sg13g2_stdcell_typ_1p50V_25C 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_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21oi_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	0.00569	0.00627	0.00556	0.60000
sg13g2_a21oi_1	0.00296	0.00312	0.00283	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_2	373.63800	717.09200	919.64000
sg13g2_a21oi_1	186.81800	358.54600	459.82100

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	**0.03026**	0.32940	0.12960	**0.37717**	2.50740	0.60000	**1.90552**
	A2->Y (FR)	0.01860	0.00100	**0.03661**	0.32940	0.12960	**0.38240**	2.50740	0.60000	**1.90984**
	B1->Y (FR)	0.01860	0.00100	**0.02911**	0.32940	0.12960	**0.40411**	2.50740	0.60000	**2.15981**
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.03317**	0.32940	0.06480	**0.37658**	2.50740	0.30000	**1.90153**
	A2->Y (FR)	0.01860	0.00100	**0.03934**	0.32940	0.06480	**0.38300**	2.50740	0.30000	**1.91041**
	B1->Y (FR)	0.01860	0.00100	**0.03181**	0.32940	0.06480	**0.40441**	2.50740	0.30000	**2.15901**

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	**0.02474**	0.32940	0.12960	**0.32512**	2.50740	0.60000	**1.75991**
	A2->Y (RF)	0.01860	0.00100	**0.02800**	0.32940	0.12960	**0.30730**	2.50740	0.60000	**1.59535**
	B1->Y (RF)	0.01860	0.00100	**0.01491**	0.32940	0.12960	**0.24818**	2.50740	0.60000	**1.37871**
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.02702**	0.32940	0.06480	**0.32544**	2.50740	0.30000	**1.75880**
	A2->Y (RF)	0.01860	0.00100	**0.03004**	0.32940	0.06480	**0.30739**	2.50740	0.30000	**1.59337**
	B1->Y (RF)	0.01860	0.00100	**0.01598**	0.32940	0.06480	**0.24753**	2.50740	0.30000	**1.38181**

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	**0.02911**	0.32940	0.12960	**0.40411**	2.50740	0.60000	**2.15981**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02226**	0.32940	0.12960	**0.39813**	2.50740	0.60000	**2.15653**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.01922**	0.32940	0.12960	**0.33566**	2.50740	0.60000	**1.85122**
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.03181**	0.32940	0.06480	**0.40441**	2.50740	0.30000	**2.15901**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02495**	0.32940	0.06480	**0.39687**	2.50740	0.30000	**2.14733**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.02119**	0.32940	0.06480	**0.33527**	2.50740	0.30000	**1.84878**

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	**0.01491**	0.32940	0.12960	**0.24818**	2.50740	0.60000	**1.37871**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01460**	0.32940	0.12960	**0.24694**	2.50740	0.60000	**1.37579**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01435**	0.32940	0.12960	**0.24673**	2.50740	0.60000	**1.37765**
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01649**	0.32940	0.06480	**0.24902**	2.50740	0.30000	**1.37875**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01620**	0.32940	0.06480	**0.24770**	2.50740	0.30000	**1.37617**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01598**	0.32940	0.06480	**0.24753**	2.50740	0.30000	**1.38181**

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	**0.01070**	0.32940	0.12960	**0.01181**	2.50740	0.60000	**0.03289**
	A2	0.01860	0.00100	**0.01393**	0.32940	0.12960	**0.01468**	2.50740	0.60000	**0.03638**
	B1	0.01860	0.00100	**0.00905**	0.32940	0.12960	**0.01113**	2.50740	0.60000	**0.03705**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00549**	0.32940	0.06480	**0.00595**	2.50740	0.30000	**0.01637**
	A2	0.01860	0.00100	**0.00694**	0.32940	0.06480	**0.00730**	2.50740	0.30000	**0.01815**
	B1	0.01860	0.00100	**0.00450**	0.32940	0.06480	**0.00544**	2.50740	0.30000	**0.01809**

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	**0.01009**	0.32940	0.12960	**0.01085**	2.50740	0.60000	**0.03203**
	A2	0.01860	0.00100	**0.01480**	0.32940	0.12960	**0.01502**	2.50740	0.60000	**0.03489**
	B1	0.01860	0.00100	**0.00296**	0.32940	0.12960	**0.00561**	2.50740	0.60000	**0.03009**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00557**	0.32940	0.06480	**0.00596**	2.50740	0.30000	**0.01583**
	A2	0.01860	0.00100	**0.00776**	0.32940	0.06480	**0.00790**	2.50740	0.30000	**0.01781**
	B1	0.01860	0.00100	**0.00194**	0.32940	0.06480	**0.00324**	2.50740	0.30000	**0.01597**

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	**0.00905**	0.32940	0.12960	**0.01113**	2.50740	0.60000	**0.03705**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00772**	0.32940	0.12960	**0.01020**	2.50740	0.60000	**0.03602**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00779**	0.32940	0.12960	**0.01035**	2.50740	0.60000	**0.03792**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00450**	0.32940	0.06480	**0.00544**	2.50740	0.30000	**0.01809**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00398**	0.32940	0.06480	**0.00518**	2.50740	0.30000	**0.01791**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00400**	0.32940	0.06480	**0.00520**	2.50740	0.30000	**0.01895**

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	**0.00856**	0.32940	0.12960	**0.01127**	2.50740	0.60000	**0.03353**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00324**	0.32940	0.12960	**0.00584**	2.50740	0.60000	**0.02824**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00296**	0.32940	0.12960	**0.00561**	2.50740	0.60000	**0.03009**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00474**	0.32940	0.06480	**0.00608**	2.50740	0.30000	**0.01685**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00208**	0.32940	0.06480	**0.00333**	2.50740	0.30000	**0.01407**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00194**	0.32940	0.06480	**0.00324**	2.50740	0.30000	**0.01597**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00163**	0.32940	**-0.00167**	2.50740	**-0.00166**
sg13g2_a21oi_1	0.01860	**-0.00081**	0.32940	**-0.00083**	2.50740	**-0.00083**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00296**	0.32940	**0.00304**	2.50740	**0.00306**
sg13g2_a21oi_1	0.01860	**0.00136**	0.32940	**0.00140**	2.50740	**0.00140**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**-0.00163**	0.32940	**-0.00167**	2.50740	**-0.00166**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**-0.00081**	0.32940	**-0.00083**	2.50740	**-0.00083**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**0.00296**	0.32940	**0.00304**	2.50740	**0.00306**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**0.00136**	0.32940	**0.00140**	2.50740	**0.00140**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00076**	0.32940	**-0.00049**	2.50740	**-0.00039**
sg13g2_a21oi_1	0.01860	**-0.00038**	0.32940	**-0.00025**	2.50740	**-0.00020**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00076**	0.32940	**0.00049**	2.50740	**0.00039**
sg13g2_a21oi_1	0.01860	**0.00038**	0.32940	**0.00025**	2.50740	**0.00020**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**-0.00076**	0.32940	**-0.00049**	2.50740	**-0.00039**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**-0.00038**	0.32940	**-0.00025**	2.50740	**-0.00020**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**0.00076**	0.32940	**0.00049**	2.50740	**0.00039**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**0.00038**	0.32940	**0.00025**	2.50740	**0.00020**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00128**	0.32940	**0.00132**	2.50740	**0.00132**
sg13g2_a21oi_1	0.01860	**0.00070**	0.32940	**0.00073**	2.50740	**0.00073**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00128**	0.32940	**-0.00132**	2.50740	**-0.00132**
sg13g2_a21oi_1	0.01860	**-0.00070**	0.32940	**-0.00073**	2.50740	**-0.00073**

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	**0.00128**	0.32940	**0.00132**	2.50740	**0.00132**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**0.00070**	0.32940	**0.00073**	2.50740	**0.00073**

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	**-0.00128**	0.32940	**-0.00132**	2.50740	**-0.00132**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**-0.00070**	0.32940	**-0.00073**	2.50740	**-0.00073**

A221OI

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a221oi_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A1	A2	B1	B2	C1	Y
sg13g2_a221oi_1	0.00308	0.00314	0.00285	0.00295	0.00260	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	279.73700	536.89500	725.27700

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	**0.07445**	0.32940	0.12960	**0.91783**	2.50740	0.60000	**4.15179**
	A2->Y (FR)	0.01860	0.00100	**0.07297**	0.32940	0.12960	**0.91649**	2.50740	0.60000	**4.15450**
	B1->Y (FR)	0.01860	0.00100	**0.06643**	0.32940	0.12960	**0.93042**	2.50740	0.60000	**4.36294**
	B2->Y (FR)	0.01860	0.00100	**0.07530**	0.32940	0.12960	**0.93685**	2.50740	0.60000	**4.36273**
	C1->Y (FR)	0.01860	0.00100	**0.04811**	0.32940	0.12960	**0.92968**	2.50740	0.60000	**4.50161**

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	**0.03428**	0.32940	0.12960	**0.51762**	2.50740	0.60000	**2.66216**
	A2->Y (RF)	0.01860	0.00100	**0.03710**	0.32940	0.12960	**0.50101**	2.50740	0.60000	**2.49726**
	B1->Y (RF)	0.01860	0.00100	**0.03162**	0.32940	0.12960	**0.51026**	2.50740	0.60000	**2.65409**
	B2->Y (RF)	0.01860	0.00100	**0.03456**	0.32940	0.12960	**0.49248**	2.50740	0.60000	**2.48759**
	C1->Y (RF)	0.01860	0.00100	**0.01864**	0.32940	0.12960	**0.36203**	2.50740	0.60000	**2.03895**

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	**0.07445**	0.32940	0.12960	**0.91783**	2.50740	0.60000	**4.15179**
	A1->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.06377**	0.32940	0.12960	**0.90960**	2.50740	0.60000	**4.15073**
	A1->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.05779**	0.32940	0.12960	**0.78083**	2.50740	0.60000	**3.62262**
	A2->Y (FR)	(B1 * !B2)	0.01860	0.00100	**0.08333**	0.32940	0.12960	**0.92471**	2.50740	0.60000	**4.15397**
	A2->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.07297**	0.32940	0.12960	**0.91649**	2.50740	0.60000	**4.15450**
	A2->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.06529**	0.32940	0.12960	**0.78667**	2.50740	0.60000	**3.62627**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.06643**	0.32940	0.12960	**0.93042**	2.50740	0.60000	**4.36294**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.05569**	0.32940	0.12960	**0.92083**	2.50740	0.60000	**4.35819**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.04711**	0.32940	0.12960	**0.78093**	2.50740	0.60000	**3.74374**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.07530**	0.32940	0.12960	**0.93685**	2.50740	0.60000	**4.36273**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.06489**	0.32940	0.12960	**0.92802**	2.50740	0.60000	**4.35846**
	B2->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.05454**	0.32940	0.12960	**0.78582**	2.50740	0.60000	**3.74178**
	C1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.04811**	0.32940	0.12960	**0.92968**	2.50740	0.60000	**4.50161**

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	**0.03428**	0.32940	0.12960	**0.51762**	2.50740	0.60000	**2.66216**
	A1->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.03332**	0.32940	0.12960	**0.51493**	2.50740	0.60000	**2.65980**
	A1->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.03477**	0.32940	0.12960	**0.51775**	2.50740	0.60000	**2.66119**
	A2->Y (RF)	(B1 * !B2)	0.01860	0.00100	**0.03710**	0.32940	0.12960	**0.50101**	2.50740	0.60000	**2.49726**
	A2->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.03623**	0.32940	0.12960	**0.49751**	2.50740	0.60000	**2.49292**
	A2->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.03769**	0.32940	0.12960	**0.50006**	2.50740	0.60000	**2.49634**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.03162**	0.32940	0.12960	**0.51026**	2.50740	0.60000	**2.65409**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03100**	0.32940	0.12960	**0.50759**	2.50740	0.60000	**2.65209**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.03068**	0.32940	0.12960	**0.50750**	2.50740	0.60000	**2.65350**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.03456**	0.32940	0.12960	**0.49248**	2.50740	0.60000	**2.48759**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03394**	0.32940	0.12960	**0.48983**	2.50740	0.60000	**2.48345**
	B2->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.03365**	0.32940	0.12960	**0.48934**	2.50740	0.60000	**2.48429**
	C1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01864**	0.32940	0.12960	**0.36203**	2.50740	0.60000	**2.03895**

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	**0.01286**	0.32940	0.12960	**0.01257**	2.50740	0.60000	**0.01722**
	A2	0.01860	0.00100	**0.01311**	0.32940	0.12960	**0.01262**	2.50740	0.60000	**0.01750**
	B1	0.01860	0.00100	**0.01166**	0.32940	0.12960	**0.01145**	2.50740	0.60000	**0.01599**
	B2	0.01860	0.00100	**0.01147**	0.32940	0.12960	**0.01111**	2.50740	0.60000	**0.01581**
	C1	0.01860	0.00100	**0.00534**	0.32940	0.12960	**0.00548**	2.50740	0.60000	**0.01073**

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	**0.00770**	0.32940	0.12960	**0.00721**	2.50740	0.60000	**0.01014**
	A2	0.01860	0.00100	**0.01031**	0.32940	0.12960	**0.00969**	2.50740	0.60000	**0.01253**
	B1	0.01860	0.00100	**0.00316**	0.32940	0.12960	**0.00300**	2.50740	0.60000	**0.00640**
	B2	0.01860	0.00100	**0.00581**	0.32940	0.12960	**0.00534**	2.50740	0.60000	**0.00861**
	C1	0.01860	0.00100	**0.00493**	0.32940	0.12960	**0.00533**	2.50740	0.60000	**0.00968**

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	**0.01286**	0.32940	0.12960	**0.01257**	2.50740	0.60000	**0.01722**
	A1	(!B1 * B2)	0.01860	0.00100	**0.01235**	0.32940	0.12960	**0.01214**	2.50740	0.60000	**0.01697**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.01537**	0.32940	0.12960	**0.01520**	2.50740	0.60000	**0.01970**
	A2	(B1 * !B2)	0.01860	0.00100	**0.01311**	0.32940	0.12960	**0.01262**	2.50740	0.60000	**0.01750**
	A2	(!B1 * B2)	0.01860	0.00100	**0.01270**	0.32940	0.12960	**0.01225**	2.50740	0.60000	**0.01729**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.01570**	0.32940	0.12960	**0.01522**	2.50740	0.60000	**0.02059**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01166**	0.32940	0.12960	**0.01145**	2.50740	0.60000	**0.01599**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01115**	0.32940	0.12960	**0.01101**	2.50740	0.60000	**0.01506**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01113**	0.32940	0.12960	**0.01101**	2.50740	0.60000	**0.01560**
	B2	(A1 * !A2)	0.01860	0.00100	**0.01191**	0.32940	0.12960	**0.01148**	2.50740	0.60000	**0.01563**
	B2	(!A1 * A2)	0.01860	0.00100	**0.01149**	0.32940	0.12960	**0.01118**	2.50740	0.60000	**0.01525**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.01147**	0.32940	0.12960	**0.01111**	2.50740	0.60000	**0.01581**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00534**	0.32940	0.12960	**0.00548**	2.50740	0.60000	**0.01073**

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	**0.01036**	0.32940	0.12960	**0.00979**	2.50740	0.60000	**0.01270**
	A1	(!B1 * B2)	0.01860	0.00100	**0.00770**	0.32940	0.12960	**0.00721**	2.50740	0.60000	**0.01014**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.00632**	0.32940	0.12960	**0.00586**	2.50740	0.60000	**0.00883**
	A2	(B1 * !B2)	0.01860	0.00100	**0.01296**	0.32940	0.12960	**0.01240**	2.50740	0.60000	**0.01565**
	A2	(!B1 * B2)	0.01860	0.00100	**0.01031**	0.32940	0.12960	**0.00969**	2.50740	0.60000	**0.01253**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.00893**	0.32940	0.12960	**0.00828**	2.50740	0.60000	**0.01168**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00594**	0.32940	0.12960	**0.00574**	2.50740	0.60000	**0.00866**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00329**	0.32940	0.12960	**0.00311**	2.50740	0.60000	**0.00617**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00316**	0.32940	0.12960	**0.00300**	2.50740	0.60000	**0.00640**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00858**	0.32940	0.12960	**0.00812**	2.50740	0.60000	**0.01118**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00593**	0.32940	0.12960	**0.00554**	2.50740	0.60000	**0.00815**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.00581**	0.32940	0.12960	**0.00534**	2.50740	0.60000	**0.00861**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00493**	0.32940	0.12960	**0.00533**	2.50740	0.60000	**0.00968**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	**(B1 * B2 * !C1)**	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00181**	0.32940	**0.00184**	2.50740	**0.00186**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00181**	0.32940	**-0.00184**	2.50740	**-0.00186**

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	**0.00111**	0.32940	**0.00117**	2.50740	**0.00127**
	(A1 * A2 * !C1)	0.01860	**0.00181**	0.32940	**0.00184**	2.50740	**0.00186**

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	**-0.00009**	0.32940	**-0.00008**	2.50740	**-0.00007**
	(A1 * A2 * !C1)	0.01860	**-0.00181**	0.32940	**-0.00184**	2.50740	**-0.00186**

Passive power(pJ) for B2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00187**	0.32940	**0.00188**	2.50740	**0.00189**

Passive power(pJ) for B2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00187**	0.32940	**-0.00188**	2.50740	**-0.00189**

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	**0.00115**	0.32940	**0.00121**	2.50740	**0.00130**
	(A1 * A2 * !C1)	0.01860	**0.00187**	0.32940	**0.00188**	2.50740	**0.00189**

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	**-0.00012**	0.32940	**-0.00011**	2.50740	**-0.00010**
	(A1 * A2 * !C1)	0.01860	**-0.00187**	0.32940	**-0.00188**	2.50740	**-0.00189**

Passive power(pJ) for C1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00075**	0.32940	**0.00078**	2.50740	**0.00078**

Passive power(pJ) for C1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00083**	0.32940	**0.00086**	2.50740	**0.00087**

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	**0.00075**	0.32940	**0.00078**	2.50740	**0.00078**

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	**0.00083**	0.32940	**0.00086**	2.50740	**0.00087**

A22OI

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00324	0.00322	0.00373	0.00377	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	185.83400	432.97400	681.13400

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	**0.03402**	0.32940	0.06480	**0.33665**	2.50740	0.30000	**1.74761**
	A2->Y (FR)	0.01860	0.00100	**0.03834**	0.32940	0.06480	**0.34062**	2.50740	0.30000	**1.75177**
	B1->Y (FR)	0.01860	0.00100	**0.02786**	0.32940	0.06480	**0.34110**	2.50740	0.30000	**1.84999**
	B2->Y (FR)	0.01860	0.00100	**0.02364**	0.32940	0.06480	**0.33644**	2.50740	0.30000	**1.84371**

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	**0.03391**	0.32940	0.06480	**0.33172**	2.50740	0.30000	**1.76648**
	A2->Y (RF)	0.01860	0.00100	**0.03676**	0.32940	0.06480	**0.31333**	2.50740	0.30000	**1.60134**
	B1->Y (RF)	0.01860	0.00100	**0.02632**	0.32940	0.06480	**0.30138**	2.50740	0.30000	**1.58596**
	B2->Y (RF)	0.01860	0.00100	**0.02325**	0.32940	0.06480	**0.32081**	2.50740	0.30000	**1.75235**

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	**0.00533**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	A2	0.01860	0.00100	**0.00519**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B1	0.01860	0.00100	**0.00022**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B2	0.01860	0.00100	**0.00041**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a22oi_1	A1	0.01860	0.00100	**-0.00131**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	A2	0.01860	0.00100	**-0.00029**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B1	0.01860	0.00100	**-0.00022**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B2	0.01860	0.00100	**-0.00041**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00686**	0.32940	**0.01003**	2.50740	**0.04837**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00524**	0.32940	**0.01692**	2.50740	**0.05541**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00845**	0.32940	**0.01223**	2.50740	**0.04977**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00564**	0.32940	**0.01599**	2.50740	**0.05378**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00851**	0.32940	**0.01197**	2.50740	**0.04935**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00404**	0.32940	**0.00829**	2.50740	**0.04848**

Passive power(pJ) for B2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00584**	0.32940	**0.01042**	2.50740	**0.04866**

Passive power(pJ) for B2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00345**	0.32940	**0.00801**	2.50740	**0.04889**

AND2x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and2_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	0.00267	0.00271	0.60000
sg13g2_and2_1	0.00270	0.00273	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_2	556.11100	597.63900	672.04600
sg13g2_and2_1	314.36900	392.85900	489.11200

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	**0.05434**	0.32940	0.12960	**0.26703**	2.50740	0.60000	**0.92387**
	B->X (RR)	0.01860	0.00100	**0.05747**	0.32940	0.12960	**0.25888**	2.50740	0.60000	**0.88885**
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.04421**	0.32940	0.06480	**0.23601**	2.50740	0.30000	**0.86054**
	B->X (RR)	0.01860	0.00100	**0.04742**	0.32940	0.06480	**0.23175**	2.50740	0.30000	**0.83311**

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	**0.04817**	0.32940	0.12960	**0.24008**	2.50740	0.60000	**0.79839**
	B->X (FF)	0.01860	0.00100	**0.05182**	0.32940	0.12960	**0.25066**	2.50740	0.60000	**0.83291**
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.03949**	0.32940	0.06480	**0.20913**	2.50740	0.30000	**0.73355**
	B->X (FF)	0.01860	0.00100	**0.04327**	0.32940	0.06480	**0.22054**	2.50740	0.30000	**0.77015**

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	**0.01681**	0.32940	0.12960	**0.01931**	2.50740	0.60000	**0.05321**
	B	0.01860	0.00100	**0.01910**	0.32940	0.12960	**0.02062**	2.50740	0.60000	**0.05279**
sg13g2_and2_1	A	0.01860	0.00100	**0.01011**	0.32940	0.06480	**0.01336**	2.50740	0.30000	**0.04652**
	B	0.01860	0.00100	**0.01246**	0.32940	0.06480	**0.01476**	2.50740	0.30000	**0.04770**

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	**0.01506**	0.32940	0.12960	**0.01785**	2.50740	0.60000	**0.05230**
	B	0.01860	0.00100	**0.01532**	0.32940	0.12960	**0.01845**	2.50740	0.60000	**0.05316**
sg13g2_and2_1	A	0.01860	0.00100	**0.00883**	0.32940	0.06480	**0.01238**	2.50740	0.30000	**0.04655**
	B	0.01860	0.00100	**0.00906**	0.32940	0.06480	**0.01236**	2.50740	0.30000	**0.04555**

AND3x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and3_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	0.00248	0.00266	0.00269	0.60000
sg13g2_and3_1	0.00249	0.00267	0.00269	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_2	559.35700	660.53700	787.78100
sg13g2_and3_1	317.62500	437.28200	686.77600

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	**0.07242**	0.32940	0.12960	**0.30060**	2.50740	0.60000	**1.01341**
	B->X (RR)	0.01860	0.00100	**0.07872**	0.32940	0.12960	**0.29625**	2.50740	0.60000	**0.98829**
	C->X (RR)	0.01860	0.00100	**0.08150**	0.32940	0.12960	**0.28531**	2.50740	0.60000	**0.93651**
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.05789**	0.32940	0.06480	**0.26267**	2.50740	0.30000	**0.93744**
	B->X (RR)	0.01860	0.00100	**0.06427**	0.32940	0.06480	**0.26117**	2.50740	0.30000	**0.92099**
	C->X (RR)	0.01860	0.00100	**0.06703**	0.32940	0.06480	**0.25372**	2.50740	0.30000	**0.87790**

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	**0.05053**	0.32940	0.12960	**0.24520**	2.50740	0.60000	**0.78521**
	B->X (FF)	0.01860	0.00100	**0.05441**	0.32940	0.12960	**0.25491**	2.50740	0.60000	**0.81786**
	C->X (FF)	0.01860	0.00100	**0.05706**	0.32940	0.12960	**0.26328**	2.50740	0.60000	**0.85214**
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.04202**	0.32940	0.06480	**0.21450**	2.50740	0.30000	**0.71893**
	B->X (FF)	0.01860	0.00100	**0.04601**	0.32940	0.06480	**0.22565**	2.50740	0.30000	**0.75258**
	C->X (FF)	0.01860	0.00100	**0.04853**	0.32940	0.06480	**0.23492**	2.50740	0.30000	**0.79220**

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	**0.02003**	0.32940	0.12960	**0.02140**	2.50740	0.60000	**0.05566**
	B	0.01860	0.00100	**0.02141**	0.32940	0.12960	**0.02168**	2.50740	0.60000	**0.05513**
	C	0.01860	0.00100	**0.02356**	0.32940	0.12960	**0.02348**	2.50740	0.60000	**0.05649**
sg13g2_and3_1	A	0.01860	0.00100	**0.01256**	0.32940	0.06480	**0.01526**	2.50740	0.30000	**0.04773**
	B	0.01860	0.00100	**0.01394**	0.32940	0.06480	**0.01542**	2.50740	0.30000	**0.04587**
	C	0.01860	0.00100	**0.01608**	0.32940	0.06480	**0.01725**	2.50740	0.30000	**0.04859**

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	**0.01441**	0.32940	0.12960	**0.01682**	2.50740	0.60000	**0.04810**
	B	0.01860	0.00100	**0.01570**	0.32940	0.12960	**0.01803**	2.50740	0.60000	**0.05062**
	C	0.01860	0.00100	**0.01598**	0.32940	0.12960	**0.01849**	2.50740	0.60000	**0.05097**
sg13g2_and3_1	A	0.01860	0.00100	**0.00810**	0.32940	0.06480	**0.01108**	2.50740	0.30000	**0.04209**
	B	0.01860	0.00100	**0.00936**	0.32940	0.06480	**0.01222**	2.50740	0.30000	**0.04205**
	C	0.01860	0.00100	**0.00959**	0.32940	0.06480	**0.01251**	2.50740	0.30000	**0.04484**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**-0.00087**	0.32940	**-0.00111**	2.50740	**-0.00116**
sg13g2_and3_1	0.01860	**-0.00089**	0.32940	**-0.00111**	2.50740	**-0.00116**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**0.00087**	0.32940	**0.00111**	2.50740	**0.00120**
sg13g2_and3_1	0.01860	**0.00089**	0.32940	**0.00111**	2.50740	**0.00120**

AND4x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and4_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	0.00237	0.00239	0.00277	0.00273	0.60000
sg13g2_and4_1	0.00238	0.00239	0.00278	0.00273	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_2	562.76700	697.62200	978.26400
sg13g2_and4_1	321.02200	465.11800	884.36100

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	**0.09126**	0.32940	0.12960	**0.33101**	2.50740	0.60000	**1.08806**
	B->X (RR)	0.01860	0.00100	**0.10013**	0.32940	0.12960	**0.32937**	2.50740	0.60000	**1.06886**
	C->X (RR)	0.01860	0.00100	**0.10539**	0.32940	0.12960	**0.32212**	2.50740	0.60000	**1.02644**
	D->X (RR)	0.01860	0.00100	**0.10830**	0.32940	0.12960	**0.31361**	2.50740	0.60000	**0.97221**
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.07271**	0.32940	0.06480	**0.29008**	2.50740	0.30000	**1.01318**
	B->X (RR)	0.01860	0.00100	**0.08170**	0.32940	0.06480	**0.29096**	2.50740	0.30000	**1.00092**
	C->X (RR)	0.01860	0.00100	**0.08696**	0.32940	0.06480	**0.28577**	2.50740	0.30000	**0.96518**
	D->X (RR)	0.01860	0.00100	**0.08983**	0.32940	0.06480	**0.27938**	2.50740	0.30000	**0.91716**

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	**0.05232**	0.32940	0.12960	**0.24817**	2.50740	0.60000	**0.77144**
	B->X (FF)	0.01860	0.00100	**0.05620**	0.32940	0.12960	**0.25723**	2.50740	0.60000	**0.80068**
	C->X (FF)	0.01860	0.00100	**0.05912**	0.32940	0.12960	**0.26550**	2.50740	0.60000	**0.83239**
	D->X (FF)	0.01860	0.00100	**0.06135**	0.32940	0.12960	**0.27270**	2.50740	0.60000	**0.86571**
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.04435**	0.32940	0.06480	**0.21823**	2.50740	0.30000	**0.70399**
	B->X (FF)	0.01860	0.00100	**0.04830**	0.32940	0.06480	**0.22861**	2.50740	0.30000	**0.73616**
	C->X (FF)	0.01860	0.00100	**0.05109**	0.32940	0.06480	**0.23764**	2.50740	0.30000	**0.77148**
	D->X (FF)	0.01860	0.00100	**0.05306**	0.32940	0.06480	**0.24588**	2.50740	0.30000	**0.80817**

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	**0.02160**	0.32940	0.12960	**0.02116**	2.50740	0.60000	**0.05166**
	B	0.01860	0.00100	**0.02422**	0.32940	0.12960	**0.02298**	2.50740	0.60000	**0.05136**
	C	0.01860	0.00100	**0.02586**	0.32940	0.12960	**0.02459**	2.50740	0.60000	**0.05423**
	D	0.01860	0.00100	**0.02568**	0.32940	0.12960	**0.02395**	2.50740	0.60000	**0.05429**
sg13g2_and4_1	A	0.01860	0.00100	**0.01324**	0.32940	0.06480	**0.01531**	2.50740	0.30000	**0.04461**
	B	0.01860	0.00100	**0.01586**	0.32940	0.06480	**0.01705**	2.50740	0.30000	**0.04598**
	C	0.01860	0.00100	**0.01751**	0.32940	0.06480	**0.01823**	2.50740	0.30000	**0.04816**
	D	0.01860	0.00100	**0.01732**	0.32940	0.06480	**0.01779**	2.50740	0.30000	**0.04857**

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	**0.01477**	0.32940	0.12960	**0.01708**	2.50740	0.60000	**0.04819**
	B	0.01860	0.00100	**0.01527**	0.32940	0.12960	**0.01722**	2.50740	0.60000	**0.04741**
	C	0.01860	0.00100	**0.01642**	0.32940	0.12960	**0.01858**	2.50740	0.60000	**0.04812**
	D	0.01860	0.00100	**0.01682**	0.32940	0.12960	**0.01878**	2.50740	0.60000	**0.05203**
sg13g2_and4_1	A	0.01860	0.00100	**0.00849**	0.32940	0.06480	**0.01106**	2.50740	0.30000	**0.04093**
	B	0.01860	0.00100	**0.00894**	0.32940	0.06480	**0.01137**	2.50740	0.30000	**0.04075**
	C	0.01860	0.00100	**0.01002**	0.32940	0.06480	**0.01238**	2.50740	0.30000	**0.04305**
	D	0.01860	0.00100	**0.01032**	0.32940	0.06480	**0.01279**	2.50740	0.30000	**0.04403**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00031**	0.32940	**-0.00031**	2.50740	**-0.00030**
sg13g2_and4_1	0.01860	**-0.00031**	0.32940	**-0.00031**	2.50740	**-0.00030**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00120**	0.32940	**0.00124**	2.50740	**0.00124**
sg13g2_and4_1	0.01860	**0.00121**	0.32940	**0.00124**	2.50740	**0.00124**

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	**-0.00031**	0.32940	**-0.00031**	2.50740	**-0.00030**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**-0.00031**	0.32940	**-0.00031**	2.50740	**-0.00030**

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	**0.00120**	0.32940	**0.00124**	2.50740	**0.00124**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**0.00121**	0.32940	**0.00124**	2.50740	**0.00124**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00048**	0.32940	**-0.00049**	2.50740	**-0.00048**
sg13g2_and4_1	0.01860	**-0.00048**	0.32940	**-0.00049**	2.50740	**-0.00048**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00087**	0.32940	**0.00090**	2.50740	**0.00091**
sg13g2_and4_1	0.01860	**0.00087**	0.32940	**0.00090**	2.50740	**0.00091**

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	**-0.00048**	0.32940	**-0.00049**	2.50740	**-0.00048**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**-0.00048**	0.32940	**-0.00049**	2.50740	**-0.00048**

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	**0.00087**	0.32940	**0.00090**	2.50740	**0.00091**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**0.00087**	0.32940	**0.00090**	2.50740	**0.00091**

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	**0.00226**	0.32940	**0.00226**	2.50740	**0.00229**
sg13g2_and4_1	0.01860	**0.00225**	0.32940	**0.00226**	2.50740	**0.00229**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00003**	0.32940	**0.00000**	2.50740	**-0.00003**
sg13g2_and4_1	0.01860	**0.00004**	0.32940	**0.00000**	2.50740	**-0.00003**

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	**0.00226**	0.32940	**0.00226**	2.50740	**0.00229**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00225**	0.32940	**0.00226**	2.50740	**0.00229**

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	**0.00003**	0.32940	**0.00000**	2.50740	**-0.00003**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00004**	0.32940	**0.00000**	2.50740	**-0.00003**

AO21x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21o_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	0.00314	0.00311	0.00274	0.60000
sg13g2_a21o_1	0.00294	0.00301	0.00260	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_2	524.44200	642.53400	796.59900
sg13g2_a21o_1	405.41700	458.07700	521.36900

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	**0.05773**	0.32940	0.12960	**0.27212**	2.50740	0.60000	**0.91543**
	A2->X (RR)	0.01860	0.00100	**0.06039**	0.32940	0.12960	**0.26294**	2.50740	0.60000	**0.87882**
	B1->X (RR)	0.01860	0.00100	**0.03887**	0.32940	0.12960	**0.23790**	2.50740	0.60000	**0.79726**
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.05403**	0.32940	0.06480	**0.25826**	2.50740	0.30000	**0.91362**
	A2->X (RR)	0.01860	0.00100	**0.05689**	0.32940	0.06480	**0.25080**	2.50740	0.30000	**0.87957**
	B1->X (RR)	0.01860	0.00100	**0.03667**	0.32940	0.06480	**0.22453**	2.50740	0.30000	**0.79379**

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	**0.07852**	0.32940	0.12960	**0.26571**	2.50740	0.60000	**0.85323**
	A2->X (FF)	0.01860	0.00100	**0.08568**	0.32940	0.12960	**0.27816**	2.50740	0.60000	**0.88794**
	B1->X (FF)	0.01860	0.00100	**0.07846**	0.32940	0.12960	**0.29281**	2.50740	0.60000	**0.96558**
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.06231**	0.32940	0.06480	**0.22923**	2.50740	0.30000	**0.76002**
	A2->X (FF)	0.01860	0.00100	**0.06880**	0.32940	0.06480	**0.24121**	2.50740	0.30000	**0.79590**
	B1->X (FF)	0.01860	0.00100	**0.06129**	0.32940	0.06480	**0.25055**	2.50740	0.30000	**0.86187**

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	**0.03887**	0.32940	0.12960	**0.23790**	2.50740	0.60000	**0.79726**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03731**	0.32940	0.12960	**0.22937**	2.50740	0.60000	**0.77212**
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.03667**	0.32940	0.06480	**0.22453**	2.50740	0.30000	**0.79379**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03465**	0.32940	0.06480	**0.21460**	2.50740	0.30000	**0.76411**

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	**0.07846**	0.32940	0.12960	**0.29281**	2.50740	0.60000	**0.96558**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.06989**	0.32940	0.12960	**0.27863**	2.50740	0.60000	**0.93911**
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.06129**	0.32940	0.06480	**0.25055**	2.50740	0.30000	**0.86187**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.05382**	0.32940	0.06480	**0.23572**	2.50740	0.30000	**0.83281**

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	**0.01821**	0.32940	0.12960	**0.02061**	2.50740	0.60000	**0.05767**
	A2	0.01860	0.00100	**0.02083**	0.32940	0.12960	**0.02242**	2.50740	0.60000	**0.05627**
	B1	0.01860	0.00100	**0.01523**	0.32940	0.12960	**0.01853**	2.50740	0.60000	**0.05813**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01148**	0.32940	0.06480	**0.01411**	2.50740	0.30000	**0.04729**
	A2	0.01860	0.00100	**0.01380**	0.32940	0.06480	**0.01584**	2.50740	0.30000	**0.04780**
	B1	0.01860	0.00100	**0.00894**	0.32940	0.06480	**0.01211**	2.50740	0.30000	**0.04856**

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	**0.02056**	0.32940	0.12960	**0.02124**	2.50740	0.60000	**0.05695**
	A2	0.01860	0.00100	**0.02087**	0.32940	0.12960	**0.02136**	2.50740	0.60000	**0.05828**
	B1	0.01860	0.00100	**0.01676**	0.32940	0.12960	**0.01888**	2.50740	0.60000	**0.05787**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01286**	0.32940	0.06480	**0.01463**	2.50740	0.30000	**0.04783**
	A2	0.01860	0.00100	**0.01299**	0.32940	0.06480	**0.01460**	2.50740	0.30000	**0.04804**
	B1	0.01860	0.00100	**0.00910**	0.32940	0.06480	**0.01268**	2.50740	0.30000	**0.04690**

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	**0.01793**	0.32940	0.12960	**0.02141**	2.50740	0.60000	**0.06039**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01523**	0.32940	0.12960	**0.01853**	2.50740	0.60000	**0.05813**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.01123**	0.32940	0.06480	**0.01435**	2.50740	0.30000	**0.05120**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00894**	0.32940	0.06480	**0.01211**	2.50740	0.30000	**0.04856**

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	**0.01735**	0.32940	0.12960	**0.01902**	2.50740	0.60000	**0.05877**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01676**	0.32940	0.12960	**0.01888**	2.50740	0.60000	**0.05787**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00943**	0.32940	0.06480	**0.01263**	2.50740	0.30000	**0.04766**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00910**	0.32940	0.06480	**0.01268**	2.50740	0.30000	**0.04690**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**-0.00004**	0.32940	**-0.00004**	2.50740	**-0.00003**
sg13g2_a21o_1	0.01860	**-0.00013**	0.32940	**-0.00026**	2.50740	**-0.00026**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00004**	0.32940	**0.00004**	2.50740	**0.00003**
sg13g2_a21o_1	0.01860	**0.00026**	0.32940	**0.00026**	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_a21o_2	**(A2 * B1)**	0.01860	**-0.00004**	0.32940	**-0.00004**	2.50740	**-0.00003**
	(!A2 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**-0.00013**	0.32940	**-0.00026**	2.50740	**-0.00026**
	(!A2 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00004**	0.32940	**0.00004**	2.50740	**0.00003**
	(!A2 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	(A2 * B1)	0.01860	**0.00026**	0.32940	**0.00026**	2.50740	**0.00026**
	(!A2 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**-0.00011**	0.32940	**-0.00013**	2.50740	**-0.00013**
sg13g2_a21o_1	0.01860	**-0.00008**	0.32940	**-0.00023**	2.50740	**-0.00022**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00013**	0.32940	**0.00013**	2.50740	**0.00013**
sg13g2_a21o_1	0.01860	**0.00022**	0.32940	**0.00023**	2.50740	**0.00022**

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	**-0.00011**	0.32940	**-0.00013**	2.50740	**-0.00013**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	(A1 * B1)	0.01860	**-0.00008**	0.32940	**-0.00023**	2.50740	**-0.00022**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A1 * B1)	0.01860	**0.00013**	0.32940	**0.00013**	2.50740	**0.00013**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00022**	0.32940	**0.00023**	2.50740	**0.00022**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00073**	0.32940	**0.00078**	2.50740	**0.00078**
sg13g2_a21o_1	0.01860	**0.00069**	0.32940	**0.00072**	2.50740	**0.00072**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00062**	0.32940	**0.00063**	2.50740	**0.00064**
sg13g2_a21o_1	0.01860	**0.00079**	0.32940	**0.00080**	2.50740	**0.00082**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A1 * A2)	0.01860	**0.00073**	0.32940	**0.00078**	2.50740	**0.00078**
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00069**	0.32940	**0.00072**	2.50740	**0.00072**

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	**0.00062**	0.32940	**0.00063**	2.50740	**0.00064**
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00079**	0.32940	**0.00080**	2.50740	**0.00082**

BTLx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_ebufn_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	0.00614	0.01758	2.40000
sg13g2_ebufn_4	0.00314	0.01062	1.20000
sg13g2_ebufn_2	0.00279	0.00655	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	590.45000	2069.25000	3795.96000
sg13g2_ebufn_4	416.01100	1118.47000	1944.93000
sg13g2_ebufn_2	331.86400	683.06600	1042.43000

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	0.02027	**0.04674**	0.32940	0.53768	**0.39700**	2.50740	2.41927	**1.51752**
	TE_B->Z (RR)	0.01860	0.02027	**0.05083**	0.32940	0.53768	**0.12720**	2.50740	2.41927	**0.26506**
	TE_B->Z (FR)	0.01860	0.02027	**0.02563**	0.32940	0.53768	**0.37210**	2.50740	2.41927	**1.86150**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01076	**0.04792**	0.32940	0.26896	**0.39741**	2.50740	1.20976	**1.51259**
	TE_B->Z (RR)	0.01860	0.01076	**0.03901**	0.32940	0.26896	**0.09359**	2.50740	1.20976	**0.18346**
	TE_B->Z (FR)	0.01860	0.01076	**0.02533**	0.32940	0.26896	**0.37050**	2.50740	1.20976	**1.85770**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00598	**0.04173**	0.32940	0.13458	**0.36948**	2.50740	0.60498	**1.45247**
	TE_B->Z (RR)	0.01860	0.00598	**0.03390**	0.32940	0.13458	**0.07807**	2.50740	0.60498	**0.14906**
	TE_B->Z (FR)	0.01860	0.00598	**0.02555**	0.32940	0.13458	**0.36699**	2.50740	0.60498	**1.84371**

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	0.02968	**0.06014**	0.32940	0.54708	**0.33606**	2.50740	2.42868	**1.19198**
	TE_B->Z (RF)	0.01860	0.02968	**0.02549**	0.32940	0.54708	**-0.20756**	2.50740	2.42868	**-1.89388**
	TE_B->Z (FF)	0.01860	0.02968	**0.05847**	0.32940	0.54708	**0.30294**	2.50740	2.42868	**1.01957**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01557	**0.06168**	0.32940	0.27377	**0.33791**	2.50740	1.21457	**1.19455**
	TE_B->Z (RF)	0.01860	0.01557	**0.02076**	0.32940	0.27377	**-0.20666**	2.50740	1.21457	**-1.89311**
	TE_B->Z (FF)	0.01860	0.01557	**0.04425**	0.32940	0.27377	**0.26191**	2.50740	1.21457	**0.92659**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00844	**0.04695**	0.32940	0.13704	**0.30006**	2.50740	0.60744	**1.11242**
	TE_B->Z (RF)	0.01860	0.00844	**0.01507**	0.32940	0.13704	**-0.21874**	2.50740	0.60744	**-1.90508**
	TE_B->Z (FF)	0.01860	0.00844	**0.03798**	0.32940	0.13704	**0.23583**	2.50740	0.60744	**0.86268**

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	0.02027	**0.05337**	0.32940	0.53768	**0.06429**	2.50740	2.41927	**0.07763**
	TE_B	0.01860	0.02027	**0.01049**	0.32940	0.53768	**0.00718**	2.50740	2.41927	**0.00314**
sg13g2_ebufn_4	A	0.01860	0.01076	**0.02672**	0.32940	0.26896	**0.03147**	2.50740	1.20976	**0.03109**
	TE_B	0.01860	0.01076	**0.00529**	0.32940	0.26896	**0.00415**	2.50740	1.20976	**0.00105**
sg13g2_ebufn_2	A	0.01860	0.00598	**0.01394**	0.32940	0.13458	**0.01579**	2.50740	0.60498	**0.01501**
	TE_B	0.01860	0.00598	**0.00277**	0.32940	0.13458	**0.00217**	2.50740	0.60498	**0.00094**

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	0.02968	**0.05721**	0.32940	0.54708	**0.05594**	2.50740	2.42868	**0.05251**
	TE_B	0.01860	0.02968	**0.00404**	0.32940	0.54708	**0.00047**	2.50740	2.42868	**0.00263**
sg13g2_ebufn_4	A	0.01860	0.01557	**0.02870**	0.32940	0.27377	**0.02803**	2.50740	1.21457	**0.02822**
	TE_B	0.01860	0.01557	**0.00218**	0.32940	0.27377	**0.00097**	2.50740	1.21457	**0.00028**
sg13g2_ebufn_2	A	0.01860	0.00844	**0.01372**	0.32940	0.13704	**0.01365**	2.50740	0.60744	**0.01644**
	TE_B	0.01860	0.00844	**0.00121**	0.32940	0.13704	**0.00067**	2.50740	0.60744	**0.00095**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01599**	0.32940	**0.02438**	2.50740	**0.11797**
sg13g2_ebufn_4	0.01860	**0.00861**	0.32940	**0.01268**	2.50740	**0.05928**
sg13g2_ebufn_2	0.01860	**0.00506**	0.32940	**0.00907**	2.50740	**0.05032**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01344**	0.32940	**0.02267**	2.50740	**0.11554**
sg13g2_ebufn_4	0.01860	**0.00725**	0.32940	**0.01171**	2.50740	**0.05807**
sg13g2_ebufn_2	0.01860	**0.00457**	0.32940	**0.00889**	2.50740	**0.04971**

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	**-0.00493**	0.32940	**-0.00350**	2.50740	**0.03947**
sg13g2_ebufn_4	0.01860	**-0.00100**	0.32940	**0.00179**	2.50740	**0.04737**
sg13g2_ebufn_2	0.01860	**0.00031**	0.32940	**0.00351**	2.50740	**0.04419**

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	**0.08056**	0.32940	**0.08566**	2.50740	**0.12911**
sg13g2_ebufn_4	0.01860	**0.04156**	0.32940	**0.04640**	2.50740	**0.09207**
sg13g2_ebufn_2	0.01860	**0.02183**	0.32940	**0.02630**	2.50740	**0.06676**

BUx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.01816	4.80000
sg13g2_buf_8	0.00911	2.40000
sg13g2_buf_4	0.00393	1.20000
sg13g2_buf_2	0.00277	0.60000
sg13g2_buf_1	0.00247	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	2952.72000	3691.96000	4431.20000
sg13g2_buf_8	1476.38000	1845.98000	2215.59000
sg13g2_buf_4	678.32300	883.10600	1087.89000
sg13g2_buf_2	397.47500	481.44300	565.41000
sg13g2_buf_1	270.78600	290.47200	310.15800

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	**0.03915**	0.32940	1.03680	**0.24401**	2.50740	4.80000	**0.87307**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.03875**	0.32940	0.51840	**0.24264**	2.50740	2.40000	**0.86999**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.04902**	0.32940	0.25920	**0.27223**	2.50740	1.20000	**0.99077**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.03872**	0.32940	0.12960	**0.23937**	2.50740	0.60000	**0.86624**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.03465**	0.32940	0.06480	**0.21996**	2.50740	0.30000	**0.82317**

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	**0.04438**	0.32940	1.03680	**0.23483**	2.50740	4.80000	**0.79643**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.04388**	0.32940	0.51840	**0.23398**	2.50740	2.40000	**0.79600**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.04333**	0.32940	0.25920	**0.22782**	2.50740	1.20000	**0.72521**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.04242**	0.32940	0.12960	**0.22460**	2.50740	0.60000	**0.76621**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.03727**	0.32940	0.06480	**0.20323**	2.50740	0.30000	**0.72642**

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	**0.11925**	0.32940	1.03680	**0.14556**	2.50740	4.80000	**0.42662**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.05876**	0.32940	0.51840	**0.07109**	2.50740	2.40000	**0.20855**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02922**	0.32940	0.25920	**0.03378**	2.50740	1.20000	**0.09340**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01525**	0.32940	0.12960	**0.01901**	2.50740	0.60000	**0.05814**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00885**	0.32940	0.06480	**0.01219**	2.50740	0.30000	**0.04596**

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	**0.11827**	0.32940	1.03680	**0.14502**	2.50740	4.80000	**0.42549**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.05824**	0.32940	0.51840	**0.07237**	2.50740	2.40000	**0.20728**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02923**	0.32940	0.25920	**0.03484**	2.50740	1.20000	**0.09349**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01510**	0.32940	0.12960	**0.01941**	2.50740	0.60000	**0.05971**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00878**	0.32940	0.06480	**0.01229**	2.50740	0.30000	**0.04723**

DECAPx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Footprint

Cell Name	Area
sg13g2_decap_4	7.25760
sg13g2_decap_8	12.70080

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_decap_4	1670.68000	1670.68000	1670.68000
sg13g2_decap_8	3341.41000	3341.41000	3341.41000

DFFRRx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00170	0.00621	0.00302	0.60000	0.60000
sg13g2_dfrbp_1	0.00182	0.00676	0.00293	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	1666.34000	1911.44000	2129.36000
sg13g2_dfrbp_1	1278.41000	1513.72000	1738.44000

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	**0.16101**	0.32940	0.12960	**0.34918**	2.50740	0.60000	**0.95290**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.13072**	0.32940	0.06480	**0.32172**	2.50740	0.30000	**0.89929**

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	**0.13937**	0.32940	0.12960	**0.30921**	2.50740	0.60000	**0.79492**
	RESET_B->Q (FF)	0.01860	0.00100	**0.18899**	0.32940	0.12960	**0.39690**	2.50740	0.60000	**1.04541**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.12391**	0.32940	0.06480	**0.29319**	2.50740	0.30000	**0.76137**
	RESET_B->Q (FF)	0.01860	0.00100	**0.16619**	0.32940	0.06480	**0.37113**	2.50740	0.30000	**1.00965**

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	**0.09376**	0.32940	0.12960	**0.30783**	2.50740	0.60000	**0.88282**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.14411**	0.32940	0.12960	**0.39434**	2.50740	0.60000	**1.13189**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.09549**	0.32940	0.06480	**0.30267**	2.50740	0.30000	**0.86062**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.13793**	0.32940	0.06480	**0.37966**	2.50740	0.30000	**1.10838**

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	**0.10508**	0.32940	0.12960	**0.31970**	2.50740	0.60000	**0.83702**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.09874**	0.32940	0.06480	**0.29842**	2.50740	0.30000	**0.79425**

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	**-0.03179**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.17414**
	setup	**CLK (R)**	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.21841**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03423**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.19480**
	setup	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.24498**

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	**-0.01956**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.20777**	2.50740	2.50740	**0.30401**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.21251**
	setup	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.21047**	2.50740	2.50740	**0.31286**

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	**0.08314**	1.26300	1.26300	**0.21317**	2.50740	2.50740	**0.32172**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.19968**	2.50740	2.50740	**-0.31286**
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.22127**	2.50740	2.50740	**0.34828**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06113**	1.26300	1.26300	**-0.20238**	2.50740	2.50740	**-0.32467**

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	**0.06382**	0.32940	0.12960	**0.21053**	2.50740	0.60000	**0.80212**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.04910**	0.32940	0.06480	**0.12512**	2.50740	0.30000	**0.43984**

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	**0.06215**	0.32940	0.12960	**0.21110**	2.50740	0.60000	**0.80158**
	RESET_B	0.01860	0.00100	**0.04792**	0.32940	0.12960	**0.19414**	2.50740	0.60000	**0.74911**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.04767**	0.32940	0.06480	**0.12419**	2.50740	0.30000	**0.44001**
	RESET_B	0.01860	0.00100	**0.03278**	0.32940	0.06480	**0.10698**	2.50740	0.30000	**0.39574**

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	**0.06219**	0.32940	0.12960	**0.21241**	2.50740	0.60000	**0.79533**
	RESET_B	0.01860	0.00100	**0.04792**	0.32940	0.12960	**0.19537**	2.50740	0.60000	**0.74745**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.04768**	0.32940	0.06480	**0.12454**	2.50740	0.30000	**0.43718**
	RESET_B	0.01860	0.00100	**0.03275**	0.32940	0.06480	**0.10755**	2.50740	0.30000	**0.39485**

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	**0.06387**	0.32940	0.12960	**0.20975**	2.50740	0.60000	**0.79989**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.04912**	0.32940	0.06480	**0.12469**	2.50740	0.30000	**0.44112**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00224**	0.32940	**0.00400**	2.50740	**0.02219**
sg13g2_dfrbp_1	0.01860	**0.00253**	0.32940	**0.00423**	2.50740	**0.02235**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00185**	0.32940	**0.00374**	2.50740	**0.02208**
sg13g2_dfrbp_1	0.01860	**0.00210**	0.32940	**0.00394**	2.50740	**0.02222**

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	**0.00224**	0.32940	**0.00400**	2.50740	**0.02219**
	(!CLK * RESET_B)	0.01860	**0.01867**	0.32940	**0.02057**	2.50740	**0.04185**
	(!CLK * !RESET_B)	0.01860	**-0.00003**	0.32940	**-0.00004**	2.50740	**-0.00003**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00253**	0.32940	**0.00423**	2.50740	**0.02235**
	(!CLK * RESET_B)	0.01860	**0.01610**	0.32940	**0.01799**	2.50740	**0.03927**
	(!CLK * !RESET_B)	0.01860	**0.00016**	0.32940	**0.00015**	2.50740	**0.00016**

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	**0.00185**	0.32940	**0.00374**	2.50740	**0.02208**
	(!CLK * RESET_B)	0.01860	**0.01473**	0.32940	**0.01669**	2.50740	**0.03876**
	(!CLK * !RESET_B)	0.01860	**0.00027**	0.32940	**0.00030**	2.50740	**0.00030**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00210**	0.32940	**0.00394**	2.50740	**0.02222**
	(!CLK * RESET_B)	0.01860	**0.01383**	0.32940	**0.01579**	2.50740	**0.03759**
	(!CLK * !RESET_B)	0.01860	**0.00013**	0.32940	**0.00016**	2.50740	**0.00016**

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	**0.00601**	0.32940	**0.00709**	2.50740	**0.02461**
sg13g2_dfrbp_1	0.01860	**0.00666**	0.32940	**0.00768**	2.50740	**0.02511**

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	**0.01361**	0.32940	**0.01511**	2.50740	**0.04299**
sg13g2_dfrbp_1	0.01860	**0.01216**	0.32940	**0.01367**	2.50740	**0.04151**

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	**0.00601**	0.32940	**0.00709**	2.50740	**0.02461**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00214**	0.32940	**0.00208**	2.50740	**0.00208**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02267**	0.32940	**0.02413**	2.50740	**0.05120**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00223**	0.32940	**0.00217**	2.50740	**0.00217**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00666**	0.32940	**0.00768**	2.50740	**0.02511**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00278**	0.32940	**0.00272**	2.50740	**0.00272**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02058**	0.32940	**0.02208**	2.50740	**0.04916**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00289**	0.32940	**0.00281**	2.50740	**0.00281**

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	**0.06094**	0.32940	**0.06519**	2.50740	**0.11664**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00214**	0.32940	**-0.00208**	2.50740	**-0.00208**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01361**	0.32940	**0.01511**	2.50740	**0.04299**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00223**	0.32940	**-0.00217**	2.50740	**-0.00217**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.04384**	0.32940	**0.04795**	2.50740	**0.09840**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00278**	0.32940	**-0.00272**	2.50740	**-0.00272**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01216**	0.32940	**0.01367**	2.50740	**0.04151**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00289**	0.32940	**-0.00281**	2.50740	**-0.00281**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01690**	0.32940	**0.02119**	2.50740	**0.07103**
sg13g2_dfrbp_1	0.01860	**0.01711**	0.32940	**0.02093**	2.50740	**0.06719**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.03256**	0.32940	**0.03719**	2.50740	**0.08852**
sg13g2_dfrbp_1	0.01860	**0.03032**	0.32940	**0.03481**	2.50740	**0.08277**

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	**0.01690**	0.32940	**0.02119**	2.50740	**0.07103**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01779**	0.32940	**0.02208**	2.50740	**0.07183**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01665**	0.32940	**0.02094**	2.50740	**0.07085**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01782**	0.32940	**0.02210**	2.50740	**0.07183**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01756**	0.32940	**0.02143**	2.50740	**0.06763**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01710**	0.32940	**0.02092**	2.50740	**0.06721**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01681**	0.32940	**0.02064**	2.50740	**0.06690**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01711**	0.32940	**0.02093**	2.50740	**0.06719**

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	**0.03256**	0.32940	**0.03719**	2.50740	**0.08852**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03267**	0.32940	**0.03729**	2.50740	**0.08864**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01672**	0.32940	**0.02129**	2.50740	**0.07072**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00776**	0.32940	**0.07989**	2.50740	**0.12915**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01672**	0.32940	**0.02130**	2.50740	**0.07076**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01671**	0.32940	**0.02122**	2.50740	**0.07070**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.03039**	0.32940	**0.03484**	2.50740	**0.08286**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03032**	0.32940	**0.03481**	2.50740	**0.08277**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01719**	0.32940	**0.02140**	2.50740	**0.06761**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00732**	0.32940	**0.06536**	2.50740	**0.11129**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01719**	0.32940	**0.02143**	2.50740	**0.06763**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01718**	0.32940	**0.02135**	2.50740	**0.06759**

DLHQ

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhq_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	D	GATE	Q
sg13g2_dlhq_1	0.00243	0.00249	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	928.96700	1021.49000	1136.46000

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	**0.11957**	0.32940	0.06480	**0.30249**	2.50740	0.30000	**0.86851**
	GATE->Q (RR)	0.01860	0.00100	**0.10156**	0.32940	0.06480	**0.28446**	2.50740	0.30000	**0.80611**

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	**0.10558**	0.32940	0.06480	**0.26837**	2.50740	0.30000	**0.74783**
	GATE->Q (RF)	0.01860	0.00100	**0.10790**	0.32940	0.06480	**0.26663**	2.50740	0.30000	**0.68189**

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	**-0.06358**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.10626**
	setup	GATE (F)	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.15651**	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_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.02445**	1.26300	1.26300	**0.02159**	2.50740	2.50740	**0.06198**
	setup	GATE (F)	0.01860	0.01860	**0.03179**	1.26300	1.26300	**-0.01349**	2.50740	2.50740	**-0.05608**

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	**0.02352**	0.32940	0.06480	**0.02382**	2.50740	0.30000	**0.02557**
	GATE	0.01860	0.00100	**0.02016**	0.32940	0.06480	**0.02072**	2.50740	0.30000	**0.02524**

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	**0.02419**	0.32940	0.06480	**0.02476**	2.50740	0.30000	**0.02832**
	GATE	0.01860	0.00100	**0.02186**	0.32940	0.06480	**0.02298**	2.50740	0.30000	**0.02437**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00534**	0.32940	**0.00847**	2.50740	**0.04249**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00588**	0.32940	**0.00920**	2.50740	**0.04284**

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	**0.00545**	0.32940	**0.00847**	2.50740	**0.04253**
	(!GATE * !Q)	0.01860	**0.00534**	0.32940	**0.00847**	2.50740	**0.04249**

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	**0.00558**	0.32940	**0.00897**	2.50740	**0.04269**
	(!GATE * !Q)	0.01860	**0.00588**	0.32940	**0.00920**	2.50740	**0.04284**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.01242**	0.32940	**0.01617**	2.50740	**0.05872**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00765**	0.32940	**0.02799**	2.50740	**0.07096**

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	**0.01242**	0.32940	**0.01617**	2.50740	**0.05872**

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	**0.00765**	0.32940	**0.02799**	2.50740	**0.07096**

DLHRQ

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00229	0.00312	0.00240	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	1038.48000	1159.01000	1259.73000

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	**0.12602**	0.32940	0.06480	**0.31178**	2.50740	0.30000	**0.87445**
	GATE->Q (RR)	0.01860	0.00100	**0.11299**	0.32940	0.06480	**0.30046**	2.50740	0.30000	**0.82137**

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	**0.11128**	0.32940	0.06480	**0.27606**	2.50740	0.30000	**0.76174**
	GATE->Q (RF)	0.01860	0.00100	**0.11500**	0.32940	0.06480	**0.27781**	2.50740	0.30000	**0.70249**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04573**	0.32940	0.06480	**0.22860**	2.50740	0.30000	**0.78825**

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	**-0.05624**	1.26300	1.26300	**-0.09714**	2.50740	2.50740	**-0.08855**
	setup	GATE (F)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.16529**

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	**-0.02690**	1.26300	1.26300	**0.02159**	2.50740	2.50740	**0.06198**
	setup	GATE (F)	0.01860	0.01860	**0.03668**	1.26300	1.26300	**-0.01349**	2.50740	2.50740	**-0.05313**

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	**-0.00978**	1.26300	1.26300	**-0.10794**	2.50740	2.50740	**-0.17414**
	removal	GATE (F)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**0.12412**	2.50740	2.50740	**0.19480**

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	**0.00266**	0.32940	0.06480	**0.00189**	2.50740	0.30000	**0.00282**
	GATE	0.01860	0.00100	**0.02046**	0.32940	0.06480	**0.02078**	2.50740	0.30000	**0.02489**

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	**0.00829**	0.32940	0.06480	**-0.00189**	2.50740	0.30000	**-0.00282**
	GATE	0.01860	0.00100	**0.02039**	0.32940	0.06480	**0.02143**	2.50740	0.30000	**0.02273**
	RESET_B	0.01860	0.00100	**0.01183**	0.32940	0.06480	**0.01589**	2.50740	0.30000	**0.05624**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.02629**	0.32940	**0.03032**	2.50740	**0.06514**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01978**	0.32940	**0.04195**	2.50740	**0.07711**

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	**0.00425**	0.32940	**0.00737**	2.50740	**0.04139**
	!RESET_B	0.01860	**0.02629**	0.32940	**0.03032**	2.50740	**0.06514**

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	**0.00519**	0.32940	**0.00860**	2.50740	**0.04226**
	!RESET_B	0.01860	**0.01978**	0.32940	**0.04195**	2.50740	**0.07711**

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	**-0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

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	**-0.00007**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00007**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01299**	0.32940	**0.01663**	2.50740	**0.05899**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00754**	0.32940	**0.02824**	2.50740	**0.07095**

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	**0.01772**	0.32940	**0.02146**	2.50740	**0.06686**
	(!D * !RESET_B * !Q)	0.01860	**0.01299**	0.32940	**0.01663**	2.50740	**0.05899**

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	**0.01897**	0.32940	**0.02352**	2.50740	**0.06904**
	(!D * RESET_B * !Q)	0.01860	**0.00754**	0.32940	**0.02824**	2.50740	**0.07095**
	(!D * !RESET_B * !Q)	0.01860	**0.00761**	0.32940	**0.02831**	2.50740	**0.07101**

DLHR

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00223	0.00329	0.00245	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	1322.79000	1454.49000	1537.40000

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	**0.13620**	0.32940	0.06480	**0.32668**	2.50740	0.30000	**0.88866**
	GATE->Q (RR)	0.01860	0.00100	**0.12364**	0.32940	0.06480	**0.31619**	2.50740	0.30000	**0.83868**

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	**0.11542**	0.32940	0.06480	**0.28231**	2.50740	0.30000	**0.76366**
	GATE->Q (RF)	0.01860	0.00100	**0.11932**	0.32940	0.06480	**0.28470**	2.50740	0.30000	**0.70605**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04963**	0.32940	0.06480	**0.24235**	2.50740	0.30000	**0.80353**

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	**0.14134**	0.32940	0.06480	**0.32274**	2.50740	0.30000	**0.89408**
	GATE->Q_N (RR)	0.01860	0.00100	**0.14532**	0.32940	0.06480	**0.32440**	2.50740	0.30000	**0.83678**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07561**	0.32940	0.06480	**0.27541**	2.50740	0.30000	**0.87663**

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	**0.16487**	0.32940	0.06480	**0.32066**	2.50740	0.30000	**0.79190**
	GATE->Q_N (RF)	0.01860	0.00100	**0.15213**	0.32940	0.06480	**0.31000**	2.50740	0.30000	**0.74215**

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	**-0.06113**	1.26300	1.26300	**-0.10254**	2.50740	2.50740	**-0.09150**
	setup	GATE (F)	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.14571**	2.50740	2.50740	**0.16824**

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	**-0.02934**	1.26300	1.26300	**0.02159**	2.50740	2.50740	**0.06198**
	setup	GATE (F)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**-0.01349**	2.50740	2.50740	**-0.05313**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**-0.00245**	1.26300	1.26300	**-0.07016**	2.50740	2.50740	**-0.11806**
	removal	GATE (F)	0.01860	0.01860	**0.01467**	1.26300	1.26300	**0.08905**	2.50740	2.50740	**0.14167**

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	**0.00790**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.00855**
	GATE	0.01860	0.00100	**0.01664**	0.32940	0.06480	**0.01708**	2.50740	0.30000	**0.01947**

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	**0.01043**	0.32940	0.06480	**0.00135**	2.50740	0.30000	**0.00285**
	GATE	0.01860	0.00100	**0.01657**	0.32940	0.06480	**0.01700**	2.50740	0.30000	**0.01904**
	RESET_B	0.01860	0.00100	**0.01212**	0.32940	0.06480	**0.01436**	2.50740	0.30000	**0.03864**

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	**0.01047**	0.32940	0.06480	**0.00184**	2.50740	0.30000	**0.00179**
	GATE	0.01860	0.00100	**0.02285**	0.32940	0.06480	**0.02542**	2.50740	0.30000	**0.04759**
	RESET_B	0.01860	0.00100	**0.01215**	0.32940	0.06480	**0.01433**	2.50740	0.30000	**0.03720**

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	**0.00790**	0.32940	0.06480	**0.00765**	2.50740	0.30000	**0.00846**
	GATE	0.01860	0.00100	**0.01663**	0.32940	0.06480	**0.01676**	2.50740	0.30000	**0.01943**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.02571**	0.32940	**0.02979**	2.50740	**0.06474**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01970**	0.32940	**0.04164**	2.50740	**0.07692**

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	**0.00463**	0.32940	**0.00781**	2.50740	**0.04195**
	!RESET_B	0.01860	**0.02571**	0.32940	**0.02979**	2.50740	**0.06474**

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	**0.00546**	0.32940	**0.00891**	2.50740	**0.04272**
	!RESET_B	0.01860	**0.01970**	0.32940	**0.04164**	2.50740	**0.07692**

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	**-0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

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	**-0.00020**	0.32940	**-0.00010**	2.50740	**-0.00005**
	(!D * !GATE * !Q)	0.01860	**-0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00020**	0.32940	**0.00010**	2.50740	**0.00005**
	(!D * !GATE * !Q)	0.01860	**0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01254**	0.32940	**0.01629**	2.50740	**0.05875**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00783**	0.32940	**0.02791**	2.50740	**0.07080**

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	**0.01725**	0.32940	**0.02102**	2.50740	**0.06653**
	(!D * !RESET_B * !Q)	0.01860	**0.01254**	0.32940	**0.01629**	2.50740	**0.05875**

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	**0.01942**	0.32940	**0.02398**	2.50740	**0.06963**
	(!D * RESET_B * !Q)	0.01860	**0.00783**	0.32940	**0.02791**	2.50740	**0.07080**
	(!D * !RESET_B * !Q)	0.01860	**0.00790**	0.32940	**0.02798**	2.50740	**0.07088**

DLLRQ

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00220	0.00314	0.00236	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	1029.36000	1158.03000	1266.82000

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	**0.12522**	0.32940	0.06480	**0.31073**	2.50740	0.30000	**0.87250**
	GATE_N->Q (FR)	0.01860	0.00100	**0.14021**	0.32940	0.06480	**0.34144**	2.50740	0.30000	**0.97769**
	RESET_B->Q (RR)	0.01860	0.00100	**0.05657**	0.32940	0.06480	**0.24308**	2.50740	0.30000	**0.85921**

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	**0.11058**	0.32940	0.06480	**0.27402**	2.50740	0.30000	**0.75781**
	GATE_N->Q (FF)	0.01860	0.00100	**0.10602**	0.32940	0.06480	**0.28787**	2.50740	0.30000	**0.85108**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04609**	0.32940	0.06480	**0.22819**	2.50740	0.30000	**0.78721**

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	**-0.04890**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.09740**
	setup	GATE_N (R)	0.01860	0.01860	**0.05868**	1.26300	1.26300	**0.07555**	2.50740	2.50740	**0.10626**

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	**-0.05624**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.25383**
	setup	GATE_N (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.22396**	2.50740	2.50740	**0.33057**

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	**-0.01956**	1.26300	1.26300	**-0.04587**	2.50740	2.50740	**-0.03247**
	removal	GATE_N (R)	0.01860	0.01860	**0.03179**	1.26300	1.26300	**0.05936**	2.50740	2.50740	**0.04427**

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	**0.01051**	0.32940	0.06480	**0.01117**	2.50740	0.30000	**0.01313**
	GATE_N	0.01860	0.00100	**0.02678**	0.32940	0.06480	**0.01080**	2.50740	0.30000	**0.01185**
	RESET_B	0.01860	0.00100	**0.01559**	0.32940	0.06480	**0.01780**	2.50740	0.30000	**0.05659**

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	**0.02182**	0.32940	0.06480	**0.00047**	2.50740	0.30000	**0.00191**
	GATE_N	0.01860	0.00100	**0.02485**	0.32940	0.06480	**0.00926**	2.50740	0.30000	**0.01290**
	RESET_B	0.01860	0.00100	**0.01208**	0.32940	0.06480	**0.01607**	2.50740	0.30000	**0.05737**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01826**	0.32940	**0.02095**	2.50740	**0.05503**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00640**	0.32940	**0.03161**	2.50740	**0.06687**

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	**0.00407**	0.32940	**0.00722**	2.50740	**0.04135**
	!RESET_B	0.01860	**0.01826**	0.32940	**0.02095**	2.50740	**0.05503**

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	**0.00523**	0.32940	**0.00867**	2.50740	**0.04242**
	!RESET_B	0.01860	**0.00640**	0.32940	**0.03161**	2.50740	**0.06687**

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

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	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

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	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**-0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00001**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.01183**	0.32940	**0.01550**	2.50740	**0.05798**

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	**0.00772**	0.32940	**0.02825**	2.50740	**0.07125**

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	**0.02031**	0.32940	**0.02389**	2.50740	**0.06598**
	(!D * !RESET_B * !Q)	0.01860	**0.01183**	0.32940	**0.01550**	2.50740	**0.05798**

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	**0.01930**	0.32940	**0.02351**	2.50740	**0.06597**
	(!D * RESET_B * !Q)	0.01860	**0.00772**	0.32940	**0.02825**	2.50740	**0.07125**
	(!D * !RESET_B * !Q)	0.01860	**0.00779**	0.32940	**0.02832**	2.50740	**0.07132**

DLLR

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00230	0.00325	0.00249	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	1313.46000	1477.59000	1561.07000

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	**0.13729**	0.32940	0.06480	**0.32720**	2.50740	0.30000	**0.88835**
	GATE_N->Q (FR)	0.01860	0.00100	**0.15215**	0.32940	0.06480	**0.35859**	2.50740	0.30000	**0.99593**

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	**0.11670**	0.32940	0.06480	**0.28323**	2.50740	0.30000	**0.76520**
	GATE_N->Q (FF)	0.01860	0.00100	**0.11281**	0.32940	0.06480	**0.29894**	2.50740	0.30000	**0.86376**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04951**	0.32940	0.06480	**0.24520**	2.50740	0.30000	**0.76932**

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	**0.14247**	0.32940	0.06480	**0.32301**	2.50740	0.30000	**0.89467**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.13867**	0.32940	0.06480	**0.33887**	2.50740	0.30000	**0.99322**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07589**	0.32940	0.06480	**0.27766**	2.50740	0.30000	**0.88220**

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	**0.16573**	0.32940	0.06480	**0.32116**	2.50740	0.30000	**0.79180**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.18047**	0.32940	0.06480	**0.35276**	2.50740	0.30000	**0.89956**

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	**-0.05624**	1.26300	1.26300	**-0.07016**	2.50740	2.50740	**-0.10330**
	setup	GATE_N (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.08095**	2.50740	2.50740	**0.11216**

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	**-0.05868**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.25383**
	setup	GATE_N (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.33352**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	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	**-0.01223**	1.26300	1.26300	**-0.01349**	2.50740	2.50740	**0.02361**
	removal	GATE_N (R)	0.01860	0.01860	**0.02690**	1.26300	1.26300	**0.02698**	2.50740	2.50740	**-0.00885**

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	**0.01540**	0.32940	0.06480	**0.08796**	2.50740	0.30000	**0.35397**
	GATE_N	0.01860	0.00100	**0.03559**	0.32940	0.06480	**0.10811**	2.50740	0.30000	**0.37615**

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	**0.02165**	0.32940	0.06480	**0.07165**	2.50740	0.30000	**0.33789**
	GATE_N	0.01860	0.00100	**0.03292**	0.32940	0.06480	**0.10544**	2.50740	0.30000	**0.37667**
	RESET_B	0.01860	0.00100	**0.03746**	0.32940	0.06480	**0.11280**	2.50740	0.30000	**0.41303**

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	**0.02174**	0.32940	0.06480	**0.07237**	2.50740	0.30000	**0.33716**
	GATE_N	0.01860	0.00100	**0.04623**	0.32940	0.06480	**0.12344**	2.50740	0.30000	**0.43956**
	RESET_B	0.01860	0.00100	**0.03750**	0.32940	0.06480	**0.11328**	2.50740	0.30000	**0.41352**

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	**0.01541**	0.32940	0.06480	**0.08755**	2.50740	0.30000	**0.35583**
	GATE_N	0.01860	0.00100	**0.03559**	0.32940	0.06480	**0.10771**	2.50740	0.30000	**0.37394**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.02792**	0.32940	**0.03107**	2.50740	**0.06589**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01988**	0.32940	**0.04537**	2.50740	**0.08053**

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	**0.00472**	0.32940	**0.00789**	2.50740	**0.04200**
	!RESET_B	0.01860	**0.02792**	0.32940	**0.03107**	2.50740	**0.06589**

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	**0.00478**	0.32940	**0.00823**	2.50740	**0.04202**
	!RESET_B	0.01860	**0.01988**	0.32940	**0.04537**	2.50740	**0.08053**

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	**-0.00018**	0.32940	**-0.00008**	2.50740	**-0.00003**

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	**0.00018**	0.32940	**0.00008**	2.50740	**0.00003**

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	**0.00010**	0.32940	**0.00003**	2.50740	**0.00003**
	(!D * GATE_N * !Q)	0.01860	**-0.00018**	0.32940	**-0.00008**	2.50740	**-0.00003**

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	**0.00018**	0.32940	**0.00007**	2.50740	**0.00003**
	(!D * GATE_N * !Q)	0.01860	**0.00018**	0.32940	**0.00008**	2.50740	**0.00003**

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	**0.00451**	0.32940	**0.02782**	2.50740	**0.07017**

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	**0.01328**	0.32940	**0.01759**	2.50740	**0.06047**

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	**0.02044**	0.32940	**0.02410**	2.50740	**0.06605**
	(!D * RESET_B * !Q)	0.01860	**0.00451**	0.32940	**0.02782**	2.50740	**0.07017**
	(!D * !RESET_B * !Q)	0.01860	**0.00467**	0.32940	**0.02797**	2.50740	**0.07032**

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	**0.01961**	0.32940	**0.02388**	2.50740	**0.06623**
	(!D * !RESET_B * !Q)	0.01860	**0.01328**	0.32940	**0.01759**	2.50740	**0.06047**

DLY1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00157	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	435.56600	473.12600	510.68600

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	**0.07861**	0.32940	0.06480	**0.25714**	2.50740	0.30000	**0.74481**

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	**0.09150**	0.32940	0.06480	**0.27703**	2.50740	0.30000	**0.87468**

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	**0.01974**	0.32940	0.06480	**0.02194**	2.50740	0.30000	**0.04636**

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	**0.01878**	0.32940	0.06480	**0.02129**	2.50740	0.30000	**0.04429**

DLY2

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00157	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	515.76800	553.32800	590.88800

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	**0.11814**	0.32940	0.06480	**0.30803**	2.50740	0.30000	**0.83013**

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	**0.13312**	0.32940	0.06480	**0.33620**	2.50740	0.30000	**0.95891**

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	**0.02366**	0.32940	0.06480	**0.02545**	2.50740	0.30000	**0.04664**

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	**0.02294**	0.32940	0.06480	**0.02487**	2.50740	0.30000	**0.04830**

DLY4

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd3_1	0.00158	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	1214.89000	1252.42000	1289.95000

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	**0.25568**	0.32940	0.06480	**0.47128**	2.50740	0.30000	**1.06541**

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	**0.26516**	0.32940	0.06480	**0.50112**	2.50740	0.30000	**1.19100**

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	**0.03466**	0.32940	0.06480	**0.03528**	2.50740	0.30000	**0.05559**

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	**0.03432**	0.32940	0.06480	**0.03491**	2.50740	0.30000	**0.05552**

EINVINx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_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	0.00796	0.00971	1.20000
sg13g2_einvn_2	0.00405	0.00518	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	1259.66000	1555.35000	1851.03000
sg13g2_einvn_2	633.83500	781.67600	929.51600

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	0.01087	**0.01915**	0.32940	0.26907	**0.39467**	2.50740	1.20987	**2.14300**
	TE_B->Z (RR)	0.01860	0.01087	**0.03770**	0.32940	0.26907	**0.09300**	2.50740	1.20987	**0.18186**
	TE_B->Z (FR)	0.01860	0.01087	**0.02364**	0.32940	0.26907	**0.36688**	2.50740	1.20987	**1.84737**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00602	**0.02021**	0.32940	0.13462	**0.39448**	2.50740	0.60503	**2.14073**
	TE_B->Z (RR)	0.01860	0.00602	**0.03651**	0.32940	0.13462	**0.09004**	2.50740	0.60503	**0.17810**
	TE_B->Z (FR)	0.01860	0.00602	**0.02459**	0.32940	0.13462	**0.36679**	2.50740	0.60503	**1.84952**

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	0.01560	**0.01671**	0.32940	0.27380	**0.31991**	2.50740	1.21460	**1.76220**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00846	**0.01777**	0.32940	0.13706	**0.32007**	2.50740	0.60746	**1.76110**

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	0.01087	**0.01550**	0.32940	0.26907	**0.02031**	2.50740	1.20987	**0.06718**
	TE_B	0.01860	0.01087	**0.03433**	0.32940	0.26907	**0.02332**	2.50740	1.20987	**0.01948**
sg13g2_einvn_2	A	0.01860	0.00602	**0.00778**	0.32940	0.13462	**0.01004**	2.50740	0.60503	**0.03284**
	TE_B	0.01860	0.00602	**0.01693**	0.32940	0.13462	**0.01158**	2.50740	0.60503	**0.00995**

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	0.01560	**0.01476**	0.32940	0.27380	**0.01989**	2.50740	1.21460	**0.05846**
sg13g2_einvn_2	A	0.01860	0.00846	**0.00759**	0.32940	0.13706	**0.01012**	2.50740	0.60746	**0.02941**

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	**-0.01273**	0.32940	**-0.01137**	2.50740	**0.03435**
sg13g2_einvn_2	0.01860	**-0.00657**	0.32940	**-0.00504**	2.50740	**0.01973**

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	**0.01273**	0.32940	**0.02712**	2.50740	**0.07404**
sg13g2_einvn_2	0.01860	**0.00657**	0.32940	**0.01382**	2.50740	**0.03905**

GCLK

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00249	0.00525	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	1095.52000	1124.37000	1180.03000

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	**0.04986**	0.32940	0.06480	**0.23145**	2.50740	0.30000	**0.83258**

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	**0.04287**	0.32940	0.06480	**0.22031**	2.50740	0.30000	**0.77142**

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	**-0.02547**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.23050**
	setup	CLK (R)	0.01860	0.01860	**0.04124**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.35659**

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	**-0.01093**	1.26300	1.26300	**-0.01889**	2.50740	2.50740	**-0.02992**
	setup	CLK (R)	0.01860	0.01860	**0.02884**	1.26300	1.26300	**0.05397**	2.50740	2.50740	**0.07898**

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	**0.01475**	0.32940	0.06480	**0.01660**	2.50740	0.30000	**0.04974**

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	**0.00925**	0.32940	0.06480	**0.01301**	2.50740	0.30000	**0.04726**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.02873**	0.32940	**0.03369**	2.50740	**0.06902**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.01554**	0.32940	**0.04791**	2.50740	**0.08340**

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	**0.02873**	0.32940	**0.03369**	2.50740	**0.06902**

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	**0.01554**	0.32940	**0.04791**	2.50740	**0.08340**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.01005**	0.32940	**0.01378**	2.50740	**0.05625**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.01254**	0.32940	**0.01671**	2.50740	**0.05952**

INx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.04804	4.80000
sg13g2_inv_8	0.02346	2.40000
sg13g2_inv_4	0.01174	1.20000
sg13g2_inv_2	0.00588	0.60000
sg13g2_inv_1	0.00300	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	1502.34000	2685.07000	3867.80000
sg13g2_inv_8	751.16400	1342.57000	1933.98000
sg13g2_inv_4	375.59200	671.27300	966.95300
sg13g2_inv_2	187.79600	335.62400	483.45200
sg13g2_inv_1	93.89730	167.81800	241.73800

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	**0.01228**	0.32940	1.03680	**0.27409**	2.50740	4.80000	**1.53289**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01219**	0.32940	0.51840	**0.27356**	2.50740	2.40000	**1.53312**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01246**	0.32940	0.25920	**0.27329**	2.50740	1.20000	**1.53196**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01340**	0.32940	0.12960	**0.27283**	2.50740	0.60000	**1.52823**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.01570**	0.32940	0.06480	**0.27331**	2.50740	0.30000	**1.52965**

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	**0.01157**	0.32940	1.03680	**0.24651**	2.50740	4.80000	**1.38454**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01151**	0.32940	0.51840	**0.24660**	2.50740	2.40000	**1.38569**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01173**	0.32940	0.25920	**0.24622**	2.50740	1.20000	**1.38513**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01253**	0.32940	0.12960	**0.24522**	2.50740	0.60000	**1.37794**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01452**	0.32940	0.06480	**0.24549**	2.50740	0.30000	**1.37813**

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	**0.03429**	0.32940	1.03680	**0.06245**	2.50740	4.80000	**0.31718**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01638**	0.32940	0.51840	**0.03027**	2.50740	2.40000	**0.16262**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00817**	0.32940	0.25920	**0.01511**	2.50740	1.20000	**0.07881**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00407**	0.32940	0.12960	**0.00750**	2.50740	0.60000	**0.04039**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00231**	0.32940	0.06480	**0.00398**	2.50740	0.30000	**0.01997**

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	**0.02976**	0.32940	1.03680	**0.05600**	2.50740	4.80000	**0.27892**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01421**	0.32940	0.51840	**0.02686**	2.50740	2.40000	**0.13767**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00716**	0.32940	0.25920	**0.01341**	2.50740	1.20000	**0.06902**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00368**	0.32940	0.12960	**0.00691**	2.50740	0.60000	**0.03482**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00238**	0.32940	0.06480	**0.00384**	2.50740	0.30000	**0.01783**

ITL

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_8	39.91680

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_8	0.01565	0.01643	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	2425.43000	3016.80000	3608.16000

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	0.02051	**0.01870**	0.32940	0.53791	**0.39576**	2.50740	2.41951	**2.14851**
	TE_B->Z (RR)	0.01860	0.02051	**0.04969**	0.32940	0.53791	**0.12646**	2.50740	2.41951	**0.26395**
	TE_B->Z (FR)	0.01860	0.02051	**0.02462**	0.32940	0.53791	**0.36942**	2.50740	2.41951	**1.85374**

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	0.02999	**0.01673**	0.32940	0.54739	**0.32085**	2.50740	2.42899	**1.76982**

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	0.02051	**0.03084**	0.32940	0.53791	**0.04183**	2.50740	2.41951	**0.13955**
	TE_B	0.01860	0.02051	**0.07251**	0.32940	0.53791	**0.04819**	2.50740	2.41951	**0.04230**

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	0.02999	**0.02870**	0.32940	0.54739	**0.03889**	2.50740	2.42899	**0.11327**

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	**-0.01862**	0.32940	**-0.03086**	2.50740	**0.01213**

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	**0.01862**	0.32940	**0.04465**	2.50740	**0.08999**

KEEPSTATE

sg13g2_stdcell_typ_1p50V_25C Cell Library:
Process sg13g2_stdcell_typ_1p50V_25C,
Voltage 1.50, Temp 25.00

Truth Table

INPUT	OUTPUT
SH	SH
x	-

Footprint

Cell Name	Area
sg13g2_sighold	9.07200

Pin Capacitance Information

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

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	76.36080	435.86400	795.36700

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_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux2_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	0.00216	0.00229	0.00543	0.60000
sg13g2_mux2_1	0.00219	0.00231	0.00543	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_2	755.56400	894.12900	1001.57000
sg13g2_mux2_1	622.29500	726.31200	861.45200

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	**0.06029**	0.32940	0.12960	**0.27425**	2.50740	0.60000	**0.89560**
	A1->X (RR)	0.01860	0.00100	**0.03620**	0.32940	0.12960	**0.27434**	2.50740	0.60000	**0.90159**
	S->X (-R)	0.01860	0.00100	**0.06207**	0.32940	0.12960	**0.26688**	2.50740	0.60000	**0.88737**
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.04911**	0.32940	0.06480	**0.24595**	2.50740	0.30000	**0.83978**
	A1->X (RR)	0.01860	0.00100	**0.03671**	0.32940	0.06480	**0.24895**	2.50740	0.30000	**0.84672**
	S->X (-R)	0.01860	0.00100	**0.07956**	0.32940	0.06480	**0.26797**	2.50740	0.30000	**0.84152**

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	**0.04197**	0.32940	0.12960	**0.29865**	2.50740	0.60000	**0.95844**
	A1->X (FF)	0.01860	0.00100	**0.07947**	0.32940	0.12960	**0.30204**	2.50740	0.60000	**0.96630**
	S->X (-F)	0.01860	0.00100	**0.08798**	0.32940	0.12960	**0.28318**	2.50740	0.60000	**0.89917**
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.04247**	0.32940	0.06480	**0.26365**	2.50740	0.30000	**0.89472**
	A1->X (FF)	0.01860	0.00100	**0.06535**	0.32940	0.06480	**0.26757**	2.50740	0.30000	**0.90508**
	S->X (-F)	0.01860	0.00100	**0.07380**	0.32940	0.06480	**0.25198**	2.50740	0.30000	**0.84412**

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	**0.06207**	0.32940	0.12960	**0.26688**	2.50740	0.60000	**0.88737**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.08733**	0.32940	0.12960	**0.28207**	2.50740	0.60000	**0.86055**
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.05447**	0.32940	0.06480	**0.24434**	2.50740	0.30000	**0.83844**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.07956**	0.32940	0.06480	**0.26797**	2.50740	0.30000	**0.84152**

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	**0.08798**	0.32940	0.12960	**0.28318**	2.50740	0.60000	**0.89917**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.10923**	0.32940	0.12960	**0.28930**	2.50740	0.60000	**0.77134**
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.07380**	0.32940	0.06480	**0.25198**	2.50740	0.30000	**0.84412**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.09504**	0.32940	0.06480	**0.26471**	2.50740	0.30000	**0.74499**

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	**0.02055**	0.32940	0.12960	**0.02216**	2.50740	0.60000	**0.05746**
	A1	0.01860	0.00100	**0.02171**	0.32940	0.12960	**0.03307**	2.50740	0.60000	**0.06898**
	S	0.01860	0.00100	**0.02228**	0.32940	0.12960	**0.02476**	2.50740	0.60000	**0.05956**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01569**	0.32940	0.06480	**0.01865**	2.50740	0.30000	**0.05413**
	A1	0.01860	0.00100	**0.01491**	0.32940	0.06480	**0.02338**	2.50740	0.30000	**0.05818**
	S	0.01860	0.00100	**0.01584**	0.32940	0.06480	**0.01857**	2.50740	0.30000	**0.05345**

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	**0.02273**	0.32940	0.12960	**0.03436**	2.50740	0.60000	**0.07236**
	A1	0.01860	0.00100	**0.02365**	0.32940	0.12960	**0.02474**	2.50740	0.60000	**0.06397**
	S	0.01860	0.00100	**0.02239**	0.32940	0.12960	**0.02323**	2.50740	0.60000	**0.05956**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01491**	0.32940	0.06480	**0.02408**	2.50740	0.30000	**0.05939**
	A1	0.01860	0.00100	**0.01568**	0.32940	0.06480	**0.01891**	2.50740	0.30000	**0.05524**
	S	0.01860	0.00100	**0.01495**	0.32940	0.06480	**0.01738**	2.50740	0.30000	**0.05396**

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	**0.02171**	0.32940	0.12960	**0.02179**	2.50740	0.60000	**0.02303**
	S	(!A0 * A1)	0.01860	0.00100	**0.02228**	0.32940	0.12960	**0.02476**	2.50740	0.60000	**0.05956**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01521**	0.32940	0.06480	**0.01538**	2.50740	0.30000	**0.01700**
	S	(!A0 * A1)	0.01860	0.00100	**0.01584**	0.32940	0.06480	**0.01857**	2.50740	0.30000	**0.05345**

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	**0.02378**	0.32940	0.12960	**0.02305**	2.50740	0.60000	**0.02613**
	S	(!A0 * A1)	0.01860	0.00100	**0.02239**	0.32940	0.12960	**0.02323**	2.50740	0.60000	**0.05956**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01629**	0.32940	0.06480	**0.01664**	2.50740	0.30000	**0.01821**
	S	(!A0 * A1)	0.01860	0.00100	**0.01495**	0.32940	0.06480	**0.01738**	2.50740	0.30000	**0.05396**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00541**	0.32940	**0.00826**	2.50740	**0.04219**
sg13g2_mux2_1	0.01860	**0.00540**	0.32940	**0.00826**	2.50740	**0.04219**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00623**	0.32940	**0.00947**	2.50740	**0.04308**
sg13g2_mux2_1	0.01860	**0.00622**	0.32940	**0.00947**	2.50740	**0.04308**

MUX4

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux4_1	38.10240

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	A3	S0	S1	X
sg13g2_mux4_1	0.00298	0.00296	0.00298	0.00307	0.00854	0.00527	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	863.95900	1307.19000	1573.90000

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	**0.08891**	0.32940	0.06480	**0.30081**	2.50740	0.30000	**0.97297**
	A1->X (RR)	0.01860	0.00100	**0.08703**	0.32940	0.06480	**0.29950**	2.50740	0.30000	**0.97032**
	A2->X (RR)	0.01860	0.00100	**0.09404**	0.32940	0.06480	**0.30689**	2.50740	0.30000	**0.98671**
	A3->X (RR)	0.01860	0.00100	**0.08993**	0.32940	0.06480	**0.30592**	2.50740	0.30000	**0.98544**
	S0->X (-R)	0.01860	0.00100	**0.07833**	0.32940	0.06480	**0.30218**	2.50740	0.30000	**0.97597**
	S1->X (-R)	0.01860	0.00100	**0.04631**	0.32940	0.06480	**0.24491**	2.50740	0.30000	**0.84815**

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	**0.10554**	0.32940	0.06480	**0.30218**	2.50740	0.30000	**0.89618**
	A1->X (FF)	0.01860	0.00100	**0.10531**	0.32940	0.06480	**0.30273**	2.50740	0.30000	**0.89731**
	A2->X (FF)	0.01860	0.00100	**0.11163**	0.32940	0.06480	**0.31191**	2.50740	0.30000	**0.91229**
	A3->X (FF)	0.01860	0.00100	**0.11270**	0.32940	0.06480	**0.31159**	2.50740	0.30000	**0.91250**
	S0->X (-F)	0.01860	0.00100	**0.09652**	0.32940	0.06480	**0.31342**	2.50740	0.30000	**0.94517**
	S1->X (-F)	0.01860	0.00100	**0.05652**	0.32940	0.06480	**0.24851**	2.50740	0.30000	**0.84650**

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	**0.07833**	0.32940	0.06480	**0.30218**	2.50740	0.30000	**0.97597**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.07406**	0.32940	0.06480	**0.29263**	2.50740	0.30000	**0.95231**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.11671**	0.32940	0.06480	**0.32756**	2.50740	0.30000	**0.94339**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.11357**	0.32940	0.06480	**0.32191**	2.50740	0.30000	**0.93537**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.04638**	0.32940	0.06480	**0.24490**	2.50740	0.30000	**0.84768**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.04631**	0.32940	0.06480	**0.24491**	2.50740	0.30000	**0.84815**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.06301**	0.32940	0.06480	**0.25847**	2.50740	0.30000	**0.83903**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.06287**	0.32940	0.06480	**0.25841**	2.50740	0.30000	**0.83903**

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	**0.09652**	0.32940	0.06480	**0.31342**	2.50740	0.30000	**0.94517**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.08843**	0.32940	0.06480	**0.29947**	2.50740	0.30000	**0.92105**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.12614**	0.32940	0.06480	**0.32488**	2.50740	0.30000	**0.85479**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.11983**	0.32940	0.06480	**0.31584**	2.50740	0.30000	**0.84290**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.05652**	0.32940	0.06480	**0.24851**	2.50740	0.30000	**0.84650**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.05634**	0.32940	0.06480	**0.24835**	2.50740	0.30000	**0.84613**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.06864**	0.32940	0.06480	**0.25357**	2.50740	0.30000	**0.75348**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.06877**	0.32940	0.06480	**0.25361**	2.50740	0.30000	**0.75350**

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	**0.02126**	0.32940	0.06480	**0.02247**	2.50740	0.30000	**0.05498**
	A1	0.01860	0.00100	**0.02839**	0.32940	0.06480	**0.02950**	2.50740	0.30000	**0.06126**
	A2	0.01860	0.00100	**0.02932**	0.32940	0.06480	**0.03037**	2.50740	0.30000	**0.06263**
	A3	0.01860	0.00100	**0.01941**	0.32940	0.06480	**0.02049**	2.50740	0.30000	**0.05251**
	S0	0.01860	0.00100	**0.01521**	0.32940	0.06480	**0.01702**	2.50740	0.30000	**0.05017**
	S1	0.01860	0.00100	**0.01228**	0.32940	0.06480	**0.01462**	2.50740	0.30000	**0.03639**

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	**0.02130**	0.32940	0.06480	**0.02198**	2.50740	0.30000	**0.05468**
	A1	0.01860	0.00100	**0.03047**	0.32940	0.06480	**0.03146**	2.50740	0.30000	**0.06431**
	A2	0.01860	0.00100	**0.03159**	0.32940	0.06480	**0.03237**	2.50740	0.30000	**0.06440**
	A3	0.01860	0.00100	**0.02292**	0.32940	0.06480	**0.02360**	2.50740	0.30000	**0.05533**
	S0	0.01860	0.00100	**0.02721**	0.32940	0.06480	**0.03171**	2.50740	0.30000	**0.00325**
	S1	0.01860	0.00100	**0.00874**	0.32940	0.06480	**0.01126**	2.50740	0.30000	**0.03990**

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	**0.02878**	0.32940	0.06480	**0.01853**	2.50740	0.30000	**-0.00325**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02869**	0.32940	0.06480	**0.01850**	2.50740	0.30000	**-0.00343**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01518**	0.32940	0.06480	**0.01709**	2.50740	0.30000	**0.05126**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01521**	0.32940	0.06480	**0.01702**	2.50740	0.30000	**0.05017**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01228**	0.32940	0.06480	**0.01462**	2.50740	0.30000	**0.03639**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01332**	0.32940	0.06480	**0.01564**	2.50740	0.30000	**0.03742**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00907**	0.32940	0.06480	**0.01174**	2.50740	0.30000	**0.03910**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00909**	0.32940	0.06480	**0.01174**	2.50740	0.30000	**0.03909**

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	**0.02721**	0.32940	0.06480	**0.03171**	2.50740	0.30000	**0.00325**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02637**	0.32940	0.06480	**0.03223**	2.50740	0.30000	**0.00343**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01644**	0.32940	0.06480	**0.01858**	2.50740	0.30000	**0.05087**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.02294**	0.32940	0.06480	**0.01361**	2.50740	0.30000	**0.01259**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01290**	0.32940	0.06480	**0.01543**	2.50740	0.30000	**0.03780**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01392**	0.32940	0.06480	**0.01644**	2.50740	0.30000	**0.03869**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00672**	0.32940	0.06480	**0.00921**	2.50740	0.30000	**0.03787**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00874**	0.32940	0.06480	**0.01126**	2.50740	0.30000	**0.03990**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01155**	0.32940	**0.01858**	2.50740	**0.09275**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01012**	0.32940	**0.02336**	2.50740	**0.09692**

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	**0.01073**	0.32940	**0.01762**	2.50740	**0.09178**
	(A0 * A1 * !S1)	0.01860	**0.01166**	0.32940	**0.01819**	2.50740	**0.09181**
	(!A2 * !A3 * S1)	0.01860	**0.01155**	0.32940	**0.01858**	2.50740	**0.09275**
	(!A0 * !A1 * !S1)	0.01860	**0.01297**	0.32940	**0.01966**	2.50740	**0.09331**

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	**0.01051**	0.32940	**0.02388**	2.50740	**0.09766**
	(A0 * A1 * !S1)	0.01860	**0.01140**	0.32940	**0.02665**	2.50740	**0.09996**
	(!A2 * !A3 * S1)	0.01860	**0.01012**	0.32940	**0.02336**	2.50740	**0.09692**
	(!A0 * !A1 * !S1)	0.01860	**0.01112**	0.32940	**0.01841**	2.50740	**0.09152**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00581**	0.32940	**0.00994**	2.50740	**0.05129**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00643**	0.32940	**0.01106**	2.50740	**0.05205**

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	**0.00581**	0.32940	**0.00994**	2.50740	**0.05129**
	(A0 * A2 * !S0)	0.01860	**0.00579**	0.32940	**0.00991**	2.50740	**0.05127**
	(!A1 * !A3 * S0)	0.01860	**0.00634**	0.32940	**0.01072**	2.50740	**0.05205**
	(!A0 * !A2 * !S0)	0.01860	**0.00633**	0.32940	**0.01069**	2.50740	**0.05204**

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	**0.00645**	0.32940	**0.01109**	2.50740	**0.05208**
	(A0 * A2 * !S0)	0.01860	**0.00643**	0.32940	**0.01106**	2.50740	**0.05205**
	(!A1 * !A3 * S0)	0.01860	**0.00632**	0.32940	**0.01081**	2.50740	**0.05169**
	(!A0 * !A2 * !S0)	0.01860	**0.00632**	0.32940	**0.01081**	2.50740	**0.05168**

NAND2B1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00245	0.00329	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	161.32200	357.10700	551.88500

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	**0.03607**	0.32940	0.06480	**0.22161**	2.50740	0.30000	**0.82673**
	B->Y (FR)	0.01860	0.00100	**0.01940**	0.32940	0.06480	**0.27731**	2.50740	0.30000	**1.53125**

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	**0.04347**	0.32940	0.06480	**0.27854**	2.50740	0.30000	**1.06001**
	B->Y (RF)	0.01860	0.00100	**0.02542**	0.32940	0.06480	**0.30020**	2.50740	0.30000	**1.58773**

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	**0.00311**	0.32940	0.06480	**0.00322**	2.50740	0.30000	**0.00274**
	B	0.01860	0.00100	**0.00259**	0.32940	0.06480	**0.00367**	2.50740	0.30000	**0.01842**

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	**0.00670**	0.32940	0.06480	**0.00690**	2.50740	0.30000	**0.00653**
	B	0.01860	0.00100	**0.00657**	0.32940	0.06480	**0.00719**	2.50740	0.30000	**0.01831**

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	**0.00605**	0.32940	**0.00943**	2.50740	**0.04381**

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	**0.00319**	0.32940	**0.00664**	2.50740	**0.04054**

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	**0.00605**	0.32940	**0.00943**	2.50740	**0.04381**

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	**0.00319**	0.32940	**0.00664**	2.50740	**0.04054**

NAND2B2

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_2	0.00233	0.00556	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_2	360.89300	583.53400	1016.78000

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	**0.04734**	0.32940	0.12960	**0.25102**	2.50740	0.60000	**0.88554**
	B->Y (FR)	0.01860	0.00100	**0.01514**	0.32940	0.12960	**0.27394**	2.50740	0.60000	**1.52455**

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	**0.05828**	0.32940	0.12960	**0.32432**	2.50740	0.60000	**1.16602**
	B->Y (RF)	0.01860	0.00100	**0.01976**	0.32940	0.12960	**0.32641**	2.50740	0.60000	**1.79972**

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	**0.00631**	0.32940	0.12960	**0.00684**	2.50740	0.60000	**0.00740**
	B	0.01860	0.00100	**0.00790**	0.32940	0.12960	**0.01063**	2.50740	0.60000	**0.03729**

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	**0.01334**	0.32940	0.12960	**0.01405**	2.50740	0.60000	**0.01758**
	B	0.01860	0.00100	**0.01018**	0.32940	0.12960	**0.01201**	2.50740	0.60000	**0.03532**

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	**0.00998**	0.32940	**0.01232**	2.50740	**0.04514**

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	**0.00958**	0.32940	**0.01246**	2.50740	**0.04484**

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	**0.00998**	0.32940	**0.01232**	2.50740	**0.04514**

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	**0.00958**	0.32940	**0.01246**	2.50740	**0.04484**

NAND2x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2_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	0.00580	0.00602	0.60000
sg13g2_nand2_1	0.00305	0.00318	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_2	184.01200	460.88700	948.37200
sg13g2_nand2_1	92.87420	234.41200	483.38900

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	**0.01558**	0.32940	0.12960	**0.27457**	2.50740	0.60000	**1.52396**
	B->Y (FR)	0.01860	0.00100	**0.01884**	0.32940	0.12960	**0.27807**	2.50740	0.60000	**1.53005**
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.01733**	0.32940	0.06480	**0.27444**	2.50740	0.30000	**1.52295**
	B->Y (FR)	0.01860	0.00100	**0.01993**	0.32940	0.06480	**0.27724**	2.50740	0.30000	**1.52980**

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	**0.01948**	0.32940	0.12960	**0.32615**	2.50740	0.60000	**1.79926**
	B->Y (RF)	0.01860	0.00100	**0.02306**	0.32940	0.12960	**0.30822**	2.50740	0.60000	**1.62963**
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.02094**	0.32940	0.06480	**0.31838**	2.50740	0.30000	**1.75369**
	B->Y (RF)	0.01860	0.00100	**0.02370**	0.32940	0.06480	**0.29875**	2.50740	0.30000	**1.59014**

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	**0.00455**	0.32940	0.12960	**0.00748**	2.50740	0.60000	**0.03275**
	B	0.01860	0.00100	**0.00580**	0.32940	0.12960	**0.00817**	2.50740	0.60000	**0.03709**
sg13g2_nand2_1	A	0.01860	0.00100	**0.00248**	0.32940	0.06480	**0.00392**	2.50740	0.30000	**0.01723**
	B	0.01860	0.00100	**0.00262**	0.32940	0.06480	**0.00377**	2.50740	0.30000	**0.01913**

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	**0.00659**	0.32940	0.12960	**0.00857**	2.50740	0.60000	**0.03185**
	B	0.01860	0.00100	**0.01194**	0.32940	0.12960	**0.01338**	2.50740	0.60000	**0.03486**
sg13g2_nand2_1	A	0.01860	0.00100	**0.00356**	0.32940	0.06480	**0.00456**	2.50740	0.30000	**0.01673**
	B	0.01860	0.00100	**0.00632**	0.32940	0.06480	**0.00697**	2.50740	0.30000	**0.01887**

NAND3B1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand3b_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A_N	B	C	Y
sg13g2_nand3b_1	0.00238	0.00317	0.00318	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	164.40600	390.89200	793.55200

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	**0.03816**	0.32940	0.06480	**0.22252**	2.50740	0.30000	**0.82477**
	B->Y (FR)	0.01860	0.00100	**0.02169**	0.32940	0.06480	**0.27955**	2.50740	0.30000	**1.52824**
	C->Y (FR)	0.01860	0.00100	**0.02353**	0.32940	0.06480	**0.28203**	2.50740	0.30000	**1.53221**

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	**0.05215**	0.32940	0.06480	**0.35881**	2.50740	0.30000	**1.40558**
	B->Y (RF)	0.01860	0.00100	**0.03768**	0.32940	0.06480	**0.38396**	2.50740	0.30000	**1.98033**
	C->Y (RF)	0.01860	0.00100	**0.04148**	0.32940	0.06480	**0.36698**	2.50740	0.30000	**1.79333**

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	**0.00351**	0.32940	0.06480	**0.00364**	2.50740	0.30000	**0.00321**
	B	0.01860	0.00100	**0.00328**	0.32940	0.06480	**0.00417**	2.50740	0.30000	**0.01680**
	C	0.01860	0.00100	**0.00374**	0.32940	0.06480	**0.00431**	2.50740	0.30000	**0.01696**

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	**0.00852**	0.32940	0.06480	**0.00863**	2.50740	0.30000	**0.00794**
	B	0.01860	0.00100	**0.00840**	0.32940	0.06480	**0.00884**	2.50740	0.30000	**0.01928**
	C	0.01860	0.00100	**0.01118**	0.32940	0.06480	**0.01148**	2.50740	0.30000	**0.02129**

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	**0.00599**	0.32940	**0.00934**	2.50740	**0.04372**

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	**0.00328**	0.32940	**0.00673**	2.50740	**0.04063**

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	**0.00599**	0.32940	**0.00934**	2.50740	**0.04372**

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	**0.00328**	0.32940	**0.00673**	2.50740	**0.04063**

NAND3

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nand3_1	0.00292	0.00308	0.00306	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	96.07480	268.33200	725.21700

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	**0.01962**	0.32940	0.06480	**0.27634**	2.50740	0.30000	**1.52232**
	B->Y (FR)	0.01860	0.00100	**0.02227**	0.32940	0.06480	**0.27898**	2.50740	0.30000	**1.52824**
	C->Y (FR)	0.01860	0.00100	**0.02378**	0.32940	0.06480	**0.28203**	2.50740	0.30000	**1.53219**

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	**0.02934**	0.32940	0.06480	**0.39190**	2.50740	0.30000	**2.10261**
	B->Y (RF)	0.01860	0.00100	**0.03545**	0.32940	0.06480	**0.38224**	2.50740	0.30000	**1.97953**
	C->Y (RF)	0.01860	0.00100	**0.03840**	0.32940	0.06480	**0.36382**	2.50740	0.30000	**1.79150**

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	**0.00305**	0.32940	0.06480	**0.00416**	2.50740	0.30000	**0.01571**
	B	0.01860	0.00100	**0.00329**	0.32940	0.06480	**0.00403**	2.50740	0.30000	**0.01690**
	C	0.01860	0.00100	**0.00376**	0.32940	0.06480	**0.00437**	2.50740	0.30000	**0.01751**

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	**0.00533**	0.32940	0.06480	**0.00622**	2.50740	0.30000	**0.01721**
	B	0.01860	0.00100	**0.00816**	0.32940	0.06480	**0.00861**	2.50740	0.30000	**0.01918**
	C	0.01860	0.00100	**0.01059**	0.32940	0.06480	**0.01092**	2.50740	0.30000	**0.02112**

NAND4

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand4_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nand4_1	0.00289	0.00305	0.00306	0.00306	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	99.39170	293.39200	966.89000

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	**0.02042**	0.32940	0.06480	**0.27702**	2.50740	0.30000	**1.52096**
	B->Y (FR)	0.01860	0.00100	**0.02337**	0.32940	0.06480	**0.28033**	2.50740	0.30000	**1.52623**
	C->Y (FR)	0.01860	0.00100	**0.02499**	0.32940	0.06480	**0.28319**	2.50740	0.30000	**1.53232**
	D->Y (FR)	0.01860	0.00100	**0.02565**	0.32940	0.06480	**0.28559**	2.50740	0.30000	**1.53316**

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	**0.03647**	0.32940	0.06480	**0.46463**	2.50740	0.30000	**2.41571**
	B->Y (RF)	0.01860	0.00100	**0.04594**	0.32940	0.06480	**0.46213**	2.50740	0.30000	**2.32189**
	C->Y (RF)	0.01860	0.00100	**0.05154**	0.32940	0.06480	**0.44990**	2.50740	0.30000	**2.18050**
	D->Y (RF)	0.01860	0.00100	**0.05420**	0.32940	0.06480	**0.43803**	2.50740	0.30000	**2.03666**

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	**0.00295**	0.32940	0.06480	**0.00398**	2.50740	0.30000	**0.01546**
	B	0.01860	0.00100	**0.00336**	0.32940	0.06480	**0.00404**	2.50740	0.30000	**0.01595**
	C	0.01860	0.00100	**0.00378**	0.32940	0.06480	**0.00420**	2.50740	0.30000	**0.01579**
	D	0.01860	0.00100	**0.00409**	0.32940	0.06480	**0.00442**	2.50740	0.30000	**0.01621**

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	**0.00645**	0.32940	0.06480	**0.00711**	2.50740	0.30000	**0.01692**
	B	0.01860	0.00100	**0.00929**	0.32940	0.06480	**0.00954**	2.50740	0.30000	**0.01805**
	C	0.01860	0.00100	**0.01178**	0.32940	0.06480	**0.01187**	2.50740	0.30000	**0.02140**
	D	0.01860	0.00100	**0.01420**	0.32940	0.06480	**0.01425**	2.50740	0.30000	**0.02435**

NOR2Bx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2b_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	0.00590	0.00284	0.60000
sg13g2_nor2b_1	0.00304	0.00241	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_2	514.85900	644.35000	801.20700
sg13g2_nor2b_1	289.51000	377.06300	477.24500

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	**0.02233**	0.32940	0.12960	**0.39621**	2.50740	0.60000	**2.13935**
	B_N->Y (RR)	0.01860	0.00100	**0.05377**	0.32940	0.12960	**0.37989**	2.50740	0.60000	**1.45910**
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.02527**	0.32940	0.06480	**0.39675**	2.50740	0.30000	**2.14453**
	B_N->Y (RR)	0.01860	0.00100	**0.04943**	0.32940	0.06480	**0.36050**	2.50740	0.30000	**1.41326**

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	**0.01480**	0.32940	0.12960	**0.25217**	2.50740	0.60000	**1.40235**
	B_N->Y (FF)	0.01860	0.00100	**0.04901**	0.32940	0.12960	**0.23223**	2.50740	0.60000	**0.78595**
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.01606**	0.32940	0.06480	**0.24669**	2.50740	0.30000	**1.37396**
	B_N->Y (FF)	0.01860	0.00100	**0.04160**	0.32940	0.06480	**0.20665**	2.50740	0.30000	**0.72988**

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	**0.00630**	0.32940	0.12960	**0.00882**	2.50740	0.60000	**0.03286**
	B_N	0.01860	0.00100	**0.01357**	0.32940	0.12960	**0.01374**	2.50740	0.60000	**0.01439**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00314**	0.32940	0.06480	**0.00433**	2.50740	0.30000	**0.01705**
	B_N	0.01860	0.00100	**0.00715**	0.32940	0.06480	**0.00712**	2.50740	0.30000	**0.00743**

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	**0.00457**	0.32940	0.12960	**0.00689**	2.50740	0.60000	**0.02604**
	B_N	0.01860	0.00100	**0.00682**	0.32940	0.12960	**0.00679**	2.50740	0.60000	**0.00767**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00287**	0.32940	0.06480	**0.00406**	2.50740	0.30000	**0.01551**
	B_N	0.01860	0.00100	**0.00372**	0.32940	0.06480	**0.00358**	2.50740	0.30000	**0.00368**

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	**0.01106**	0.32940	**0.01424**	2.50740	**0.05379**
sg13g2_nor2b_1	0.01860	**0.00609**	0.32940	**0.00919**	2.50740	**0.04311**

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	**0.00968**	0.32940	**0.01314**	2.50740	**0.05239**
sg13g2_nor2b_1	0.01860	**0.00562**	0.32940	**0.00888**	2.50740	**0.04251**

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	**0.01106**	0.32940	**0.01424**	2.50740	**0.05379**
sg13g2_nor2b_1	**A**	0.01860	**0.00609**	0.32940	**0.00919**	2.50740	**0.04311**

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	**0.00968**	0.32940	**0.01314**	2.50740	**0.05239**
sg13g2_nor2b_1	**A**	0.01860	**0.00562**	0.32940	**0.00888**	2.50740	**0.04251**

NOR2x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2_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	0.00616	0.00589	0.30000
sg13g2_nor2_1	0.00319	0.00304	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_2	375.59000	508.93300	617.01900
sg13g2_nor2_1	187.82800	254.47200	308.48700

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	**0.02813**	0.32940	0.06480	**0.23866**	2.50740	0.30000	**1.21327**
	B->Y (FR)	0.01860	0.00100	**0.02252**	0.32940	0.06480	**0.26424**	2.50740	0.30000	**1.42023**
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.02976**	0.32940	0.06480	**0.37089**	2.50740	0.30000	**1.90041**
	B->Y (FR)	0.01860	0.00100	**0.02535**	0.32940	0.06480	**0.39654**	2.50740	0.30000	**2.14339**

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	**0.01728**	0.32940	0.06480	**0.17538**	2.50740	0.30000	**0.92858**
	B->Y (RF)	0.01860	0.00100	**0.01458**	0.32940	0.06480	**0.17011**	2.50740	0.30000	**0.91729**
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.01835**	0.32940	0.06480	**0.25012**	2.50740	0.30000	**1.37931**
	B->Y (RF)	0.01860	0.00100	**0.01610**	0.32940	0.06480	**0.24665**	2.50740	0.30000	**1.37390**

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	**0.01347**	0.32940	0.06480	**0.01569**	2.50740	0.30000	**0.05371**
	B	0.01860	0.00100	**0.00642**	0.32940	0.06480	**0.01040**	2.50740	0.30000	**0.04975**
sg13g2_nor2_1	A	0.01860	0.00100	**0.00666**	0.32940	0.06480	**0.00724**	2.50740	0.30000	**0.01990**
	B	0.01860	0.00100	**0.00314**	0.32940	0.06480	**0.00434**	2.50740	0.30000	**0.01710**

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	**0.00610**	0.32940	0.06480	**0.00935**	2.50740	0.30000	**0.04681**
	B	0.01860	0.00100	**0.00451**	0.32940	0.06480	**0.00831**	2.50740	0.30000	**0.04256**
sg13g2_nor2_1	A	0.01860	0.00100	**0.00303**	0.32940	0.06480	**0.00404**	2.50740	0.30000	**0.01602**
	B	0.01860	0.00100	**0.00287**	0.32940	0.06480	**0.00405**	2.50740	0.30000	**0.01552**

NOR3x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor3_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	0.00612	0.00605	0.00582	0.60000
sg13g2_nor3_1	0.00322	0.00321	0.00304	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_2	445.71700	630.66700	878.31100
sg13g2_nor3_1	229.89500	326.05900	460.24300

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	**0.04863**	0.32940	0.12960	**0.49795**	2.50740	0.60000	**2.33403**
	B->Y (FR)	0.01860	0.00100	**0.04498**	0.32940	0.12960	**0.51836**	2.50740	0.60000	**2.55124**
	C->Y (FR)	0.01860	0.00100	**0.03195**	0.32940	0.12960	**0.52630**	2.50740	0.60000	**2.70150**
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.05282**	0.32940	0.06480	**0.49639**	2.50740	0.30000	**2.32971**
	B->Y (FR)	0.01860	0.00100	**0.04931**	0.32940	0.06480	**0.51715**	2.50740	0.30000	**2.53818**
	C->Y (FR)	0.01860	0.00100	**0.03791**	0.32940	0.06480	**0.52614**	2.50740	0.30000	**2.69441**

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	**0.01910**	0.32940	0.12960	**0.25499**	2.50740	0.60000	**1.38502**
	B->Y (RF)	0.01860	0.00100	**0.01903**	0.32940	0.12960	**0.25188**	2.50740	0.60000	**1.37773**
	C->Y (RF)	0.01860	0.00100	**0.01623**	0.32940	0.12960	**0.24799**	2.50740	0.60000	**1.37116**
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.02005**	0.32940	0.06480	**0.24881**	2.50740	0.30000	**1.35007**
	B->Y (RF)	0.01860	0.00100	**0.01986**	0.32940	0.06480	**0.24674**	2.50740	0.30000	**1.34811**
	C->Y (RF)	0.01860	0.00100	**0.01763**	0.32940	0.06480	**0.24302**	2.50740	0.30000	**1.34070**

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	**0.02245**	0.32940	0.12960	**0.02269**	2.50740	0.60000	**0.04566**
	B	0.01860	0.00100	**0.01621**	0.32940	0.12960	**0.01677**	2.50740	0.60000	**0.03674**
	C	0.01860	0.00100	**0.00914**	0.32940	0.12960	**0.01106**	2.50740	0.60000	**0.03258**
sg13g2_nor3_1	A	0.01860	0.00100	**0.01151**	0.32940	0.06480	**0.01163**	2.50740	0.30000	**0.02350**
	B	0.01860	0.00100	**0.00840**	0.32940	0.06480	**0.00866**	2.50740	0.30000	**0.01877**
	C	0.01860	0.00100	**0.00496**	0.32940	0.06480	**0.00583**	2.50740	0.30000	**0.01680**

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	**0.00765**	0.32940	0.12960	**0.00892**	2.50740	0.60000	**0.02979**
	B	0.01860	0.00100	**0.00700**	0.32940	0.12960	**0.00840**	2.50740	0.60000	**0.02810**
	C	0.01860	0.00100	**0.00510**	0.32940	0.12960	**0.00746**	2.50740	0.60000	**0.02596**
sg13g2_nor3_1	A	0.01860	0.00100	**0.00395**	0.32940	0.06480	**0.00449**	2.50740	0.30000	**0.01631**
	B	0.01860	0.00100	**0.00373**	0.32940	0.06480	**0.00443**	2.50740	0.30000	**0.01644**
	C	0.01860	0.00100	**0.00319**	0.32940	0.06480	**0.00423**	2.50740	0.30000	**0.01533**

NOR4x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor4_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	0.00609	0.00596	0.00516	0.00523	0.60000
sg13g2_nor4_1	0.00316	0.00314	0.00271	0.00272	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_2	451.06500	771.77000	1149.89000
sg13g2_nor4_1	225.53700	385.89500	574.96700

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	**0.07645**	0.32940	0.12960	**0.64673**	2.50740	0.60000	**2.84415**
	B->Y (FR)	0.01860	0.00100	**0.07296**	0.32940	0.12960	**0.65754**	2.50740	0.60000	**3.00050**
	C->Y (FR)	0.01860	0.00100	**0.06219**	0.32940	0.12960	**0.66373**	2.50740	0.60000	**3.16233**
	D->Y (FR)	0.01860	0.00100	**0.04159**	0.32940	0.12960	**0.66062**	2.50740	0.60000	**3.26720**
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.07994**	0.32940	0.06480	**0.64099**	2.50740	0.30000	**2.82399**
	B->Y (FR)	0.01860	0.00100	**0.07663**	0.32940	0.06480	**0.65184**	2.50740	0.30000	**2.98134**
	C->Y (FR)	0.01860	0.00100	**0.06669**	0.32940	0.06480	**0.66021**	2.50740	0.30000	**3.14478**
	D->Y (FR)	0.01860	0.00100	**0.04737**	0.32940	0.06480	**0.65794**	2.50740	0.30000	**3.25254**

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	**0.01992**	0.32940	0.12960	**0.25892**	2.50740	0.60000	**1.38949**
	B->Y (RF)	0.01860	0.00100	**0.02050**	0.32940	0.12960	**0.25625**	2.50740	0.60000	**1.38483**
	C->Y (RF)	0.01860	0.00100	**0.02003**	0.32940	0.12960	**0.25333**	2.50740	0.60000	**1.37811**
	D->Y (RF)	0.01860	0.00100	**0.01746**	0.32940	0.12960	**0.24918**	2.50740	0.60000	**1.37171**
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.02113**	0.32940	0.06480	**0.25855**	2.50740	0.30000	**1.38891**
	B->Y (RF)	0.01860	0.00100	**0.02178**	0.32940	0.06480	**0.25658**	2.50740	0.30000	**1.38664**
	C->Y (RF)	0.01860	0.00100	**0.02118**	0.32940	0.06480	**0.25375**	2.50740	0.30000	**1.37994**
	D->Y (RF)	0.01860	0.00100	**0.01870**	0.32940	0.06480	**0.25004**	2.50740	0.30000	**1.37381**

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	**0.02975**	0.32940	0.12960	**0.02960**	2.50740	0.60000	**0.04983**
	B	0.01860	0.00100	**0.02492**	0.32940	0.12960	**0.02489**	2.50740	0.60000	**0.04280**
	C	0.01860	0.00100	**0.01941**	0.32940	0.12960	**0.01956**	2.50740	0.60000	**0.03616**
	D	0.01860	0.00100	**0.01259**	0.32940	0.12960	**0.01420**	2.50740	0.60000	**0.03285**
sg13g2_nor4_1	A	0.01860	0.00100	**0.01483**	0.32940	0.06480	**0.01474**	2.50740	0.30000	**0.02465**
	B	0.01860	0.00100	**0.01224**	0.32940	0.06480	**0.01217**	2.50740	0.30000	**0.02124**
	C	0.01860	0.00100	**0.00986**	0.32940	0.06480	**0.00993**	2.50740	0.30000	**0.01834**
	D	0.01860	0.00100	**0.00655**	0.32940	0.06480	**0.00729**	2.50740	0.30000	**0.01688**

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	**0.01042**	0.32940	0.12960	**0.01172**	2.50740	0.60000	**0.03014**
	B	0.01860	0.00100	**0.00903**	0.32940	0.12960	**0.00954**	2.50740	0.60000	**0.02716**
	C	0.01860	0.00100	**0.00562**	0.32940	0.12960	**0.00680**	2.50740	0.60000	**0.02357**
	D	0.01860	0.00100	**0.00301**	0.32940	0.12960	**0.00532**	2.50740	0.60000	**0.02179**
sg13g2_nor4_1	A	0.01860	0.00100	**0.00513**	0.32940	0.06480	**0.00571**	2.50740	0.30000	**0.01516**
	B	0.01860	0.00100	**0.00472**	0.32940	0.06480	**0.00501**	2.50740	0.30000	**0.01354**
	C	0.01860	0.00100	**0.00302**	0.32940	0.06480	**0.00360**	2.50740	0.30000	**0.01201**
	D	0.01860	0.00100	**0.00193**	0.32940	0.06480	**0.00304**	2.50740	0.30000	**0.01082**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**-0.00080**	0.32940	**-0.00130**	2.50740	**-0.00126**
sg13g2_nor4_1	0.01860	**-0.00028**	0.32940	**-0.00050**	2.50740	**-0.00049**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00127**	0.32940	**0.00130**	2.50740	**0.00126**
sg13g2_nor4_1	0.01860	**0.00049**	0.32940	**0.00050**	2.50740	**0.00049**

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	**-0.00080**	0.32940	**-0.00130**	2.50740	**-0.00126**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00028**	0.32940	**-0.00050**	2.50740	**-0.00049**

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	**0.00127**	0.32940	**0.00130**	2.50740	**0.00126**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00049**	0.32940	**0.00050**	2.50740	**0.00049**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

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

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

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

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00170**	0.32940	**0.00174**	2.50740	**0.00175**
sg13g2_nor4_1	0.01860	**0.00102**	0.32940	**0.00104**	2.50740	**0.00105**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**-0.00058**	0.32940	**-0.00057**	2.50740	**-0.00056**
sg13g2_nor4_1	0.01860	**-0.00064**	0.32940	**-0.00064**	2.50740	**-0.00064**

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	**0.00170**	0.32940	**0.00174**	2.50740	**0.00175**
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**0.00102**	0.32940	**0.00104**	2.50740	**0.00105**

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	**-0.00058**	0.32940	**-0.00057**	2.50740	**-0.00056**
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00064**	0.32940	**-0.00064**	2.50740	**-0.00064**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00234**	0.32940	**0.00237**	2.50740	**0.00236**
sg13g2_nor4_1	0.01860	**0.00133**	0.32940	**0.00135**	2.50740	**0.00134**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**-0.00083**	0.32940	**-0.00083**	2.50740	**-0.00077**
sg13g2_nor4_1	0.01860	**-0.00078**	0.32940	**-0.00079**	2.50740	**-0.00076**

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	**0.00234**	0.32940	**0.00237**	2.50740	**0.00236**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00133**	0.32940	**0.00135**	2.50740	**0.00134**

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	**-0.00083**	0.32940	**-0.00083**	2.50740	**-0.00077**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**-0.00078**	0.32940	**-0.00079**	2.50740	**-0.00076**

NP_ANT

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00115

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	6.74996	6.74996	6.74996

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	**-0.00031**	0.32940	**-0.00032**	2.50740	**-0.00033**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00031**	0.32940	**0.00032**	2.50740	**0.00033**

O21AI

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_o21ai_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_o21ai_1	0.00350	0.00351	0.00317	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	211.92900	444.60600	709.37900

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	**0.04825**	0.32940	0.06480	**0.44218**	2.50740	0.30000	**2.18226**
	A2->Y (FR)	0.01860	0.00100	**0.04187**	0.32940	0.06480	**0.46601**	2.50740	0.30000	**2.43075**
	B1->Y (FR)	0.01860	0.00100	**0.02059**	0.32940	0.06480	**0.31154**	2.50740	0.30000	**1.73511**

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	**0.03268**	0.32940	0.06480	**0.30965**	2.50740	0.30000	**1.57167**
	A2->Y (RF)	0.01860	0.00100	**0.02757**	0.32940	0.06480	**0.30310**	2.50740	0.30000	**1.56041**
	B1->Y (RF)	0.01860	0.00100	**0.02767**	0.32940	0.06480	**0.32980**	2.50740	0.30000	**1.76491**

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	**0.02059**	0.32940	0.06480	**0.31154**	2.50740	0.30000	**1.73511**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01991**	0.32940	0.06480	**0.30948**	2.50740	0.30000	**1.73133**

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	**0.02767**	0.32940	0.06480	**0.32980**	2.50740	0.30000	**1.76491**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02159**	0.32940	0.06480	**0.32127**	2.50740	0.30000	**1.74873**

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	**0.00764**	0.32940	0.06480	**0.00802**	2.50740	0.30000	**0.01945**
	A2	0.01860	0.00100	**0.00379**	0.32940	0.06480	**0.00456**	2.50740	0.30000	**0.01514**
	B1	0.01860	0.00100	**0.00108**	0.32940	0.06480	**0.00231**	2.50740	0.30000	**0.01551**

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	**0.00789**	0.32940	0.06480	**0.00788**	2.50740	0.30000	**0.01785**
	A2	0.01860	0.00100	**0.00732**	0.32940	0.06480	**0.00784**	2.50740	0.30000	**0.01727**
	B1	0.01860	0.00100	**0.00350**	0.32940	0.06480	**0.00452**	2.50740	0.30000	**0.01632**

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	**0.00477**	0.32940	0.06480	**0.00603**	2.50740	0.30000	**0.01955**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00108**	0.32940	0.06480	**0.00231**	2.50740	0.30000	**0.01551**

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	**0.00434**	0.32940	0.06480	**0.00509**	2.50740	0.30000	**0.01652**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00350**	0.32940	0.06480	**0.00452**	2.50740	0.30000	**0.01632**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**-0.00045**	0.32940	**-0.00028**	2.50740	**-0.00023**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00045**	0.32940	**0.00028**	2.50740	**0.00023**

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	**-0.00045**	0.32940	**-0.00028**	2.50740	**-0.00023**

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	**0.00045**	0.32940	**0.00028**	2.50740	**0.00023**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**-0.00034**	0.32940	**-0.00019**	2.50740	**-0.00014**

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	**0.00019**	2.50740	**0.00014**

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	**-0.00034**	0.32940	**-0.00019**	2.50740	**-0.00014**

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	**0.00019**	2.50740	**0.00014**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00011**	0.32940	**0.00011**	2.50740	**0.00012**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00152**	0.32940	**0.00157**	2.50740	**0.00157**

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	**0.00011**	0.32940	**0.00011**	2.50740	**0.00012**

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	**0.00152**	0.32940	**0.00157**	2.50740	**0.00157**

OR2x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or2_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	0.00262	0.00241	0.60000
sg13g2_or2_1	0.00263	0.00244	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_2	349.39200	444.79300	620.15500
sg13g2_or2_1	255.64600	314.08700	378.56700

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	**0.04611**	0.32940	0.12960	**0.25728**	2.50740	0.60000	**0.88555**
	B->X (RR)	0.01860	0.00100	**0.04333**	0.32940	0.12960	**0.24785**	2.50740	0.60000	**0.83985**
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.03917**	0.32940	0.06480	**0.23174**	2.50740	0.30000	**0.82661**
	B->X (RR)	0.01860	0.00100	**0.03627**	0.32940	0.06480	**0.22006**	2.50740	0.30000	**0.77380**

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	**0.08136**	0.32940	0.12960	**0.27289**	2.50740	0.60000	**0.86714**
	B->X (FF)	0.01860	0.00100	**0.07672**	0.32940	0.12960	**0.28925**	2.50740	0.60000	**0.93427**
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.06257**	0.32940	0.06480	**0.23289**	2.50740	0.30000	**0.79731**
	B->X (FF)	0.01860	0.00100	**0.05777**	0.32940	0.06480	**0.24416**	2.50740	0.30000	**0.84976**

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	**0.01593**	0.32940	0.12960	**0.01832**	2.50740	0.60000	**0.04811**
	B	0.01860	0.00100	**0.01565**	0.32940	0.12960	**0.01794**	2.50740	0.60000	**0.04751**
sg13g2_or2_1	**A**	0.01860	0.00100	**0.00946**	0.32940	0.06480	**0.01204**	2.50740	0.30000	**0.04178**
	B	0.01860	0.00100	**0.00918**	0.32940	0.06480	**0.01182**	2.50740	0.30000	**0.04266**

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	**0.01998**	0.32940	0.12960	**0.02023**	2.50740	0.60000	**0.04963**
	B	0.01860	0.00100	**0.01753**	0.32940	0.12960	**0.01829**	2.50740	0.60000	**0.05044**
sg13g2_or2_1	**A**	0.01860	0.00100	**0.01202**	0.32940	0.06480	**0.01385**	2.50740	0.30000	**0.04409**
	B	0.01860	0.00100	**0.00956**	0.32940	0.06480	**0.01233**	2.50740	0.30000	**0.04159**

OR3x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or3_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	0.00275	0.00268	0.00254	0.60000
sg13g2_or3_1	0.00276	0.00270	0.00257	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_2	360.49500	467.21700	715.81800
sg13g2_or3_1	266.54100	354.78300	474.01900

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	**0.05176**	0.32940	0.12960	**0.27396**	2.50740	0.60000	**0.93550**
	B->X (RR)	0.01860	0.00100	**0.04962**	0.32940	0.12960	**0.26551**	2.50740	0.60000	**0.89100**
	C->X (RR)	0.01860	0.00100	**0.04585**	0.32940	0.12960	**0.25456**	2.50740	0.60000	**0.84974**
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.04476**	0.32940	0.06480	**0.25003**	2.50740	0.30000	**0.88468**
	B->X (RR)	0.01860	0.00100	**0.04289**	0.32940	0.06480	**0.24128**	2.50740	0.30000	**0.83159**
	C->X (RR)	0.01860	0.00100	**0.03903**	0.32940	0.06480	**0.22827**	2.50740	0.30000	**0.78508**

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	**0.11240**	0.32940	0.12960	**0.29959**	2.50740	0.60000	**0.87219**
	B->X (FF)	0.01860	0.00100	**0.10853**	0.32940	0.12960	**0.31393**	2.50740	0.60000	**0.95170**
	C->X (FF)	0.01860	0.00100	**0.09812**	0.32940	0.12960	**0.32150**	2.50740	0.60000	**0.98703**
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.08876**	0.32940	0.06480	**0.25776**	2.50740	0.30000	**0.80784**
	B->X (FF)	0.01860	0.00100	**0.08489**	0.32940	0.06480	**0.26905**	2.50740	0.30000	**0.87786**
	C->X (FF)	0.01860	0.00100	**0.07422**	0.32940	0.06480	**0.27262**	2.50740	0.30000	**0.90557**

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	**0.01666**	0.32940	0.12960	**0.01852**	2.50740	0.60000	**0.04947**
	B	0.01860	0.00100	**0.01621**	0.32940	0.12960	**0.01820**	2.50740	0.60000	**0.04687**
	C	0.01860	0.00100	**0.01589**	0.32940	0.12960	**0.01778**	2.50740	0.60000	**0.04626**
sg13g2_or3_1	A	0.01860	0.00100	**0.01007**	0.32940	0.06480	**0.01231**	2.50740	0.30000	**0.04385**
	B	0.01860	0.00100	**0.00969**	0.32940	0.06480	**0.01205**	2.50740	0.30000	**0.04093**
	C	0.01860	0.00100	**0.00939**	0.32940	0.06480	**0.01170**	2.50740	0.30000	**0.04168**

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	**0.02638**	0.32940	0.12960	**0.02403**	2.50740	0.60000	**0.05482**
	B	0.01860	0.00100	**0.02372**	0.32940	0.12960	**0.02189**	2.50740	0.60000	**0.05091**
	C	0.01860	0.00100	**0.02076**	0.32940	0.12960	**0.01987**	2.50740	0.60000	**0.04677**
sg13g2_or3_1	A	0.01860	0.00100	**0.01731**	0.32940	0.06480	**0.01804**	2.50740	0.30000	**0.04855**
	B	0.01860	0.00100	**0.01461**	0.32940	0.06480	**0.01604**	2.50740	0.30000	**0.04470**
	C	0.01860	0.00100	**0.01161**	0.32940	0.06480	**0.01400**	2.50740	0.30000	**0.04311**

OR4x

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or4_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	0.00276	0.00271	0.00225	0.00227	0.60000
sg13g2_or4_1	0.00276	0.00272	0.00225	0.00228	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_2	363.05100	491.98000	793.24100
sg13g2_or4_1	269.29300	388.97300	551.50300

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	**0.05372**	0.32940	0.12960	**0.28184**	2.50740	0.60000	**0.94446**
	B->X (RR)	0.01860	0.00100	**0.05301**	0.32940	0.12960	**0.27457**	2.50740	0.60000	**0.90443**
	C->X (RR)	0.01860	0.00100	**0.05046**	0.32940	0.12960	**0.26654**	2.50740	0.60000	**0.86310**
	D->X (RR)	0.01860	0.00100	**0.04642**	0.32940	0.12960	**0.25579**	2.50740	0.60000	**0.82580**
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.04654**	0.32940	0.06480	**0.25901**	2.50740	0.30000	**0.89330**
	B->X (RR)	0.01860	0.00100	**0.04617**	0.32940	0.06480	**0.25144**	2.50740	0.30000	**0.84824**
	C->X (RR)	0.01860	0.00100	**0.04389**	0.32940	0.06480	**0.24180**	2.50740	0.30000	**0.80314**
	D->X (RR)	0.01860	0.00100	**0.03978**	0.32940	0.06480	**0.22956**	2.50740	0.30000	**0.75994**

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	**0.15456**	0.32940	0.12960	**0.34839**	2.50740	0.60000	**0.92953**
	B->X (FF)	0.01860	0.00100	**0.15082**	0.32940	0.12960	**0.35626**	2.50740	0.60000	**1.00386**
	C->X (FF)	0.01860	0.00100	**0.14085**	0.32940	0.12960	**0.36226**	2.50740	0.60000	**1.05799**
	D->X (FF)	0.01860	0.00100	**0.12348**	0.32940	0.12960	**0.36268**	2.50740	0.60000	**1.08738**
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.12288**	0.32940	0.06480	**0.29856**	2.50740	0.30000	**0.86079**
	B->X (FF)	0.01860	0.00100	**0.11915**	0.32940	0.06480	**0.30485**	2.50740	0.30000	**0.92990**
	C->X (FF)	0.01860	0.00100	**0.10917**	0.32940	0.06480	**0.30800**	2.50740	0.30000	**0.97479**
	D->X (FF)	0.01860	0.00100	**0.09144**	0.32940	0.06480	**0.30535**	2.50740	0.30000	**0.99032**

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	**0.01826**	0.32940	0.12960	**0.01977**	2.50740	0.60000	**0.05025**
	B	0.01860	0.00100	**0.01733**	0.32940	0.12960	**0.01843**	2.50740	0.60000	**0.04681**
	C	0.01860	0.00100	**0.01562**	0.32940	0.12960	**0.01728**	2.50740	0.60000	**0.04197**
	D	0.01860	0.00100	**0.01490**	0.32940	0.12960	**0.01676**	2.50740	0.60000	**0.04310**
sg13g2_or4_1	A	0.01860	0.00100	**0.01158**	0.32940	0.06480	**0.01332**	2.50740	0.30000	**0.04327**
	B	0.01860	0.00100	**0.01074**	0.32940	0.06480	**0.01248**	2.50740	0.30000	**0.03966**
	C	0.01860	0.00100	**0.00909**	0.32940	0.06480	**0.01076**	2.50740	0.30000	**0.03641**
	D	0.01860	0.00100	**0.00839**	0.32940	0.06480	**0.01046**	2.50740	0.30000	**0.03636**

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	**0.02865**	0.32940	0.12960	**0.02395**	2.50740	0.60000	**0.05452**
	B	0.01860	0.00100	**0.02887**	0.32940	0.12960	**0.02428**	2.50740	0.60000	**0.05112**
	C	0.01860	0.00100	**0.02693**	0.32940	0.12960	**0.02277**	2.50740	0.60000	**0.04647**
	D	0.01860	0.00100	**0.02304**	0.32940	0.12960	**0.01975**	2.50740	0.60000	**0.04743**
sg13g2_or4_1	A	0.01860	0.00100	**0.01783**	0.32940	0.06480	**0.01742**	2.50740	0.30000	**0.04642**
	B	0.01860	0.00100	**0.01805**	0.32940	0.06480	**0.01776**	2.50740	0.30000	**0.04586**
	C	0.01860	0.00100	**0.01611**	0.32940	0.06480	**0.01631**	2.50740	0.30000	**0.04257**
	D	0.01860	0.00100	**0.01218**	0.32940	0.06480	**0.01353**	2.50740	0.30000	**0.04032**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00075**	0.32940	**-0.00075**	2.50740	**-0.00076**
sg13g2_or4_1	0.01860	**-0.00074**	0.32940	**-0.00075**	2.50740	**-0.00076**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00316**	0.32940	**0.00319**	2.50740	**0.00318**
sg13g2_or4_1	0.01860	**0.00316**	0.32940	**0.00319**	2.50740	**0.00318**

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	**-0.00075**	0.32940	**-0.00075**	2.50740	**-0.00076**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00074**	0.32940	**-0.00075**	2.50740	**-0.00076**

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	**0.00316**	0.32940	**0.00319**	2.50740	**0.00318**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00316**	0.32940	**0.00319**	2.50740	**0.00318**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00026**	0.32940	**-0.00030**	2.50740	**-0.00029**
sg13g2_or4_1	0.01860	**-0.00026**	0.32940	**-0.00030**	2.50740	**-0.00029**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00026**	0.32940	**0.00030**	2.50740	**0.00029**
sg13g2_or4_1	0.01860	**0.00026**	0.32940	**0.00030**	2.50740	**0.00029**

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	**-0.00026**	0.32940	**-0.00030**	2.50740	**-0.00029**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**-0.00026**	0.32940	**-0.00030**	2.50740	**-0.00029**

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	**0.00026**	0.32940	**0.00030**	2.50740	**0.00029**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**0.00026**	0.32940	**0.00030**	2.50740	**0.00029**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00081**	0.32940	**0.00083**	2.50740	**0.00084**
sg13g2_or4_1	0.01860	**0.00081**	0.32940	**0.00083**	2.50740	**0.00084**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00049**	0.32940	**-0.00050**	2.50740	**-0.00049**
sg13g2_or4_1	0.01860	**-0.00050**	0.32940	**-0.00050**	2.50740	**-0.00049**

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	**0.00081**	0.32940	**0.00083**	2.50740	**0.00084**
sg13g2_or4_1	**(A * !D) + (!A * B * !D)**	0.01860	**0.00081**	0.32940	**0.00083**	2.50740	**0.00084**

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	**-0.00049**	0.32940	**-0.00050**	2.50740	**-0.00049**
sg13g2_or4_1	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00050**	0.32940	**-0.00050**	2.50740	**-0.00049**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00105**	0.32940	**0.00108**	2.50740	**0.00107**
sg13g2_or4_1	0.01860	**0.00106**	0.32940	**0.00108**	2.50740	**0.00107**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00044**	0.32940	**0.00043**	2.50740	**0.00046**
sg13g2_or4_1	0.01860	**0.00042**	0.32940	**0.00043**	2.50740	**0.00046**

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	**0.00105**	0.32940	**0.00108**	2.50740	**0.00107**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00106**	0.32940	**0.00108**	2.50740	**0.00107**

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	**0.00044**	0.32940	**0.00043**	2.50740	**0.00046**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00042**	0.32940	**0.00043**	2.50740	**0.00046**

SDFRRS

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00206	0.00210	0.00375	0.00183	0.00550	0.00320	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	1921.43000	2292.69000	2444.92000

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_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.20196**	0.32940	0.06480	**0.39262**	2.50740	0.30000	**0.97134**
	SET_B->Q (FR)	0.01860	0.00100	**0.08439**	0.32940	0.06480	**0.29521**	2.50740	0.30000	**0.93462**

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	**0.16669**	0.32940	0.06480	**0.33766**	2.50740	0.30000	**0.83858**
	RESET_B->Q (FF)	0.01860	0.00100	**0.13878**	0.32940	0.06480	**0.32524**	2.50740	0.30000	**0.87419**

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	**0.20196**	0.32940	0.06480	**0.39262**	2.50740	0.30000	**0.97134**

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	**0.16669**	0.32940	0.06480	**0.33766**	2.50740	0.30000	**0.83858**

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	**0.13770**	0.32940	0.06480	**0.34456**	2.50740	0.30000	**0.93791**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10910**	0.32940	0.06480	**0.33641**	2.50740	0.30000	**0.98168**

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	**0.16838**	0.32940	0.06480	**0.36560**	2.50740	0.30000	**0.85691**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.05641**	0.32940	0.06480	**0.26501**	2.50740	0.30000	**0.82845**

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	**0.13770**	0.32940	0.06480	**0.34456**	2.50740	0.30000	**0.93791**

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	**0.16838**	0.32940	0.06480	**0.36560**	2.50740	0.30000	**0.85691**

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	**-0.05868**	1.26300	1.26300	**-0.18349**	2.50740	2.50740	**-0.24793**
	setup	CLK (R)	0.01860	0.01860	**0.08558**	1.26300	1.26300	**0.19968**	2.50740	2.50740	**0.27154**

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	**-0.06602**	1.26300	1.26300	**-0.15651**	2.50740	2.50740	**-0.22137**
	setup	CLK (R)	0.01860	0.01860	**0.11737**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.32762**

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	**-0.07580**	1.26300	1.26300	**-0.21047**	2.50740	2.50740	**-0.29515**
	setup	CLK (R)	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.31286**

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	**-0.08803**	1.26300	1.26300	**-0.15651**	2.50740	2.50740	**-0.21251**
	setup	CLK (R)	0.01860	0.01860	**0.13938**	1.26300	1.26300	**0.22396**	2.50740	2.50740	**0.31877**

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	**-0.06113**	1.26300	1.26300	**-0.20238**	2.50740	2.50740	**-0.28925**
	setup	CLK (R)	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.23206**	2.50740	2.50740	**0.32762**

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	**-0.06847**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.13577**
	setup	CLK (R)	0.01860	0.01860	**0.11737**	1.26300	1.26300	**0.18079**	2.50740	2.50740	**0.24793**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.08905**	2.50740	2.50740	**0.11511**
	removal	CLK (R)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.06476**	2.50740	2.50740	**-0.07969**

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	**0.02201**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.56079**
	removal	CLK (R)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**0.06206**	2.50740	2.50740	**0.05608**
	hold	RESET_B (R)	0.01860	0.01860	**-0.05135**	1.26300	1.26300	**-0.14571**	2.50740	2.50740	**-0.20956**
	setup	RESET_B (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.18079**	2.50740	2.50740	**0.28335**

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	**0.02657**	0.32940	0.06480	**0.02886**	2.50740	0.30000	**0.05554**
	SET_B	0.01860	0.00100	**0.04924**	0.32940	0.06480	**0.12668**	2.50740	0.30000	**0.45611**

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	**0.02613**	0.32940	0.06480	**0.02843**	2.50740	0.30000	**0.05605**
	RESET_B	0.01860	0.00100	**0.05583**	0.32940	0.06480	**0.12966**	2.50740	0.30000	**0.42631**

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	**0.02657**	0.32940	0.06480	**0.02886**	2.50740	0.30000	**0.05554**

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	**0.02613**	0.32940	0.06480	**0.02843**	2.50740	0.30000	**0.05605**

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	**0.02614**	0.32940	0.06480	**0.02863**	2.50740	0.30000	**0.05624**
	RESET_B	0.01860	0.00100	**0.05583**	0.32940	0.06480	**0.13017**	2.50740	0.30000	**0.42702**

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	**0.02657**	0.32940	0.06480	**0.02867**	2.50740	0.30000	**0.05479**
	SET_B	0.01860	0.00100	**0.04919**	0.32940	0.06480	**0.12640**	2.50740	0.30000	**0.45591**

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	**0.02614**	0.32940	0.06480	**0.02863**	2.50740	0.30000	**0.05624**

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	**0.02657**	0.32940	0.06480	**0.02867**	2.50740	0.30000	**0.05479**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00688**	0.32940	**0.00804**	2.50740	**0.02681**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00724**	0.32940	**0.00858**	2.50740	**0.02721**

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	**0.01776**	0.32940	**0.01911**	2.50740	**0.04023**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00688**	0.32940	**0.00804**	2.50740	**0.02681**

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	**0.01804**	0.32940	**0.01942**	2.50740	**0.04063**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00724**	0.32940	**0.00858**	2.50740	**0.02721**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00924**	0.32940	**0.01003**	2.50740	**0.02811**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00969**	0.32940	**0.01049**	2.50740	**0.02908**

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	**0.02012**	0.32940	**0.02105**	2.50740	**0.04121**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00924**	0.32940	**0.01003**	2.50740	**0.02811**

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	**0.02523**	0.32940	**0.02569**	2.50740	**0.04650**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00969**	0.32940	**0.01049**	2.50740	**0.02908**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02175**	0.32940	**0.02412**	2.50740	**0.05034**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02328**	0.32940	**0.02586**	2.50740	**0.05131**

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	**0.02175**	0.32940	**0.02412**	2.50740	**0.05034**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02903**	0.32940	**0.03032**	2.50740	**0.05634**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.02030**	0.32940	**0.02445**	2.50740	**0.07187**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00935**	0.32940	**0.01328**	2.50740	**0.05829**

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	**0.02328**	0.32940	**0.02586**	2.50740	**0.05131**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02678**	0.32940	**0.04030**	2.50740	**0.06575**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00555**	0.32940	**0.04454**	2.50740	**0.09087**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00953**	0.32940	**0.01315**	2.50740	**0.05723**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01801**	0.32940	**0.02214**	2.50740	**0.07198**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02150**	0.32940	**0.02660**	2.50740	**0.07707**

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	**0.01792**	0.32940	**0.02210**	2.50740	**0.07177**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02324**	0.32940	**0.02737**	2.50740	**0.07706**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01801**	0.32940	**0.02214**	2.50740	**0.07198**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01791**	0.32940	**0.02210**	2.50740	**0.07176**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01727**	0.32940	**0.02146**	2.50740	**0.07121**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01800**	0.32940	**0.02214**	2.50740	**0.07198**

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	**0.01751**	0.32940	**0.02210**	2.50740	**0.07159**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.03145**	0.32940	**0.03609**	2.50740	**0.08717**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02150**	0.32940	**0.02660**	2.50740	**0.07707**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.03388**	0.32940	**0.03878**	2.50740	**0.08949**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01788**	0.32940	**0.02253**	2.50740	**0.07189**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01751**	0.32940	**0.02210**	2.50740	**0.07159**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01592**	0.32940	**0.02052**	2.50740	**0.06994**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01783**	0.32940	**0.02242**	2.50740	**0.07185**

SGCLK

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00210	0.00255	0.00535	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	1087.27000	1198.55000	1290.35000

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	**0.05026**	0.32940	0.06480	**0.23308**	2.50740	0.30000	**0.83616**

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	**0.04336**	0.32940	0.06480	**0.22147**	2.50740	0.30000	**0.77433**

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	**-0.02486**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.17092**
	setup	CLK (R)	0.01860	0.01860	**0.04370**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.31108**

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	**-0.04486**	1.26300	1.26300	**-0.17809**	2.50740	2.50740	**-0.28103**
	setup	CLK (R)	0.01860	0.01860	**0.07258**	1.26300	1.26300	**0.22936**	2.50740	2.50740	**0.36384**

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	**-0.03001**	1.26300	1.26300	**-0.15381**	2.50740	2.50740	**-0.23021**
	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	**-0.04803**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.21120**
	setup	CLK (R)	0.01860	0.01860	**0.07321**	1.26300	1.26300	**0.19158**	2.50740	2.50740	**0.32625**

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	**0.01473**	0.32940	0.06480	**0.01648**	2.50740	0.30000	**0.05006**

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	**0.00986**	0.32940	0.06480	**0.01350**	2.50740	0.30000	**0.04814**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.02924**	0.32940	**0.03344**	2.50740	**0.06564**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01699**	0.32940	**0.05090**	2.50740	**0.08344**

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	**0.02924**	0.32940	**0.03344**	2.50740	**0.06564**

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	**0.01699**	0.32940	**0.05090**	2.50740	**0.08344**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01624**	0.32940	**0.01887**	2.50740	**0.05199**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01849**	0.32940	**0.04939**	2.50740	**0.08138**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01066**	0.32940	**0.01460**	2.50740	**0.05710**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01072**	0.32940	**0.01502**	2.50740	**0.05797**

TIE0

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Footprint

Cell Name	Area
sg13g2_tielo	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_LO
sg13g2_tielo	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tielo	266.17500	266.17500	266.17500

TIE1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Footprint

Cell Name	Area
sg13g2_tiehi	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_HI
sg13g2_tiehi	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tiehi	238.39200	238.39200	238.39200

XNOR2_1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xnor2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_xnor2_1	0.00597	0.00524	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	276.75100	577.49600	766.93800

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	**0.04909**	0.32940	0.06480	**0.23331**	2.50740	0.30000	**0.83534**
	A->Y (FR)	0.01860	0.00100	**0.03826**	0.32940	0.06480	**0.38078**	2.50740	0.30000	**1.90618**
	B->Y (RR)	0.01860	0.00100	**0.04539**	0.32940	0.06480	**0.23607**	2.50740	0.30000	**0.86076**
	B->Y (FR)	0.01860	0.00100	**0.03370**	0.32940	0.06480	**0.40551**	2.50740	0.30000	**2.14918**

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	**0.04981**	0.32940	0.06480	**0.29583**	2.50740	0.30000	**1.10180**
	A->Y (RF)	0.01860	0.00100	**0.03241**	0.32940	0.06480	**0.30981**	2.50740	0.30000	**1.60007**
	B->Y (FF)	0.01860	0.00100	**0.04986**	0.32940	0.06480	**0.28675**	2.50740	0.30000	**1.07219**
	B->Y (RF)	0.01860	0.00100	**0.02711**	0.32940	0.06480	**0.30347**	2.50740	0.30000	**1.59033**

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	**0.01231**	0.32940	0.06480	**0.01480**	2.50740	0.30000	**0.04853**
	B	0.01860	0.00100	**0.01223**	0.32940	0.06480	**0.01502**	2.50740	0.30000	**0.04882**

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	**0.01075**	0.32940	0.06480	**0.01407**	2.50740	0.30000	**0.04862**
	B	0.01860	0.00100	**0.01157**	0.32940	0.06480	**0.01322**	2.50740	0.30000	**0.04744**

XOR2_1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xor2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00619	0.00540	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	427.64700	522.92600	652.79400

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	**0.04986**	0.32940	0.06480	**0.37068**	2.50740	0.30000	**1.44674**
	A->X (FR)	0.01860	0.00100	**0.04185**	0.32940	0.06480	**0.38474**	2.50740	0.30000	**1.91525**
	B->X (RR)	0.01860	0.00100	**0.05223**	0.32940	0.06480	**0.35973**	2.50740	0.30000	**1.39507**
	B->X (FR)	0.01860	0.00100	**0.03533**	0.32940	0.06480	**0.37849**	2.50740	0.30000	**1.90117**

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	**0.05956**	0.32940	0.06480	**0.22433**	2.50740	0.30000	**0.75408**
	A->X (RF)	0.01860	0.00100	**0.03042**	0.32940	0.06480	**0.30748**	2.50740	0.30000	**1.59607**
	B->X (FF)	0.01860	0.00100	**0.05468**	0.32940	0.06480	**0.23290**	2.50740	0.30000	**0.80253**
	B->X (RF)	0.01860	0.00100	**0.02667**	0.32940	0.06480	**0.32544**	2.50740	0.30000	**1.75874**

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	**0.01073**	0.32940	0.06480	**0.01356**	2.50740	0.30000	**0.04685**
	B	0.01860	0.00100	**0.01162**	0.32940	0.06480	**0.01289**	2.50740	0.30000	**0.04542**

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	**0.01341**	0.32940	0.06480	**0.01581**	2.50740	0.30000	**0.04916**
	B	0.01860	0.00100	**0.01217**	0.32940	0.06480	**0.01520**	2.50740	0.30000	**0.04848**