01860	0.01860	**0.10150**	1.26300	1.26300	**0.38856**	2.50740	2.50740	**0.57540**

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	**-0.10942**	1.26300	1.26300	**-0.22127**	2.50740	2.50740	**-0.29835**
	setup	CLK (R)	0.01860	0.01860	**0.17900**	1.26300	1.26300	**0.28873**	2.50740	2.50740	**0.39178**

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	**-0.07329**	1.26300	1.26300	**-0.31571**	2.50740	2.50740	**-0.44168**
	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	**-0.11790**	1.26300	1.26300	**-0.20508**	2.50740	2.50740	**-0.27499**
	setup	CLK (R)	0.01860	0.01860	**0.18659**	1.26300	1.26300	**0.26714**	2.50740	2.50740	**0.36418**

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	**0.00835**	0.32940	0.06480	**0.00832**	2.50740	0.30000	**0.01035**

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	**0.00756**	0.32940	0.06480	**0.00766**	2.50740	0.30000	**0.00968**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01514**	0.32940	**0.01538**	2.50740	**0.01735**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00644**	0.32940	**0.02081**	2.50740	**0.02499**

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	**0.01514**	0.32940	**0.01538**	2.50740	**0.01735**

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	**0.00644**	0.32940	**0.02081**	2.50740	**0.02499**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00521**	0.32940	**0.00499**	2.50740	**0.00692**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00845**	0.32940	**0.02040**	2.50740	**0.02374**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00439**	0.32940	**0.00409**	2.50740	**0.00692**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00303**	0.32940	**0.00274**	2.50740	**0.00548**

TIE0

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	12.60110	12.60110	12.60110

TIE1

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	14.33910	14.33910	14.33910

XNOR2_1

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00512	0.00475	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	279.17200	857.22800	1222.57000

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	**0.11117**	0.32940	0.06480	**0.51459**	2.50740	0.30000	**1.87394**
	A->Y (FR)	0.01860	0.00100	**0.07861**	0.32940	0.06480	**0.78652**	2.50740	0.30000	**3.75442**
	B->Y (RR)	0.01860	0.00100	**0.10403**	0.32940	0.06480	**0.50490**	2.50740	0.30000	**1.83733**
	B->Y (FR)	0.01860	0.00100	**0.07024**	0.32940	0.06480	**0.78747**	2.50740	0.30000	**3.87277**

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	**0.10570**	0.32940	0.06480	**0.67380**	2.50740	0.30000	**2.56701**
	A->Y (RF)	0.01860	0.00100	**0.06901**	0.32940	0.06480	**0.64647**	2.50740	0.30000	**3.20008**
	B->Y (FF)	0.01860	0.00100	**0.10798**	0.32940	0.06480	**0.65901**	2.50740	0.30000	**2.52394**
	B->Y (RF)	0.01860	0.00100	**0.05875**	0.32940	0.06480	**0.63400**	2.50740	0.30000	**3.18094**

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	**0.00617**	0.32940	0.06480	**0.00599**	2.50740	0.30000	**0.00797**
	B	0.01860	0.00100	**0.00625**	0.32940	0.06480	**0.00584**	2.50740	0.30000	**0.00804**

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	**0.00543**	0.32940	0.06480	**0.00548**	2.50740	0.30000	**0.00698**
	B	0.01860	0.00100	**0.00610**	0.32940	0.06480	**0.00501**	2.50740	0.30000	**0.00643**

XOR2_1

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00536	0.00487	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	674.43500	861.63400	1243.37000

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	**0.10723**	0.32940	0.06480	**0.82417**	2.50740	0.30000	**3.31453**
	A->X (FR)	0.01860	0.00100	**0.08640**	0.32940	0.06480	**0.79774**	2.50740	0.30000	**3.76908**
	B->X (RR)	0.01860	0.00100	**0.11229**	0.32940	0.06480	**0.80741**	2.50740	0.30000	**3.25019**
	B->X (FR)	0.01860	0.00100	**0.07508**	0.32940	0.06480	**0.78445**	2.50740	0.30000	**3.75551**

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	**0.13342**	0.32940	0.06480	**0.49969**	2.50740	0.30000	**1.64859**
	A->X (RF)	0.01860	0.00100	**0.06506**	0.32940	0.06480	**0.64237**	2.50740	0.30000	**3.18565**
	B->X (FF)	0.01860	0.00100	**0.12484**	0.32940	0.06480	**0.49343**	2.50740	0.30000	**1.64214**
	B->X (RF)	0.01860	0.00100	**0.05720**	0.32940	0.06480	**0.63748**	2.50740	0.30000	**3.24371**

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	**0.00564**	0.32940	0.06480	**0.00559**	2.50740	0.30000	**0.00741**
	B	0.01860	0.00100	**0.00607**	0.32940	0.06480	**0.00505**	2.50740	0.30000	**0.00692**

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	**0.00666**	0.32940	0.06480	**0.00660**	2.50740	0.30000	**0.00751**
	B	0.01860	0.00100	**0.00616**	0.32940	0.06480	**0.00585**	2.50740	0.30000	**0.00781**