$sg13g2_stdcell_slow_1p08V_125C\ Library$

Cell Groups
A21OIx
A2210I
A22OI
AND2x
AND3x
AND4x
AO21x
BTLx
BUx
DECAPx
DFFRRx
DFRBPQx
DLHQ
DLHRQ
DLHR
DLLRQ
DLLR
DLY1
DLY2
DLY4
EINVINx
FILLx
GCLK

INx
ITL
KEEPSTATE
MUX2x
MUX4
NAND2B1
NAND2B2
NAND2x
NAND3B1
NAND3
NAND4
NOR2Bx
NOR2x
NOR3x
NOR4x
NP_ANT
O21AI
OR2x
OR3x
OR4x
SDFRBPQx
SDFRBPx
SDFRRS
SGCLK
TIE0
TIE1

XNOR2_1	
XOR2_1	

A210Ix



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

II	NPU'	Т	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

Call Name		Pin Cap(pf)		Max Cap(pf)
Cell Name	A1	A2	B1	Y
sg13g2_a21oi_2	0.00543	0.00564	0.00532	0.60000
sg13g2_a21oi_1	0.00282	0.00283	0.00272	0.30000

Call Name		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_a21oi_2	361.20000	878.05400	2041.52000						
sg13g2_a21oi_1	180.60800	439.03500	1020.77000						

Delay Information Delay(ns) to Y rising:

Cell Name	Timing	Delay(ns)								
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->Y (FR)	0.01860	0.00100	0.06257	0.32940	0.12960	0.78672	2.50740	0.60000	3.80449
sg13g2_a21oi_2	A2->Y (FR)	0.01860	0.00100	0.07453	0.32940	0.12960	0.79854	2.50740	0.60000	3.81448
	B1->Y (FR)	0.01860	0.00100	0.05896	0.32940	0.12960	0.79840	2.50740	0.60000	3.98540
	A1->Y (FR)	0.01860	0.00100	0.06946	0.32940	0.06480	0.78670	2.50740	0.30000	3.79911
sg13g2_a21oi_1	A2->Y (FR)	0.01860	0.00100	0.08091	0.32940	0.06480	0.79997	2.50740	0.30000	3.81668
	B1->Y (FR)	0.01860	0.00100	0.06558	0.32940	0.06480	0.79976	2.50740	0.30000	3.98812

Delay(ns) to Y falling:

Cell Name	Timing					Delay(ns)				
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_2	A1->Y (RF)	0.01860	0.00100	0.05378	0.32940	0.12960	0.66751	2.50740	0.60000	3.43307
	A2->Y (RF)	0.01860	0.00100	0.06095	0.32940	0.12960	0.66148	2.50740	0.60000	3.31311
	B1->Y (RF)	0.01860	0.00100	0.02744	0.32940	0.12960	0.46367	2.50740	0.60000	2.58923
	A1->Y (RF)	0.01860	0.00100	0.05949	0.32940	0.06480	0.66858	2.50740	0.30000	3.43242
sg13g2_a21oi_1	A2->Y (RF)	0.01860	0.00100	0.06610	0.32940	0.06480	0.66195	2.50740	0.30000	3.31278
	B1->Y (RF)	0.01860	0.00100	0.03077	0.32940	0.06480	0.46495	2.50740	0.30000	2.59177

Delay(ns) to Y rising (conditional):

C HN	Timing	***					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.05896	0.32940	0.12960	0.79840	2.50740	0.60000	3.98540
sg13g2_a21oi_2	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.04463	0.32940	0.12960	0.78429	2.50740	0.60000	3.97510
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	0.03617	0.32940	0.12960	0.63345	2.50740	0.60000	3.32778
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.06558	0.32940	0.06480	0.79976	2.50740	0.30000	3.98812
sg13g2_a21oi_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.05161	0.32940	0.06480	0.78367	2.50740	0.30000	3.96722
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	0.04129	0.32940	0.06480	0.63383	2.50740	0.30000	3.32555

Delay(ns) to Y falling (conditional):

Cell Name	Timing	When					Delay(ns)				
Cen ivanie	Arc(Dir)	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.02744	0.32940	0.12960	0.46367	2.50740	0.60000	2.58923
sg13g2_a21oi_2	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.02718	0.32940	0.12960	0.46306	2.50740	0.60000	2.58684
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	0.02693	0.32940	0.12960	0.46258	2.50740	0.60000	2.58672
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.03077	0.32940	0.06480	0.46495	2.50740	0.30000	2.59177
sg13g2_a21oi_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.03052	0.32940	0.06480	0.46434	2.50740	0.30000	2.58940
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	0.03027	0.32940	0.06480	0.46385	2.50740	0.30000	2.58911

Power Information

Internal switching power(pJ) to Y rising:

Cell Name	T4		Power(pJ)										
Centrame	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A1	0.01860	0.00100	0.00706	0.32940	0.12960	0.00704	2.50740	0.60000	0.00720			
sg13g2_a21oi_2	A2	0.01860	0.00100	0.00754	0.32940	0.12960	0.00733	2.50740	0.60000	0.00701			
	B1	0.01860	0.00100	0.00366	0.32940	0.12960	0.00382	2.50740	0.60000	0.00418			
	A1	0.01860	0.00100	0.00354	0.32940	0.06480	0.00349	2.50740	0.30000	0.00357			
sg13g2_a21oi_1	A2	0.01860	0.00100	0.00374	0.32940	0.06480	0.00359	2.50740	0.30000	0.00382			
	B1	0.01860	0.00100	0.00187	0.32940	0.06480	0.00188	2.50740	0.30000	0.00204			

Internal switching power(pJ) to Y falling:

Call Name	I4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A1	0.01860	0.00100	0.00494	0.32940	0.12960	0.00445	2.50740	0.60000	0.00422			
sg13g2_a21oi_2	A2	0.01860	0.00100	0.00741	0.32940	0.12960	0.00696	2.50740	0.60000	0.00641			
	B1	0.01860	0.00100	0.00247	0.32940	0.12960	0.00279	2.50740	0.60000	0.00246			
	A1	0.01860	0.00100	0.00276	0.32940	0.06480	0.00250	2.50740	0.30000	0.00239			
sg13g2_a21oi_1	A2	0.01860	0.00100	0.00393	0.32940	0.06480	0.00369	2.50740	0.30000	0.00345			
	B1	0.01860	0.00100	0.00157	0.32940	0.06480	0.00164	2.50740	0.30000	0.00141			

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

C H V		***					Power(pJ)				
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	0.00443	0.32940	0.12960	0.00440	2.50740	0.60000	0.00441
	B1	(!A1 * A2)	0.01860	0.00100	0.00365	0.32940	0.12960	0.00383	2.50740	0.60000	0.00394
	B1	(!A1 * !A2)	0.01860	0.00100	0.00366	0.32940	0.12960	0.00382	2.50740	0.60000	0.00418
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	0.00216	0.32940	0.06480	0.00213	2.50740	0.30000	0.00233
	B1	(!A1 * A2)	0.01860	0.00100	0.00188	0.32940	0.06480	0.00189	2.50740	0.30000	0.00224
	B1	(!A1 * !A2)	0.01860	0.00100	0.00187	0.32940	0.06480	0.00188	2.50740	0.30000	0.00204

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

Cell Name	Immut	When]	Power(pJ)				
Cen Name	Input	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	B1	(A1 * !A2)	0.01860	0.00100	0.00490	0.32940	0.12960	0.00521	2.50740	0.60000	0.00479
sg13g2_a21oi_2	B1	(!A1 * A2)	0.01860	0.00100	0.00247	0.32940	0.12960	0.00279	2.50740	0.60000	0.00246
	B1	(!A1 * !A2)	0.01860	0.00100	0.00238	0.32940	0.12960	0.00261	2.50740	0.60000	0.00229
	B1	(A1 * !A2)	0.01860	0.00100	0.00278	0.32940	0.06480	0.00286	2.50740	0.30000	0.00263
sg13g2_a21oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00157	0.32940	0.06480	0.00164	2.50740	0.30000	0.00141
	B1	(!A1 * !A2)	0.01860	0.00100	0.00152	0.32940	0.06480	0.00157	2.50740	0.30000	0.00142

A2210I



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	II	NPU	T		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
х	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)								
Cen Name	A1	A2	B1	B2	C 1	Y					
sg13g2_a221oi_1	0.00278	0.00278	0.00274	0.00281	0.00270	0.30000					

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_a221oi_1	226.42400	593.99900	1387.73000				

Delay Information Delay(ns) to Y rising:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->Y (FR)	0.01860	0.00100	0.16208	0.32940	0.06480	1.16964	2.50740	0.30000	5.08197
	A2->Y (FR)	0.01860	0.00100	0.17948	0.32940	0.06480	1.18754	2.50740	0.30000	5.09687
sg13g2_a221oi_1	B1->Y (FR)	0.01860	0.00100	0.14589	0.32940	0.06480	1.15743	2.50740	0.30000	5.23612
	B2->Y (FR)	0.01860	0.00100	0.16316	0.32940	0.06480	1.17506	2.50740	0.30000	5.25056
	C1->Y (FR)	0.01860	0.00100	0.09310	0.32940	0.06480	0.96591	2.50740	0.30000	4.64130

Delay(ns) to Y falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->Y (RF)	0.01860	0.00100	0.07933	0.32940	0.06480	0.70073	2.50740	0.30000	3.47320
	A2->Y (RF)	0.01860	0.00100	0.08562	0.32940	0.06480	0.69403	2.50740	0.30000	3.35362
sg13g2_a221oi_1	B1->Y (RF)	0.01860	0.00100	0.06939	0.32940	0.06480	0.68006	2.50740	0.30000	3.45057
_	B2->Y (RF)	0.01860	0.00100	0.07603	0.32940	0.06480	0.67348	2.50740	0.30000	3.33041
	C1->Y (RF)	0.01860	0.00100	0.03536	0.32940	0.06480	0.46945	2.50740	0.30000	2.59673

Delay(ns) to Y rising (conditional):

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

		1									
	A1->Y (FR)	(A2 * B1 * !B2 * !C1)	0.01860	0.00100	0.16208	0.32940	0.06480	1.16964	2.50740	0.30000	5.08197
	A1->Y (FR)	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.14089	0.32940	0.06480	1.14809	2.50740	0.30000	5.06447
	A1->Y (FR)	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.12502	0.32940	0.06480	0.98855	2.50740	0.30000	4.43581
	A2->Y (FR)	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.17948	0.32940	0.06480	1.18754	2.50740	0.30000	5.09687
	A2->Y (FR)	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.15832	0.32940	0.06480	1.16595	2.50740	0.30000	5.08010
	A2->Y (FR)	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.13916	0.32940	0.06480	1.00318	2.50740	0.30000	4.44699
	B1->Y (FR)	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.14589	0.32940	0.06480	1.15743	2.50740	0.30000	5.23612
	B1->Y (FR)	(!A1 * A2 * B2 *	0.01860	0.00100	0.12466	0.32940	0.06480	1.13557	2.50740	0.30000	5.21615
	B1->Y (FR)	!C1) (!A1 *!A2 *B2 *	0.01860	0.00100	0.10311	0.32940	0.06480	0.96645	2.50740	0.30000	4.51298
sg13g2_a221oi_1	B2->Y (FR)	!C1) (A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.16316	0.32940	0.06480	1.17506	2.50740	0.30000	5.25056
	B2->Y (FR)	(!A1 * A2 * B1 *	0.01860	0.00100	0.14219	0.32940	0.06480	1.15286	2.50740	0.30000	5.23123
	B2->Y (FR)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.11720	0.32940	0.06480	0.98055	2.50740	0.30000	4.52366
	C1->Y (FR)	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.08877	0.32940	0.06480	0.96190	2.50740	0.30000	4.63579
	C1->Y (FR)	(!A1 * A2 * !B1 *	0.01860	0.00100	0.07106	0.32940	0.06480	0.94381	2.50740	0.30000	4.62034
	C1->Y (FR)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.09310	0.32940	0.06480	0.96591	2.50740	0.30000	4.64130
	C1->Y (FR)	(!A1 *!A2 *!B1 *B2)	0.01860	0.00100	0.07551	0.32940	0.06480	0.94878	2.50740	0.30000	4.62968
	C1->Y (FR)	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.06164	0.32940	0.06480	0.79071	2.50740	0.30000	3.97067
		!B2)									

Delay(ns) to Y falling (conditional):

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

								1			
	A1->Y (RF)	(A2 * B1 * !B2 * !C1)	0.01860	0.00100	0.07677	0.32940	0.06480	0.69751	2.50740	0.30000	3.47239
	A1->Y (RF)	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.07606	0.32940	0.06480	0.69605	2.50740	0.30000	3.46796
	A1->Y (RF)	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.07933	0.32940	0.06480	0.70073	2.50740	0.30000	3.47320
	A2->Y (RF)	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.08307	0.32940	0.06480	0.69073	2.50740	0.30000	3.35244
	A2->Y (RF)	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.08236	0.32940	0.06480	0.68918	2.50740	0.30000	3.34811
	A2->Y (RF)	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.08562	0.32940	0.06480	0.69403	2.50740	0.30000	3.35362
	B1->Y (RF)	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.06939	0.32940	0.06480	0.68006	2.50740	0.30000	3.45057
	B1->Y (RF)	(!A1 * A2 * B2 *	0.01860	0.00100	0.06884	0.32940	0.06480	0.67857	2.50740	0.30000	3.44564
	B1->Y (RF)	!C1) (!A1 *!A2 *B2 *	0.01860	0.00100	0.06850	0.32940	0.06480	0.67781	2.50740	0.30000	3.44527
sg13g2_a221oi_1	B2->Y (RF)	!C1) (A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.07603	0.32940	0.06480	0.67348	2.50740	0.30000	3.33041
	B2->Y (RF)	(!A1 * A2 * B1 *	0.01860	0.00100	0.07544	0.32940	0.06480	0.67204	2.50740	0.30000	3.32615
	B2->Y (RF)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.07508	0.32940	0.06480	0.67121	2.50740	0.30000	3.32581
	C1->Y (RF)	!C1) (A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.03518	0.32940	0.06480	0.46942	2.50740	0.30000	2.59673
	C1->Y (RF)	(!A1 * A2 * !B1 *	0.01860	0.00100	0.03494	0.32940	0.06480	0.46879	2.50740	0.30000	2.59441
	C1->Y (RF)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.03536	0.32940	0.06480	0.46945	2.50740	0.30000	2.59673
	C1->Y (RF)	!B2) (!A1 *!A2 *!B1 *B2)	0.01860	0.00100	0.03513	0.32940	0.06480	0.46884	2.50740	0.30000	2.59441
	C1->Y (RF)	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.03493	0.32940	0.06480	0.46852	2.50740	0.30000	2.59419
		!B2)									

Power Information

Internal switching power(pJ) to Y rising:

Cell Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	0.01860	0.00100	0.00648	0.32940	0.06480	0.00639	2.50740	0.30000	0.00634
	A2	0.01860	0.00100	0.00662	0.32940	0.06480	0.00653	2.50740	0.30000	0.00648
sg13g2_a221oi_1	B1	0.01860	0.00100	0.00493	0.32940	0.06480	0.00484	2.50740	0.30000	0.00471
	B2	0.01860	0.00100	0.00504	0.32940	0.06480	0.00486	2.50740	0.30000	0.00475
	C1	0.01860	0.00100	0.00324	0.32940	0.06480	0.00321	2.50740	0.30000	0.00342

Internal switching power(pJ) to Y falling:

Cell Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	0.01860	0.00100	0.00426	0.32940	0.06480	0.00399	2.50740	0.30000	0.00378
	A2	0.01860	0.00100	0.00540	0.32940	0.06480	0.00512	2.50740	0.30000	0.00484
sg13g2_a221oi_1	B1	0.01860	0.00100	0.00285	0.32940	0.06480	0.00266	2.50740	0.30000	0.00248
_	B2	0.01860	0.00100	0.00405	0.32940	0.06480	0.00386	2.50740	0.30000	0.00360
	C1	0.01860	0.00100	0.00165	0.32940	0.06480	0.00169	2.50740	0.30000	0.00146

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

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

	A1	(A2 * B1 * !B2 * !C1)	0.01860	0.00100	0.00648	0.32940	0.06480	0.00639	2.50740	0.30000	0.00634
	A1	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.00623	0.32940	0.06480	0.00610	2.50740	0.30000	0.00615
	A1	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00759	0.32940	0.06480	0.00753	2.50740	0.30000	0.00758
	A2	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.00662	0.32940	0.06480	0.00653	2.50740	0.30000	0.00648
	A2	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.00639	0.32940	0.06480	0.00626	2.50740	0.30000	0.00634
	A2	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00775	0.32940	0.06480	0.00755	2.50740	0.30000	0.00762
	В1	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.00516	0.32940	0.06480	0.00500	2.50740	0.30000	0.00495
	B1	(!A1 * A2 * B2 * !C1)	0.01860	0.00100	0.00491	0.32940	0.06480	0.00480	2.50740	0.30000	0.00487
sg13g2_a221oi_1	В1	(!A1 *!A2 *B2 * !C1)	0.01860	0.00100	0.00493	0.32940	0.06480	0.00484	2.50740	0.30000	0.00471
	B2	(A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.00526	0.32940	0.06480	0.00508	2.50740	0.30000	0.00481
	B2	(!A1 * A2 * B1 *	0.01860	0.00100	0.00504	0.32940	0.06480	0.00487	2.50740	0.30000	0.00484
	B2	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00504	0.32940	0.06480	0.00486	2.50740	0.30000	0.00475
	C1	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.00352	0.32940	0.06480	0.00345	2.50740	0.30000	0.00338
	C1	(!A1 * A2 * !B1 *	0.01860	0.00100	0.00324	0.32940	0.06480	0.00318	2.50740	0.30000	0.00322
	C1	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00353	0.32940	0.06480	0.00344	2.50740	0.30000	0.00324
	C1	(!A1 * !A2 * !B1 * B2)	0.01860	0.00100	0.00325	0.32940	0.06480	0.00317	2.50740	0.30000	0.00332
	C1	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.00324	0.32940	0.06480	0.00321	2.50740	0.30000	0.00342
		!B2)									

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

Cell Name Input W	VV/I	Power(pJ)								
Cell Name	Input When	wnen	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last

	A1	(A2 * B1 * !B2 * !C1)	0.01860	0.00100	0.00548	0.32940	0.06480	0.00517	2.50740	0.30000	0.00496
	A1	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.00426	0.32940	0.06480	0.00399	2.50740	0.30000	0.00378
	A1	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00357	0.32940	0.06480	0.00328	2.50740	0.30000	0.00307
	A2	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.00662	0.32940	0.06480	0.00634	2.50740	0.30000	0.00603
	A2	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.00540	0.32940	0.06480	0.00512	2.50740	0.30000	0.00484
	A2	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00471	0.32940	0.06480	0.00446	2.50740	0.30000	0.00416
	В1	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.00406	0.32940	0.06480	0.00389	2.50740	0.30000	0.00366
sg13g2_a221oi_1	В1	(!A1 * A2 * B2 * !C1)	0.01860	0.00100	0.00285	0.32940	0.06480	0.00266	2.50740	0.30000	0.00248
	В1	(!A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.00282	0.32940	0.06480	0.00258	2.50740	0.30000	0.00244
	B2	(A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.00527	0.32940	0.06480	0.00509	2.50740	0.30000	0.00481
	B2	(!A1 * A2 * B1 *	0.01860	0.00100	0.00405	0.32940	0.06480	0.00386	2.50740	0.30000	0.00360
	В2	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00402	0.32940	0.06480	0.00379	2.50740	0.30000	0.00356
	C1	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.00283	0.32940	0.06480	0.00289	2.50740	0.30000	0.00271
	C1	(!A1 * A2 * !B1 *	0.01860	0.00100	0.00162	0.32940	0.06480	0.00168	2.50740	0.30000	0.00147
	C1	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00286	0.32940	0.06480	0.00291	2.50740	0.30000	0.00271
	C1	(!A1 *!A2 *!B1 *B2)	0.01860	0.00100	0.00165	0.32940	0.06480	0.00169	2.50740	0.30000	0.00146
	C1	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.00161	0.32940	0.06480	0.00163	2.50740	0.30000	0.00147
		!B2)									

A220I



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INP	UT		OUTPUT
A1	A2	B1	B2	Y
0	x	0	x	1
0	X	1	0	1
х	X	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
sg13g2_a22oi_1	10.84860

Pin Capacitance Information

Call Name		Pin C	Pin Cap(pf) Max					
Cell Name	A1	A2	B1	B2	Y			
sg13g2_a22oi_1	0.00292	0.00288	0.00285	0.00286	0.30000			

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_a22oi_1	90.96350	562.87300	1261.30000				

Delay Information Delay(ns) to Y rising:

Call Name	Timing		Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_a22oi_1	A1->Y (FR)	0.01860	0.00100	0.08106	0.32940	0.06480	0.79964	2.50740	0.30000	3.81243		
	A2->Y (FR)	0.01860	0.00100	0.09141	0.32940	0.06480	0.81002	2.50740	0.30000	3.82033		
	B1->Y (FR)	0.01860	0.00100	0.08506	0.32940	0.06480	0.81825	2.50740	0.30000	4.00364		
	B2->Y (FR)	0.01860	0.00100	0.07339	0.32940	0.06480	0.80453	2.50740	0.30000	3.98460		

Delay(ns) to Y falling:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A1->Y (RF)	0.01860	0.00100	0.06798	0.32940	0.06480	0.67822	2.50740	0.30000	3.44317	
12-2 -22-1	A2->Y (RF)	0.01860	0.00100	0.07396	0.32940	0.06480	0.67087	2.50740	0.30000	3.32191	
sg13g2_a22oi_1	B1->Y (RF)	0.01860	0.00100	0.05885	0.32940	0.06480	0.65179	2.50740	0.30000	3.30340	
	B2->Y (RF)	0.01860	0.00100	0.05147	0.32940	0.06480	0.65827	2.50740	0.30000	3.42322	

Delay(ns) to Y rising (conditional):

Call Name	Timing	XX/1					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->Y (FR)	(A2 * B1)	0.01860	0.00100	0.08106	0.32940	0.06480	0.79964	2.50740	0.30000	3.81243
	A2->Y (FR)	(A1 * B1)	0.01860	0.00100	0.09141	0.32940	0.06480	0.81002	2.50740	0.30000	3.82033
12-222-1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.08506	0.32940	0.06480	0.81825	2.50740	0.30000	4.00364
sg13g2_a22oi_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.07195	0.32940	0.06480	0.80272	2.50740	0.30000	3.98309
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.07339	0.32940	0.06480	0.80453	2.50740	0.30000	3.98460
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.06018	0.32940	0.06480	0.79180	2.50740	0.30000	3.97607

Delay(ns) to Y falling (conditional):

C.II N	Timing	XX/1					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->Y (RF)	(A2 * B1)	0.01860	0.00100	0.06798	0.32940	0.06480	0.67822	2.50740	0.30000	3.44317
	A2->Y (RF)	(A1 * B1)	0.01860	0.00100	0.07396	0.32940	0.06480	0.67087	2.50740	0.30000	3.32191
221222 2222 1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.05885	0.32940	0.06480	0.65179	2.50740	0.30000	3.30340
sg13g2_a22oi_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.05837	0.32940	0.06480	0.65036	2.50740	0.30000	3.29903
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.05147	0.32940	0.06480	0.65827	2.50740	0.30000	3.42322
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.05102	0.32940	0.06480	0.65689	2.50740	0.30000	3.41869

Power Information

Internal switching power(pJ) to Y rising:

Call Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A1	0.01860	0.00100	0.00380	0.32940	0.06480	0.00374	2.50740	0.30000	0.00358			
12-2 -22-1	A2	0.01860	0.00100	0.00391	0.32940	0.06480	0.00381	2.50740	0.30000	0.00392			
sg13g2_a22oi_1	B1	0.01860	0.00100	0.00263	0.32940	0.06480	0.00245	2.50740	0.30000	0.00239			
	B2	0.01860	0.00100	0.00244	0.32940	0.06480	0.00238	2.50740	0.30000	0.00233			

Internal switching power(pJ) to Y falling:

Cell Name	I4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A1	0.01860	0.00100	0.00404	0.32940	0.06480	0.00377	2.50740	0.30000	0.00362			
12 2 22 1	A2	0.01860	0.00100	0.00518	0.32940	0.06480	0.00493	2.50740	0.30000	0.00470			
sg13g2_a22oi_1	B1	0.01860	0.00100	0.00475	0.32940	0.06480	0.00468	2.50740	0.30000	0.00444			
	B2	0.01860	0.00100	0.00352	0.32940	0.06480	0.00351	2.50740	0.30000	0.00333			

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

CHN	T 4	***					Power(pJ)				
Cell Name	Input	t When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	(A2 * B1)	0.01860	0.00100	0.00380	0.32940	0.06480	0.00374	2.50740	0.30000	0.00358
	A2	(A1 * B1)	0.01860	0.00100	0.00391	0.32940	0.06480	0.00381	2.50740	0.30000	0.00392
12.2.22.1	B1	(A1 * !A2)	0.01860	0.00100	0.00263	0.32940	0.06480	0.00245	2.50740	0.30000	0.00239
sg13g2_a22oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00247	0.32940	0.06480	0.00238	2.50740	0.30000	0.00235
	B2	(A1 * !A2)	0.01860	0.00100	0.00244	0.32940	0.06480	0.00238	2.50740	0.30000	0.00233
	B2	(!A1 * A2)	0.01860	0.00100	0.00223	0.32940	0.06480	0.00221	2.50740	0.30000	0.00225

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

Cell Name	Immut	When]	Power(pJ)				
Cell Name	Input	Wileii	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	(A2 * B1)	0.01860	0.00100	0.00404	0.32940	0.06480	0.00377	2.50740	0.30000	0.00362
	A2	(A1 * B1)	0.01860	0.00100	0.00518	0.32940	0.06480	0.00493	2.50740	0.30000	0.00470
12-222-: 1	B1	(A1 * !A2)	0.01860	0.00100	0.00475	0.32940	0.06480	0.00468	2.50740	0.30000	0.00444
sg13g2_a22oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00352	0.32940	0.06480	0.00348	2.50740	0.30000	0.00323
,	B2	(A1 * !A2)	0.01860	0.00100	0.00352	0.32940	0.06480	0.00351	2.50740	0.30000	0.00333
	B2	(!A1 * A2)	0.01860	0.00100	0.00229	0.32940	0.06480	0.00230	2.50740	0.30000	0.00215





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INP	UT	OUTPUT
A	В	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

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	A	В	X
sg13g2_and2_2	0.00239	0.00239	0.60000
sg13g2_and2_1	0.00238	0.00237	0.30000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_and2_2	989.94900	1027.41000	1069.65000					
sg13g2_and2_1	514.62900	635.37000	854.87300					

Delay Information Delay(ns) to X rising:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_and2_2	A->X (RR)	0.01860	0.00100	0.12785	0.32940	0.12960	0.56434	2.50740	0.60000	1.95095	
	B->X (RR)	0.01860	0.00100	0.13476	0.32940	0.12960	0.56766	2.50740	0.60000	1.96804	
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	0.10276	0.32940	0.06480	0.50576	2.50740	0.30000	1.81223	
	B->X (RR)	0.01860	0.00100	0.10994	0.32940	0.06480	0.51504	2.50740	0.30000	1.84330	

Delay(ns) to X falling:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
221222 2212 2	A->X (FF)	0.01860	0.00100	0.10375	0.32940	0.12960	0.50243	2.50740	0.60000	1.72866	
sg13g2_and2_2	B->X (FF)	0.01860	0.00100	0.11073	0.32940	0.12960	0.51643	2.50740	0.60000	1.77255	
	A->X (FF)	0.01860	0.00100	0.08403	0.32940	0.06480	0.45084	2.50740	0.30000	1.59035	
sg13g2_and2_1	B->X (FF)	0.01860	0.00100	0.09137	0.32940	0.06480	0.46804	2.50740	0.30000	1.64218	

Power Information

Internal switching power(pJ) to X rising:

Call Name	Cell Name Input		Power(pJ)										
Cell Name		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12-212 2	A	0.01860	0.00100	0.00817	0.32940	0.12960	0.00864	2.50740	0.60000	0.00907			
sg13g2_and2_2	В	0.01860	0.00100	0.00919	0.32940	0.12960	0.00975	2.50740	0.60000	0.00955			
12-212 1	A	0.01860	0.00100	0.00528	0.32940	0.06480	0.00533	2.50740	0.30000	0.00679			
sg13g2_and2_1	В	0.01860	0.00100	0.00629	0.32940	0.06480	0.00634	2.50740	0.30000	0.00729			

Internal switching power(pJ) to X falling:

CHN	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
aa12a2 amd2 2	A	0.01860	0.00100	0.00735	0.32940	0.12960	0.00765	2.50740	0.60000	0.00852			
sg13g2_and2_2	В	0.01860	0.00100	0.00745	0.32940	0.12960	0.00781	2.50740	0.60000	0.00934			
aa12a2 amJ2 1	A	0.01860	0.00100	0.00459	0.32940	0.06480	0.00459	2.50740	0.30000	0.00612			
sg13g2_and2_1	В	0.01860	0.00100	0.00472	0.32940	0.06480	0.00480	2.50740	0.30000	0.00645			

AND3x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

IN	PU	J T	OUTPUT
A	В	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

Call Name		Pin Cap(pf)	Max Cap(pf)	
Cell Name	A	В	C	X
sg13g2_and3_2	0.00241	0.00236	0.00236	0.60000
sg13g2_and3_1	0.00238	0.00234	0.00235	0.30000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_and3_2	985.88600	1063.90000	1349.75000					
sg13g2_and3_1	508.20000	629.02700	1214.68000					

Delay Information Delay(ns) to X rising:

C.II N.	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A->X (RR)	0.01860	0.00100	0.17867	0.32940	0.12960	0.63373	2.50740	0.60000	2.06409	
sg13g2_and3_2	B->X (RR)	0.01860	0.00100	0.19249	0.32940	0.12960	0.64581	2.50740	0.60000	2.09429	
	C->X (RR)	0.01860	0.00100	0.19863	0.32940	0.12960	0.64304	2.50740	0.60000	2.06726	
	A->X (RR)	0.01860	0.00100	0.14363	0.32940	0.06480	0.56096	2.50740	0.30000	1.90804	
sg13g2_and3_1	B->X (RR)	0.01860	0.00100	0.15758	0.32940	0.06480	0.57714	2.50740	0.30000	1.94791	
	C->X (RR)	0.01860	0.00100	0.16375	0.32940	0.06480	0.57737	2.50740	0.30000	1.93505	

Delay(ns) to X falling:

Call Name	Coll Name Timing			Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A->X (FF)	0.01860	0.00100	0.10938	0.32940	0.12960	0.51412	2.50740	0.60000	1.75618			
sg13g2_and3_2	B->X (FF)	0.01860	0.00100	0.11693	0.32940	0.12960	0.52789	2.50740	0.60000	1.79781			
	C->X (FF)	0.01860	0.00100	0.12240	0.32940	0.12960	0.53903	2.50740	0.60000	1.82964			
	A->X (FF)	0.01860	0.00100	0.09063	0.32940	0.06480	0.46488	2.50740	0.30000	1.62343			
sg13g2_and3_1	B->X (FF)	0.01860	0.00100	0.09838	0.32940	0.06480	0.48101	2.50740	0.30000	1.67421			
	C->X (FF)	0.01860	0.00100	0.10351	0.32940	0.06480	0.49325	2.50740	0.30000	1.71155			

Power Information

Internal switching power(pJ) to X rising:

Cell Name	T .		Power(pJ)											
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
	A	0.01860	0.00100	0.00905	0.32940	0.12960	0.00943	2.50740	0.60000	0.01006				
sg13g2_and3_2	В	0.01860	0.00100	0.01003	0.32940	0.12960	0.01041	2.50740	0.60000	0.01071				
	C	0.01860	0.00100	0.01099	0.32940	0.12960	0.01149	2.50740	0.60000	0.01154				
	A	0.01860	0.00100	0.00602	0.32940	0.06480	0.00606	2.50740	0.30000	0.00723				
sg13g2_and3_1	В	0.01860	0.00100	0.00703	0.32940	0.06480	0.00714	2.50740	0.30000	0.00787				
	С	0.01860	0.00100	0.00799	0.32940	0.06480	0.00812	2.50740	0.30000	0.00850				

Internal switching power(pJ) to \boldsymbol{X} falling :

Call Name	Immust		Power(pJ)											
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
	A	0.01860	0.00100	0.00742	0.32940	0.12960	0.00769	2.50740	0.60000	0.00850				
sg13g2_and3_2	В	0.01860	0.00100	0.00755	0.32940	0.12960	0.00795	2.50740	0.60000	0.00915				
	C	0.01860	0.00100	0.00768	0.32940	0.12960	0.00810	2.50740	0.60000	0.00909				
	A	0.01860	0.00100	0.00467	0.32940	0.06480	0.00463	2.50740	0.30000	0.00612				
sg13g2_and3_1	В	0.01860	0.00100	0.00485	0.32940	0.06480	0.00484	2.50740	0.30000	0.00640				
	C	0.01860	0.00100	0.00499	0.32940	0.06480	0.00504	2.50740	0.30000	0.00651				

AND4x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INF	PUT	OUTPUT	
A	В	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		Max Cap(pf)			
	A	В	C	D	X
sg13g2_and4_2	0.00223	0.00233	0.00233	0.00233	0.60000
sg13g2_and4_1	0.00222	0.00233	0.00232	0.00233	0.30000

Cell Name	Leakage(pW)					
	Min.	Avg	Max.			
sg13g2_and4_2	986.09600	1055.54000	1709.59000			
sg13g2_and4_1	508.40700	599.26800	1574.53000			

Delay Information Delay(ns) to X rising:

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_2	A->X (RR)	0.01860	0.00100	0.22987	0.32940	0.12960	0.70149	2.50740	0.60000	2.17216
	B->X (RR)	0.01860	0.00100	0.25094	0.32940	0.12960	0.72197	2.50740	0.60000	2.20403
	C->X (RR)	0.01860	0.00100	0.26362	0.32940	0.12960	0.72727	2.50740	0.60000	2.18401
	D->X (RR)	0.01860	0.00100	0.26981	0.32940	0.12960	0.73024	2.50740	0.60000	2.15649
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	0.18492	0.32940	0.06480	0.61508	2.50740	0.30000	2.00110
	B->X (RR)	0.01860	0.00100	0.20627	0.32940	0.06480	0.63857	2.50740	0.30000	2.04086
	C->X (RR)	0.01860	0.00100	0.21891	0.32940	0.06480	0.64650	2.50740	0.30000	2.03776
	D->X (RR)	0.01860	0.00100	0.22526	0.32940	0.06480	0.65051	2.50740	0.30000	2.02090

Delay(ns) to X falling:

Cell Name	Timing	Delay(ns)								
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_2	A->X (FF)	0.01860	0.00100	0.11374	0.32940	0.12960	0.52138	2.50740	0.60000	1.76828
	B->X (FF)	0.01860	0.00100	0.12158	0.32940	0.12960	0.53467	2.50740	0.60000	1.80896
	C->X (FF)	0.01860	0.00100	0.12765	0.32940	0.12960	0.54565	2.50740	0.60000	1.84299
	D->X (FF)	0.01860	0.00100	0.13176	0.32940	0.12960	0.55492	2.50740	0.60000	1.87381
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	0.09584	0.32940	0.06480	0.47316	2.50740	0.30000	1.63743
	B->X (FF)	0.01860	0.00100	0.10385	0.32940	0.06480	0.48881	2.50740	0.30000	1.68671
	C->X (FF)	0.01860	0.00100	0.10974	0.32940	0.06480	0.50115	2.50740	0.30000	1.72248
	D->X (FF)	0.01860	0.00100	0.11345	0.32940	0.06480	0.51135	2.50740	0.30000	1.75589

Power Information

Internal switching power(pJ) to X rising:

Call Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A	0.01860	0.00100	0.00966	0.32940	0.12960	0.00970	2.50740	0.60000	0.01086
sg13g2_and4_2	В	0.01860	0.00100	0.01073	0.32940	0.12960	0.01090	2.50740	0.60000	0.01151
	C	0.01860	0.00100	0.01170	0.32940	0.12960	0.01185	2.50740	0.60000	0.01218
	D	0.01860	0.00100	0.01263	0.32940	0.12960	0.01284	2.50740	0.60000	0.01290
	A	0.01860	0.00100	0.00656	0.32940	0.06480	0.00659	2.50740	0.30000	0.00779
aa12a2 audd 1	В	0.01860	0.00100	0.00768	0.32940	0.06480	0.00781	2.50740	0.30000	0.00834
sg13g2_and4_1 -	С	0.01860	0.00100	0.00864	0.32940	0.06480	0.00876	2.50740	0.30000	0.00915
	D	0.01860	0.00100	0.00957	0.32940	0.06480	0.00962	2.50740	0.30000	0.00969

Internal switching power(pJ) to X falling:

Call Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A	0.01860	0.00100	0.00768	0.32940	0.12960	0.00801	2.50740	0.60000	0.00877			
sg13g2_and4_2	В	0.01860	0.00100	0.00778	0.32940	0.12960	0.00814	2.50740	0.60000	0.00936			
	C	0.01860	0.00100	0.00797	0.32940	0.12960	0.00838	2.50740	0.60000	0.00925			
	D	0.01860	0.00100	0.00813	0.32940	0.12960	0.00863	2.50740	0.60000	0.00951			
	A	0.01860	0.00100	0.00494	0.32940	0.06480	0.00491	2.50740	0.30000	0.00616			
aa12a2 au 44 1	В	0.01860	0.00100	0.00506	0.32940	0.06480	0.00502	2.50740	0.30000	0.00650			
sg13g2_and4_1	C	0.01860	0.00100	0.00523	0.32940	0.06480	0.00523	2.50740	0.30000	0.00675			
	D	0.01860	0.00100	0.00541	0.32940	0.06480	0.00544	2.50740	0.30000	0.00678			

AO21x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

II	NPU'	Т	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

Call Name		Pin Cap(pf)	Max Cap(pf)	
Cell Name	A1	A2	B1	X
sg13g2_a21o_2	0.00271	0.00268	0.00257	0.60000
sg13g2_a21o_1	0.00253	0.00260	0.00246	0.30000

Leakage Information

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_a21o_2	549.67600	929.31200	1228.44000				
sg13g2_a21o_1	412.48300	650.17300	1047.70000				

Delay Information Delay(ns) to X rising:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_2	A1->X (RR)	0.01860	0.00100	0.13455	0.32940	0.12960	0.57327	2.50740	0.60000	1.97124
	A2->X (RR)	0.01860	0.00100	0.14034	0.32940	0.12960	0.57458	2.50740	0.60000	1.98616
	B1->X (RR)	0.01860	0.00100	0.08377	0.32940	0.12960	0.51041	2.50740	0.60000	1.86927
	A1->X (RR)	0.01860	0.00100	0.12643	0.32940	0.06480	0.54662	2.50740	0.30000	1.91815
sg13g2_a21o_1	A2->X (RR)	0.01860	0.00100	0.13233	0.32940	0.06480	0.55056	2.50740	0.30000	1.94091
	B1->X (RR)	0.01860	0.00100	0.07938	0.32940	0.06480	0.48665	2.50740	0.30000	1.81820

Delay(ns) to X falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_2	A1->X (FF)	0.01860	0.00100	0.17641	0.32940	0.12960	0.57862	2.50740	0.60000	1.80988
	A2->X (FF)	0.01860	0.00100	0.18991	0.32940	0.12960	0.59905	2.50740	0.60000	1.85488
	B1->X (FF)	0.01860	0.00100	0.17594	0.32940	0.12960	0.59092	2.50740	0.60000	1.86756
	A1->X (FF)	0.01860	0.00100	0.14032	0.32940	0.06480	0.51359	2.50740	0.30000	1.66841
sg13g2_a21o_1	A2->X (FF)	0.01860	0.00100	0.15225	0.32940	0.06480	0.53249	2.50740	0.30000	1.71177
	B1->X (FF)	0.01860	0.00100	0.13744	0.32940	0.06480	0.51781	2.50740	0.30000	1.69801

Delay(ns) to X rising (conditional):

GUN	Timing	***					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->X (RR)	!B1	0.01860	0.00100	0.13455	0.32940	0.12960	0.57327	2.50740	0.60000	1.97124
sg13g2_a21o_2	A2->X (RR)	!B1	0.01860	0.00100	0.14034	0.32940	0.12960	0.57458	2.50740	0.60000	1.98616
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	0.08377	0.32940	0.12960	0.51041	2.50740	0.60000	1.86927
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	0.08005	0.32940	0.12960	0.49741	2.50740	0.60000	1.82092
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	0.07994	0.32940	0.12960	0.49670	2.50740	0.60000	1.82395
	A1->X (RR)	!B1	0.01860	0.00100	0.12643	0.32940	0.06480	0.54662	2.50740	0.30000	1.91815
	A2->X (RR)	!B1	0.01860	0.00100	0.13233	0.32940	0.06480	0.55056	2.50740	0.30000	1.94091
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	0.07938	0.32940	0.06480	0.48665	2.50740	0.30000	1.81820
_	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	0.07436	0.32940	0.06480	0.47199	2.50740	0.30000	1.76295
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	0.07411	0.32940	0.06480	0.47222	2.50740	0.30000	1.76677

Delay(ns) to \boldsymbol{X} falling (conditional):

G W W	Timing	****					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->X (FF)	!B1	0.01860	0.00100	0.17641	0.32940	0.12960	0.57862	2.50740	0.60000	1.80988
sg13g2_a21o_2	A2->X (FF)	!B1	0.01860	0.00100	0.18991	0.32940	0.12960	0.59905	2.50740	0.60000	1.85488
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	0.17594	0.32940	0.12960	0.59092	2.50740	0.60000	1.86756
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	0.15894	0.32940	0.12960	0.56780	2.50740	0.60000	1.81039
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	0.12665	0.32940	0.12960	0.52662	2.50740	0.60000	1.74935
	A1->X (FF)	!B1	0.01860	0.00100	0.14032	0.32940	0.06480	0.51359	2.50740	0.30000	1.66841
	A2->X (FF)	!B1	0.01860	0.00100	0.15225	0.32940	0.06480	0.53249	2.50740	0.30000	1.71177
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	0.13744	0.32940	0.06480	0.51781	2.50740	0.30000	1.69801
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	0.12274	0.32940	0.06480	0.49537	2.50740	0.30000	1.63967
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	0.09998	0.32940	0.06480	0.46626	2.50740	0.30000	1.59400

Power Information

Internal switching power(pJ) to X rising:

Call Name	T4	Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A1	0.01860	0.00100	0.00890	0.32940	0.12960	0.00925	2.50740	0.60000	0.01051	
sg13g2_a21o_2	A2	0.01860	0.00100	0.01004	0.32940	0.12960	0.01061	2.50740	0.60000	0.01108	
	B1	0.01860	0.00100	0.00801	0.32940	0.12960	0.00836	2.50740	0.60000	0.00916	
	A1	0.01860	0.00100	0.00591	0.32940	0.06480	0.00590	2.50740	0.30000	0.00741	
sg13g2_a21o_1	A2	0.01860	0.00100	0.00694	0.32940	0.06480	0.00700	2.50740	0.30000	0.00790	
	B1	0.01860	0.00100	0.00502	0.32940	0.06480	0.00501	2.50740	0.30000	0.00668	

Internal switching power(pJ) to X falling:

Call Name	In must		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A1	0.01860	0.00100	0.00941	0.32940	0.12960	0.00977	2.50740	0.60000	0.01015			
sg13g2_a21o_2	A2	0.01860	0.00100	0.00944	0.32940	0.12960	0.00997	2.50740	0.60000	0.01050			
	B1	0.01860	0.00100	0.00798	0.32940	0.12960	0.00840	2.50740	0.60000	0.00970			
	A1	0.01860	0.00100	0.00653	0.32940	0.06480	0.00659	2.50740	0.30000	0.00761			
sg13g2_a21o_1	A2	0.01860	0.00100	0.00651	0.32940	0.06480	0.00668	2.50740	0.30000	0.00765			
	B1	0.01860	0.00100	0.00514	0.32940	0.06480	0.00523	2.50740	0.30000	0.00718			

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

C H.V.		***]	Power(pJ)				
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	!B1	0.01860	0.00100	0.00890	0.32940	0.12960	0.00925	2.50740	0.60000	0.01051
	A2	!B1	0.01860	0.00100	0.01004	0.32940	0.12960	0.01061	2.50740	0.60000	0.01108
	B1	(A1 * !A2)	0.01860	0.00100	0.00923	0.32940	0.12960	0.00962	2.50740	0.60000	0.01115
sg13g2_a21o_2	B1	(!A1 * A2)	0.01860	0.00100	0.00801	0.32940	0.12960	0.00836	2.50740	0.60000	0.00916
	B1	(!A1 * !A2)	0.01860	0.00100	0.00798	0.32940	0.12960	0.00827	2.50740	0.60000	0.00935
	A1	!B1	0.01860	0.00100	0.00591	0.32940	0.06480	0.00590	2.50740	0.30000	0.00741
	A2	!B1	0.01860	0.00100	0.00694	0.32940	0.06480	0.00700	2.50740	0.30000	0.00790
	B1	(A1 * !A2)	0.01860	0.00100	0.00608	0.32940	0.06480	0.00607	2.50740	0.30000	0.00806
sg13g2_a21o_1	B1	(!A1 * A2)	0.01860	0.00100	0.00502	0.32940	0.06480	0.00501	2.50740	0.30000	0.00668
	B1	(!A1 * !A2)	0.01860	0.00100	0.00499	0.32940	0.06480	0.00495	2.50740	0.30000	0.00676

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

CHN	т .	***	Power(pJ)								
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	!B1	0.01860	0.00100	0.00941	0.32940	0.12960	0.00977	2.50740	0.60000	0.01015
	A2	!B1	0.01860	0.00100	0.00944	0.32940	0.12960	0.00997	2.50740	0.60000	0.01050
	B1	(A1 * !A2)	0.01860	0.00100	0.00814	0.32940	0.12960	0.00850	2.50740	0.60000	0.01049
sg13g2_a21o_2	B1	(!A1 * A2)	0.01860	0.00100	0.00798	0.32940	0.12960	0.00840	2.50740	0.60000	0.00970
	B1	(!A1 * !A2)	0.01860	0.00100	0.00797	0.32940	0.12960	0.00834	2.50740	0.60000	0.00982
	A1	!B1	0.01860	0.00100	0.00653	0.32940	0.06480	0.00659	2.50740	0.30000	0.00761
	A2	!B1	0.01860	0.00100	0.00651	0.32940	0.06480	0.00668	2.50740	0.30000	0.00765
	B1	(A1 * !A2)	0.01860	0.00100	0.00519	0.32940	0.06480	0.00528	2.50740	0.30000	0.00716
sg13g2_a21o_1	B1	(!A1 * A2)	0.01860	0.00100	0.00507	0.32940	0.06480	0.00521	2.50740	0.30000	0.00684
	B1	(!A1 * !A2)	0.01860	0.00100	0.00514	0.32940	0.06480	0.00523	2.50740	0.30000	0.00718

BTLx



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

II	NPUT	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	27.21600
sg13g2_ebufn_2	18.14400

Pin Capacitance Information

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	A	TE_B	Z
sg13g2_ebufn_8	0.00540	0.01657	2.40000
sg13g2_ebufn_4	0.00277	0.00983	1.20000
sg13g2_ebufn_2	0.00244	0.00598	0.60000

Leakage Information

Call Name		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_ebufn_8	1655.51000	2491.38000	4310.14000						
sg13g2_ebufn_4	1066.82000	1399.03000	2222.84000						
sg13g2_ebufn_2	765.92400	931.97300	1199.63000						

Delay Information Delay(ns) to Z rising:

G H N	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Z (RR)	0.01860	0.01630	0.10842	0.32940	0.53370	0.86029	2.50740	2.41530	3.38312
sg13g2_ebufn_8	TE_B->Z (RR)	0.01860	0.01630	0.09650	0.32940	0.53370	0.22841	2.50740	2.41530	0.56184
	TE_B->Z (FR)	0.01860	0.01630	0.05056	0.32940	0.53370	0.77468	2.50740	2.41530	3.79952
	A->Z (RR)	0.01860	0.00866	0.11208	0.32940	0.26686	0.86232	2.50740	1.20766	3.38746
sg13g2_ebufn_4	TE_B->Z (RR)	0.01860	0.00866	0.07759	0.32940	0.26686	0.18162	2.50740	1.20766	0.40686
	TE_B->Z (FR)	0.01860	0.00866	0.05126	0.32940	0.26686	0.77325	2.50740	1.20766	3.79483
	A->Z (RR)	0.01860	0.00486	0.09469	0.32940	0.13346	0.81569	2.50740	0.60386	3.25655
sg13g2_ebufn_2	TE_B->Z (RR)	0.01860	0.00486	0.06712	0.32940	0.13346	0.15479	2.50740	0.60386	0.33849
	TE_B->Z (FR)	0.01860	0.00486	0.05123	0.32940	0.13346	0.76910	2.50740	0.60386	3.77927

Delay(ns) to Z falling:

C H V	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02933	0.12395	0.32940	0.54673	0.73373	2.50740	2.42833	2.71459
	TE_B->Z (RF)	0.01860	0.02933	0.04236	0.32940	0.54673	0.03438	2.50740	2.42833	0.03633
	TE_B->Z (FF)	0.01860	0.02933	0.15348	0.32940	0.54673	1.12901	2.50740	2.42833	4.47239
	A->Z (FF)	0.01860	0.01542	0.12809	0.32940	0.27362	0.73728	2.50740	1.21442	2.72103
sg13g2_ebufn_4	TE_B->Z (RF)	0.01860	0.01542	0.04123	0.32940	0.27362	0.03380	2.50740	1.21442	0.03400
	TE_B->Z (FF)	0.01860	0.01542	0.11734	0.32940	0.27362	1.06138	2.50740	1.21442	4.29159
	A->Z (FF)	0.01860	0.00838	0.09838	0.32940	0.13698	0.67917	2.50740	0.60738	2.56529
sg13g2_ebufn_2	TE_B->Z (RF)	0.01860	0.00838	0.04000	0.32940	0.13698	0.03375	2.50740	0.60738	0.03599
	TE_B->Z (FF)	0.01860	0.00838	0.09809	0.32940	0.13698	1.01508	2.50740	0.60738	4.17739

Power Information

Internal switching power(pJ) to Z rising:

Cell Name Input	T4	Power(pJ)									
	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
12-2 -b6- 0	A	0.01860	0.01630	0.01302	0.32940	0.53370	0.01699	2.50740	2.41530	0.01682	
sg13g2_ebufn_8	TE_B	0.01860	0.01630	0.00846	0.32940	0.53370	0.00739	2.50740	2.41530	0.00874	
12.2.1.6.4	A	0.01860	0.00866	0.00662	0.32940	0.26686	0.00834	2.50740	1.20766	0.00809	
sg13g2_ebufn_4	TE_B	0.01860	0.00866	0.00408	0.32940	0.26686	0.00364	2.50740	1.20766	0.00421	
12-2 -hf- 2	A	0.01860	0.00486	0.00364	0.32940	0.13346	0.00414	2.50740	0.60386	0.00361	
sg13g2_ebufn_2	TE_B	0.01860	0.00486	0.00206	0.32940	0.13346	0.00181	2.50740	0.60386	0.00223	

Internal switching power(pJ) to Z falling:

Cell Name	T4		Power(pJ)									
Cen wante Impu	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
221222 shufu 0	A	0.01860	0.02933	0.02384	0.32940	0.54673	0.02713	2.50740	2.42833	0.02147		
sg13g2_ebufn_8	TE_B	0.01860	0.02933	0.00954	0.32940	0.54673	0.10182	2.50740	2.42833	0.45791		
12-2 -b6- 4	A	0.01860	0.01542	0.01195	0.32940	0.27362	0.01363	2.50740	1.21442	0.01101		
sg13g2_ebufn_4	TE_B	0.01860	0.01542	0.00477	0.32940	0.27362	0.05357	2.50740	1.21442	0.23416		
221222 shufu 2	A	0.01860	0.00838	0.00605	0.32940	0.13698	0.00689	2.50740	0.60738	0.00519		
sg13g2_ebufn_2	TE_B	0.01860	0.00838	0.00254	0.32940	0.13698	0.02822	2.50740	0.60738	0.11936		

Passive power(pJ) for A rising:

Cell Name	Power(pJ)										
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_ebufn_8	0.01860	0.02325	0.32940	0.02279	2.50740	0.02863					
sg13g2_ebufn_4	0.01860	0.01187	0.32940	0.01161	2.50740	0.01448					
sg13g2_ebufn_2	0.01860	0.00648	0.32940	0.00630	2.50740	0.00896					

Passive power(pJ) for A falling:

Cell Name	Power(pJ)										
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_ebufn_8	0.01860	0.00817	0.32940	0.00788	2.50740	0.01360					
sg13g2_ebufn_4	0.01860	0.00437	0.32940	0.00421	2.50740	0.00701					
sg13g2_ebufn_2	0.01860	0.00277	0.32940	0.00268	2.50740	0.00528					

Passive power(pJ) for TE_B rising:

Call Name		Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_ebufn_8	0.01860	-0.00230	0.32940	-0.00353	2.50740	-0.00163					
sg13g2_ebufn_4	0.01860	-0.00018	0.32940	-0.00101	2.50740	0.00158					
sg13g2_ebufn_2	0.01860	0.00052	0.32940	0.00004	2.50740	0.00255					

Passive power(pJ) for TE_B falling :

Call Massa	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_ebufn_8	0.01860	0.03612	0.32940	0.03601	2.50740	0.03843			
sg13g2_ebufn_4	0.01860	0.01902	0.32940	0.01879	2.50740	0.02162			
sg13g2_ebufn_2	0.01860	0.00994	0.32940	0.00986	2.50740	0.01251			





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_buf_16	0.01592	4.80000
sg13g2_buf_8	0.00800	2.40000
sg13g2_buf_4	0.00346	1.20000
sg13g2_buf_2	0.00245	0.60000
sg13g2_buf_1	0.00212	0.30000

Leakage Information

Call Name		Leakage(pW)	
Cell Name	Min.	Avg	Max.
sg13g2_buf_16	5028.76000	6741.44000	8454.12000
sg13g2_buf_8	2514.38000	3370.78000	4227.19000
sg13g2_buf_4	1257.51000	1653.20000	2048.90000
sg13g2_buf_2	697.53300	882.33600	1067.14000
sg13g2_buf_1	494.46400	531.71200	568.96000

Delay Information Delay(ns) to X rising:

Call Name	Timing		Delay(ns)							
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_16	A->X (RR)	0.01860	0.00100	0.08307	0.32940	1.03680	0.51319	2.50740	4.80000	1.87814
sg13g2_buf_8	A->X (RR)	0.01860	0.00100	0.08349	0.32940	0.51840	0.51240	2.50740	2.40000	1.87759
sg13g2_buf_4	A->X (RR)	0.01860	0.00100	0.10818	0.32940	0.25920	0.55914	2.50740	1.20000	2.02420
sg13g2_buf_2	A->X (RR)	0.01860	0.00100	0.08429	0.32940	0.12960	0.50816	2.50740	0.60000	1.87111
sg13g2_buf_1	A->X (RR)	0.01860	0.00100	0.07442	0.32940	0.06480	0.47582	2.50740	0.30000	1.78402

Delay(ns) to X falling:

Call Name	Timing		Delay(ns)							
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_16	A->X (FF)	0.01860	0.00100	0.09257	0.32940	1.03680	0.48960	2.50740	4.80000	1.68955
sg13g2_buf_8	A->X (FF)	0.01860	0.00100	0.09297	0.32940	0.51840	0.48999	2.50740	2.40000	1.69139
sg13g2_buf_4	A->X (FF)	0.01860	0.00100	0.09177	0.32940	0.25920	0.48594	2.50740	1.20000	1.66701
sg13g2_buf_2	A->X (FF)	0.01860	0.00100	0.09027	0.32940	0.12960	0.47658	2.50740	0.60000	1.65333
sg13g2_buf_1	A->X (FF)	0.01860	0.00100	0.07816	0.32940	0.06480	0.43896	2.50740	0.30000	1.55167

Power Information

Internal switching power(pJ) to X rising:

Call Name	T4		Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_buf_16	A	0.01860	0.00100	0.05798	0.32940	1.03680	0.06160	2.50740	4.80000	0.06576	
sg13g2_buf_8	A	0.01860	0.00100	0.02922	0.32940	0.51840	0.03069	2.50740	2.40000	0.03246	
sg13g2_buf_4	A	0.01860	0.00100	0.01407	0.32940	0.25920	0.01499	2.50740	1.20000	0.01607	
sg13g2_buf_2	A	0.01860	0.00100	0.00774	0.32940	0.12960	0.00803	2.50740	0.60000	0.00883	
sg13g2_buf_1	A	0.01860	0.00100	0.00464	0.32940	0.06480	0.00465	2.50740	0.30000	0.00609	

Internal switching power(pJ) to X falling:

CHN	T .		Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_buf_16	A	0.01860	0.00100	0.05602	0.32940	1.03680	0.06003	2.50740	4.80000	0.06924	
sg13g2_buf_8	A	0.01860	0.00100	0.02821	0.32940	0.51840	0.03020	2.50740	2.40000	0.03283	
sg13g2_buf_4	A	0.01860	0.00100	0.01422	0.32940	0.25920	0.01514	2.50740	1.20000	0.01636	
sg13g2_buf_2	A	0.01860	0.00100	0.00752	0.32940	0.12960	0.00792	2.50740	0.60000	0.00929	
sg13g2_buf_1	A	0.01860	0.00100	0.00456	0.32940	0.06480	0.00461	2.50740	0.30000	0.00627	





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Footprint

Cell Name	Area
sg13g2_decap_4	7.25760
sg13g2_decap_8	12.70080

Pin Capacitance Information Leakage Information

Cell Name		Leakage(pW)						
Cen Name	Min.	Avg	Max.					
sg13g2_decap_4	98.64300	98.64300	98.64300					
sg13g2_decap_8	197.30100	197.30100	197.30100					

DFFRRx



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INPUT		OU	TPUT
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	52.61760

Pin Capacitance Information

Cell Name		Pin Cap(pf)	Max Cap(pf)			
Cen Name	D	RESET_B	CLK	Q	Q_N	
sg13g2_dfrbp_2	0.00147	0.00483	0.00262	0.60000	0.60000	
sg13g2_dfrbp_1	0.00146	0.00478	0.00261	0.30000	0.30000	

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dfrbp_2	2762.67000	3213.90000	3739.28000					
sg13g2_dfrbp_1	2173.50000	2633.71000	3177.04000					

Delay Information Delay(ns) to Q rising:

Call Name	Timing		Delay(ns)										
Cell Name Ar	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_dfrbp_2	CLK->Q (RR)	0.01860	0.00100	0.37513	0.32940	0.12960	0.77017	2.50740	0.60000	2.13655			
sg13g2_dfrbp_1	CLK->Q (RR)	0.01860	0.00100	0.29344	0.32940	0.06480	0.69671	2.50740	0.30000	2.05722			

Delay(ns) to Q falling:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	CLK->Q (RF)	0.01860	0.00100	0.32730	0.32940	0.12960	0.69555	2.50740	0.60000	1.87746	
sg13g2_dfrbp_2	RESET_B->Q (FF)	0.01860	0.00100	0.43690	0.32940	0.12960	0.83761	2.50740	0.60000	2.22950	
	CLK->Q (RF)	0.01860	0.00100	0.26992	0.32940	0.06480	0.63832	2.50740	0.30000	1.81466	
sg13g2_dfrbp_1	RESET_B->Q (FF)	0.01860	0.00100	0.37912	0.32940	0.06480	0.78009	2.50740	0.30000	2.16813	

Delay(ns) to Q_N rising:

Call Name	T:: A (D:)		Delay(ns)									
Cell Name	Timing Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dfrbp_2 sg13g2_dfrbp_1	CLK->Q_N (RR)	0.01860	0.00100	0.21746	0.32940	0.12960	0.67804	2.50740	0.60000	2.01061		
	RESET_B->Q_N (FR)	0.01860	0.00100	0.32943	0.32940	0.12960	0.81746	2.50740	0.60000	2.35980		
	CLK->Q_N (RR)	0.01860	0.00100	0.21024	0.32940	0.06480	0.65492	2.50740	0.30000	1.98470		
	RESET_B->Q_N (FR)	0.01860	0.00100	0.32030	0.32940	0.06480	0.79349	2.50740	0.30000	2.33570		

Delay(ns) to Q_N falling:

Call Name	Timing		Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_dfrbp_2	CLK->Q_N (RF)	0.01860	0.00100	0.24237	0.32940	0.12960	0.70726	2.50740	0.60000	1.92516			
sg13g2_dfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	0.22530	0.32940	0.06480	0.66698	2.50740	0.30000	1.88256			

Constraint Information

Constraints(ns) for D rising:

	T:	Ref		Constraint(ns)									
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
12-2 df-h 2	hold	CLK (R)	0.01860	0.01860	-0.09292	1.26300	1.26300	-0.26984	2.50740	2.50740	-0.36009		
sg13g2_dfrbp_2	setup	CLK (R)	0.01860	0.01860	0.18828	1.26300	1.26300	0.38856	2.50740	2.50740	0.49586		
12 2 16 1 1	hold	CLK (R)	0.01860	0.01860	-0.09292	1.26300	1.26300	-0.27523	2.50740	2.50740	-0.36304		
sg13g2_dfrbp_1	setup	CLK (R)	0.01860	0.01860	0.18828	1.26300	1.26300	0.38856	2.50740	2.50740	0.49586		

Constraints(ns) for D falling:

	Timing Ref		Constraint(ns)									
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
12.2 16.1 2	hold	CLK (R)	0.01860	0.01860	-0.04646	1.26300	1.26300	-0.16730	2.50740	2.50740	-0.25973	
sg13g2_dfrbp_2	setup	CLK (R)	0.01860	0.01860	0.18339	1.26300	1.26300	0.33460	2.50740	2.50740	0.45749	
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.04646	1.26300	1.26300	-0.17269	2.50740	2.50740	-0.25973	
sg13g2_dfrbp_1	setup	CLK (R)	0.01860	0.01860	0.18339	1.26300	1.26300	0.33190	2.50740	2.50740	0.45454	

Constraints(ns) for RESET_B rising:

	Timing Ref Check Pin(trans)		Constraint(ns)										
Cell Name			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
12.2 16.1 2	recovery	CLK (R)	0.01860	0.01860	0.20051	1.26300	1.26300	0.41285	2.50740	2.50740	0.55489		
sg13g2_dfrbp_2	removal	CLK (R)	0.01860	0.01860	-0.17116	1.26300	1.26300	-0.38047	2.50740	2.50740	-0.51652		
12-2 Je.h. 1	recovery	CLK (R)	0.01860	0.01860	0.20051	1.26300	1.26300	0.41015	2.50740	2.50740	0.55489		
sg13g2_dfrbp_1	removal	CLK (R)	0.01860	0.01860	-0.17116	1.26300	1.26300	-0.37777	2.50740	2.50740	-0.51357		

Constraints(ns) for RESET_B falling:

		Ref Pin(trans)	Constraint(ns)								
Cell Name	me Timing Check		Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_2	min_pulse_width	RESET_B	0.01860	0.00000	0.17273	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818
sg13g2_dfrbp_1	min_pulse_width	RESET_B	0.01860	0.00000	0.16953	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for CLK rising:

Cell Name	Timing Check	Ref Pin(trans)		Constraint(ns)									
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dfrbp_2	min_pulse_width	CLK ()	0.01860	0.00000	0.21439	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_dfrbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.17593	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

$Constraints (ns) \ for \ CLK \ falling:$

	Timing Check	Pin(trans)		Constraint(ns)								
Cell Name			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
sg13g2_dfrbp_2	min_pulse_width	CLK ()	0.01860	0.00000	0.21439	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	
sg13g2_dfrbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.21439	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Power Information

Internal switching power(pJ) to Q rising:

Call Name	T4		Power(pJ)									
Cell Name	ame Input		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dfrbp_2	CLK	0.01860	0.00100	0.02918	0.32940	0.12960	0.10515	2.50740	0.60000	0.38177		
sg13g2_dfrbp_1	CLK	0.01860	0.00100	0.02391	0.32940	0.06480	0.06130	2.50740	0.30000	0.20118		

Internal switching power(pJ) to Q falling:

CHN	T 4		Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
12 2 16 1 2	CLK	0.01860	0.00100	0.02976	0.32940	0.12960	0.10598	2.50740	0.60000	0.38301		
sg13g2_dfrbp_2	RESET_B	0.01860	0.00100	0.02217	0.32940	0.12960	0.09881	2.50740	0.60000	0.37201		
12-2 Jf-h 1	CLK	0.01860	0.00100	0.02453	0.32940	0.06480	0.06202	2.50740	0.30000	0.20245		
sg13g2_dfrbp_1	RESET_B	0.01860	0.00100	0.01687	0.32940	0.06480	0.05461	2.50740	0.30000	0.19204		

Internal switching power(pJ) to Q_N rising:

Cell Name	T4		Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
42.4.10.1.4	CLK	0.01860	0.00100	0.02977	0.32940	0.12960	0.10601	2.50740	0.60000	0.38326		
sg13g2_dfrbp_2	RESET_B	0.01860	0.00100	0.02220	0.32940	0.12960	0.09841	2.50740	0.60000	0.37339		
12.2 16.1 1	CLK	0.01860	0.00100	0.02452	0.32940	0.06480	0.06215	2.50740	0.30000	0.20237		
sg13g2_dfrbp_1	RESET_B	0.01860	0.00100	0.01687	0.32940	0.06480	0.05452	2.50740	0.30000	0.19255		

Internal switching power(pJ) to Q_N falling:

Cell Name	I4		Power(pJ)									
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dfrbp_2	CLK	0.01860	0.00100	0.02918	0.32940	0.12960	0.10512	2.50740	0.60000	0.38165		
sg13g2_dfrbp_1	CLK	0.01860	0.00100	0.02391	0.32940	0.06480	0.06129	2.50740	0.30000	0.20128		

Passive power(pJ) for D rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dfrbp_2	0.01860	0.00145	0.32940	0.00136	2.50740	0.00250				
sg13g2_dfrbp_1	0.01860	0.00145	0.32940	0.00136	2.50740	0.00248				

Passive power(pJ) for D falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dfrbp_2	0.01860	0.00110	0.32940	0.00099	2.50740	0.00210				
sg13g2_dfrbp_1	0.01860	0.00109	0.32940	0.00098	2.50740	0.00210				

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

Call Name	Wilson			Powe	er(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	CLK	0.01860	0.00145	0.32940	0.00136	2.50740	0.00250
sg13g2_dfrbp_2	(!CLK * RESET_B)	0.01860	0.00944	0.32940	0.00937	2.50740	0.01040
	(!CLK * !RESET_B)	0.01860	-0.00004	0.32940	-0.00005	2.50740	-0.00005
	CLK	0.01860	0.00145	0.32940	0.00136	2.50740	0.00248
sg13g2_dfrbp_1	(!CLK * RESET_B)	0.01860	0.00949	0.32940	0.00937	2.50740	0.01041
	(!CLK * !RESET_B)	0.01860	-0.00005	0.32940	-0.00005	2.50740	-0.00005

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

Call Name	When			Powe	r(pJ)		
Cell Name	when	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	CLK	0.01860	0.00110	0.32940	0.00099	2.50740	0.00210
sg13g2_dfrbp_2	(!CLK * RESET_B)	0.01860	0.00713	0.32940	0.00697	2.50740	0.00808
	(!CLK * !RESET_B)	0.01860	0.00004	0.32940	0.00005	2.50740	0.00005
	CLK	0.01860	0.00109	0.32940	0.00098	2.50740	0.00210
sg13g2_dfrbp_1	(!CLK * RESET_B)	0.01860	0.00711	0.32940	0.00697	2.50740	0.00806
	(!CLK * !RESET_B)	0.01860	0.00005	0.32940	0.00005	2.50740	0.00005

Passive power(pJ) for RESET_B rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dfrbp_2	0.01860	0.00286	0.32940	0.00274	2.50740	0.00346				
sg13g2_dfrbp_1	0.01860	0.00283	0.32940	0.00271	2.50740	0.00343				

Passive power(pJ) for RESET_B falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dfrbp_2	0.01860	0.00746	0.32940	0.00698	2.50740	0.00810				
sg13g2_dfrbp_1	0.01860	0.00747	0.32940	0.00700	2.50740	0.00811				

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

Call Name	XX71			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(CLK * D * !Q * Q_N)	0.01860	0.00286	0.32940	0.00274	2.50740	0.00346
sg13g2_dfrbp_2	(CLK * !D * !Q * Q_N)	0.01860	0.00095	0.32940	0.00095	2.50740	0.00096
	(!CLK * D * !Q * Q_N)	0.01860	0.01117	0.32940	0.01093	2.50740	0.01191
	(!CLK * !D * !Q * Q_N)	0.01860	0.00091	0.32940	0.00091	2.50740	0.00092
	(CLK * D * !Q * Q_N)	0.01860	0.00283	0.32940	0.00271	2.50740	0.00343
callad dfuhn 1	(CLK * !D * !Q * Q_N)	0.01860	0.00093	0.32940	0.00092	2.50740	0.00093
sg13g2_dfrbp_1	(!CLK * D * !Q * Q_N)	0.01860	0.01116	0.32940	0.01092	2.50740	0.01190
	(!CLK * !D * !Q * Q_N)	0.01860	0.00088	0.32940	0.00088	2.50740	0.00088

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

CHN	***			Powe	er(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(CLK * D * !Q * Q_N)	0.01860	0.02923	0.32940	0.02856	2.50740	0.03109
sg13g2_dfrbp_2	(CLK * !D * !Q * Q_N)	0.01860	-0.00044	0.32940	-0.00060	2.50740	-0.00066
	(!CLK * D * !Q * Q_N)	0.01860	0.00746	0.32940	0.00698	2.50740	0.00810
	(!CLK * !D * !Q * Q_N)	0.01860	-0.00066	0.32940	-0.00079	2.50740	-0.00084
	(CLK * D * !Q * Q_N)	0.01860	0.02392	0.32940	0.02322	2.50740	0.02571
12-2 Jf.L. 1	(CLK * !D * !Q * Q_N)	0.01860	-0.00041	0.32940	-0.00057	2.50740	-0.00063
sg13g2_dfrbp_1	(!CLK * D * !Q * Q_N)	0.01860	0.00747	0.32940	0.00700	2.50740	0.00811
	(!CLK * !D * !Q * Q_N)	0.01860	-0.00063	0.32940	-0.00076	2.50740	-0.00081

Passive power(pJ) for CLK rising :

Cell Name			Powe	r(pJ)		
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_2	0.01860	0.00925	0.32940	0.00883	2.50740	0.01189
sg13g2_dfrbp_1	0.01860	0.00889	0.32940	0.00847	2.50740	0.01154

Passive power(pJ) for CLK falling:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dfrbp_2	0.01860	0.01671	0.32940	0.01628	2.50740	0.01915			
sg13g2_dfrbp_1	0.01860	0.01675	0.32940	0.01632	2.50740	0.01918			

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

Call Name	XX/I			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(D * RESET_B * Q * !Q_N)	0.01860	0.00894	0.32940	0.00851	2.50740	0.01156
sg13g2_dfrbp_2	(D * !RESET_B * !Q * Q_N)	0.01860	0.00937	0.32940	0.00895	2.50740	0.01200
	(!D * RESET_B * !Q * Q_N)	0.01860	0.00886	0.32940	0.00842	2.50740	0.01151
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.00925	0.32940	0.00883	2.50740	0.01189
	(D * RESET_B * Q * !Q_N)	0.01860	0.00889	0.32940	0.00847	2.50740	0.01154
201202 dfuhr 1	(D * !RESET_B * !Q * Q_N)	0.01860	0.00928	0.32940	0.00887	2.50740	0.01193
sg13g2_dfrbp_1	(!D * RESET_B * !Q * Q_N)	0.01860	0.00877	0.32940	0.00835	2.50740	0.01143
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.00916	0.32940	0.00876	2.50740	0.01181

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

Call Name	XX71			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(D * RESET_B * Q * !Q_N)	0.01860	0.01796	0.32940	0.01753	2.50740	0.02039
	(D * RESET_B * !Q * Q_N)	0.01860	0.01671	0.32940	0.01628	2.50740	0.01915
sg13g2_dfrbp_2	(D * !RESET_B * !Q * Q_N)	0.01860	0.00870	0.32940	0.00839	2.50740	0.01128
	(!D * RESET_B * Q * !Q_N)	0.01860	0.02678	0.32940	0.02952	2.50740	0.03220
	(!D * RESET_B * !Q * Q_N)	0.01860	0.00864	0.32940	0.00830	2.50740	0.01122
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.00867	0.32940	0.00834	2.50740	0.01124
	(D * RESET_B * Q * !Q_N)	0.01860	0.01774	0.32940	0.01730	2.50740	0.02016
	(D * RESET_B * !Q * Q_N)	0.01860	0.01675	0.32940	0.01632	2.50740	0.01918
sg13g2_dfrbp_1	(D * !RESET_B * !Q * Q_N)	0.01860	0.00873	0.32940	0.00839	2.50740	0.01133
sg13g2_unvp_1	(!D * RESET_B * Q * !Q_N)	0.01860	0.02746	0.32940	0.02392	2.50740	0.02673
	(!D * RESET_B * !Q * Q_N)	0.01860	0.00865	0.32940	0.00833	2.50740	0.01126
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.00870	0.32940	0.00837	2.50740	0.01130

DFRBPQx



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbpq_2	50.80320
sg13g2_dfrbpq_1	48.98880

Pin Capacitance Information

Cell Name		Max Cap(pf)		
	D	RESET_B	CLK	Q
sg13g2_dfrbpq_2	0.00135	0.00479	0.00259	0.60000
sg13g2_dfrbpq_1	0.00135	0.00474	0.00259	0.30000

Leakage Information

Cell Name	Leakage(pW)						
	Min.	Avg	Max.				
sg13g2_dfrbpq_2	2492.35000	2715.21000	3354.76000				
sg13g2_dfrbpq_1	2038.20000	2384.26000	2900.60000				

Delay Information Delay(ns) to Q rising:

Cell Name	Timing	Delay(ns)										
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dfrbpq_2	CLK->Q (RR)	0.01860	0.00100	0.25919	0.32940	0.12960	0.68285	2.50740	0.60000	2.03735		
sg13g2_dfrbpq_1	CLK->Q (RR)	0.01860	0.00100	0.24169	0.32940	0.06480	0.65649	2.50740	0.30000	2.01037		

Delay(ns) to Q falling:

Cell Name	Timing	Delay(ns)								
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_2	CLK->Q (RF)	0.01860	0.00100	0.25896	0.32940	0.12960	0.64506	2.50740	0.60000	1.81931
	RESET_B->Q (FF)	0.01860	0.00100	0.36264	0.32940	0.12960	0.78093	2.50740	0.60000	2.16616
	CLK->Q (RF)	0.01860	0.00100	0.24074	0.32940	0.06480	0.61535	2.50740	0.30000	1.78847
sg13g2_dfrbpq_1	RESET_B->Q (FF)	0.01860	0.00100	0.34653	0.32940	0.06480	0.75353	2.50740	0.30000	2.13913

Constraint Information

Constraints(ns) for D rising:

	TD:	Ref				Co	onstraint(ı	ns)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
	hold	CLK (R)	0.01860	0.01860	-0.10025	1.26300	1.26300	-0.28333	2.50740	2.50740	-0.37484
sg13g2_dfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.39126	2.50740	2.50740	0.50767
12.2.16.1	hold	CLK (R)	0.01860	0.01860	-0.09781	1.26300	1.26300	-0.28333	2.50740	2.50740	-0.37484
sg13g2_dfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.38856	2.50740	2.50740	0.50176

Constraints(ns) for D falling:

	T:	Ref		Constraint(ns)									
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
42.4.10.1	hold	CLK (R)	0.01860	0.01860	-0.04890	1.26300	1.26300	-0.17269	2.50740	2.50740	-0.25383		
sg13g2_dfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.17850	1.26300	1.26300	0.32920	2.50740	2.50740	0.45159		
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.04890	1.26300	1.26300	-0.17539	2.50740	2.50740	-0.25678		
sg13g2_dfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.17850	1.26300	1.26300	0.32920	2.50740	2.50740	0.45159		

Constraints(ns) for RESET_B rising:

	Timing	Ref				Co	onstraint(r	ns)			
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12 2 16 1 2	recovery	CLK (R)	0.01860	0.01860	0.20051	1.26300	1.26300	0.41285	2.50740	2.50740	0.56374
sg13g2_dfrbpq_2	removal	CLK (R)	0.01860	0.01860	-0.16627	1.26300	1.26300	-0.37507	2.50740	2.50740	-0.50767
12.2 16.1 1	recovery	CLK (R)	0.01860	0.01860	0.20295	1.26300	1.26300	0.41015	2.50740	2.50740	0.56079
sg13g2_dfrbpq_1	removal	CLK (R)	0.01860	0.01860	-0.16627	1.26300	1.26300	-0.37507	2.50740	2.50740	-0.51062

Constraints(ns) for RESET_B falling:

		Ref Pin(trans)		Constraint(ns)									
Cell Name	Timing Check		Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dfrbpq_2	min_pulse_width	RESET_B	0.01860	0.00000	0.16632	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_dfrbpq_1	min_pulse_width	RESET_B	0.01860	0.00000	0.16632	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Constraints(ns) for CLK rising:

Cell Name	Timing Check	D-f		Constraint(ns)										
		Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last			
sg13g2_dfrbpq_2	min_pulse_width	CLK ()	0.01860	0.00000	0.14389	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818			
sg13g2_dfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.14389	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818			

Constraints(ns) for CLK falling:

Cell Name	Timing Check	Ref Pin(trans)		Constraint(ns)									
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dfrbpq_2	min_pulse_width	CLK ()	0.01860	0.00000	0.21439	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_dfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.21439	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Power Information

Internal switching power(pJ) to Q rising:

Cell Name Input	T4		Power(pJ)									
	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	0.02249	0.32940	0.12960	0.02268	2.50740	0.60000	0.02505		
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	0.02000	0.32940	0.06480	0.01988	2.50740	0.30000	0.02257		

Internal switching power(pJ) to Q falling:

Cell Name	T4	Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
ag12g2 dfubng 2	CLK	0.01860	0.00100	0.02306	0.32940	0.12960	0.02367	2.50740	0.60000	0.02709	
sg13g2_dfrbpq_2	RESET_B	0.01860	0.00100	0.01519	0.32940	0.12960	0.01587	2.50740	0.60000	0.01661	
ag12g2 dfubng 1	CLK	0.01860	0.00100	0.02069	0.32940	0.06480	0.02081	2.50740	0.30000	0.02418	
sg13g2_dfrbpq_1	RESET_B	0.01860	0.00100	0.01290	0.32940	0.06480	0.01303	2.50740	0.30000	0.01409	

Passive power(pJ) for D rising:

Call Manna		Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dfrbpq_2	0.01860	0.00145	0.32940	0.00136	2.50740	0.00250					
sg13g2_dfrbpq_1	0.01860	0.00145	0.32940	0.00136	2.50740	0.00249					

Passive power(pJ) for D falling:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dfrbpq_2	0.01860	0.00110	0.32940	0.00099	2.50740	0.00210					
sg13g2_dfrbpq_1	0.01860	0.00109	0.32940	0.00098	2.50740	0.00210					

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

Call Name	Wilson			Powe	er(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	CLK	0.01860	0.00145	0.32940	0.00136	2.50740	0.00250
sg13g2_dfrbpq_2	(!CLK * RESET_B)	0.01860	0.00945	0.32940	0.00936	2.50740	0.01040
	(!CLK * !RESET_B)	0.01860	-0.00004	0.32940	-0.00005	2.50740	-0.00005
	CLK	0.01860	0.00145	0.32940	0.00136	2.50740	0.00249
sg13g2_dfrbpq_1	(!CLK * RESET_B)	0.01860	0.00946	0.32940	0.00938	2.50740	0.01041
	(!CLK * !RESET_B)	0.01860	-0.00005	0.32940	-0.00005	2.50740	-0.00005

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

Call Name	Whon		Power(pJ)									
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
	CLK	0.01860	0.00110	0.32940	0.00099	2.50740	0.00210					
sg13g2_dfrbpq_2	(!CLK * RESET_B)	0.01860	0.00714	0.32940	0.00697	2.50740	0.00808					
	(!CLK * !RESET_B)	0.01860	0.00004	0.32940	0.00005	2.50740	0.00005					
	CLK	0.01860	0.00109	0.32940	0.00098	2.50740	0.00210					
sg13g2_dfrbpq_1	(!CLK * RESET_B)	0.01860	0.00711	0.32940	0.00696	2.50740	0.00806					
	(!CLK * !RESET_B)	0.01860	0.00005	0.32940	0.00005	2.50740	0.00005					

Passive power(pJ) for RESET_B rising:

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_2	0.01860	0.00286	0.32940	0.00274	2.50740	0.00346
sg13g2_dfrbpq_1	0.01860	0.00283	0.32940	0.00271	2.50740	0.00343

Passive power(pJ) for RESET_B falling :

Cell Name			Powe	r(pJ)		
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_2	0.01860	0.00746	0.32940	0.00698	2.50740	0.00810
sg13g2_dfrbpq_1	0.01860	0.00747	0.32940	0.00700	2.50740	0.00811

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

Cell Name	XX 71	Power(pJ)							
Cen Ivanic	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(CLK * D * !Q)	0.01860	0.00286	0.32940	0.00274	2.50740	0.00346		
sal2a2 dfubna 2	(CLK * !D * !Q)	0.01860	0.00095	0.32940	0.00095	2.50740	0.00095		
sg13g2_dfrbpq_2	(!CLK * D * !Q)	0.01860	0.01120	0.32940	0.01093	2.50740	0.01191		
	(!CLK * !D * !Q)	0.01860	0.00092	0.32940	0.00091	2.50740	0.00091		
	(CLK * D * !Q)	0.01860	0.00283	0.32940	0.00271	2.50740	0.00343		
aa12a2 dfuhua 1	(CLK * !D * !Q)	0.01860	0.00093	0.32940	0.00092	2.50740	0.00092		
sg13g2_dfrbpq_1	(!CLK * D * !Q)	0.01860	0.01119	0.32940	0.01092	2.50740	0.01190		
	(!CLK * !D * !Q)	0.01860	0.00089	0.32940	0.00088	2.50740	0.00088		

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

CHN	***		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
	(CLK * D * !Q)	0.01860	0.02282	0.32940	0.02211	2.50740	0.02462			
201222 dfuhua 2	(CLK * !D * !Q)	0.01860	-0.00043	0.32940	-0.00060	2.50740	-0.00066			
sg13g2_dfrbpq_2	(!CLK * D * !Q)	0.01860	0.00746	0.32940	0.00698	2.50740	0.00810			
	(!CLK * !D * !Q)	0.01860	-0.00065	0.32940	-0.00079	2.50740	-0.00083			
	(CLK * D * !Q)	0.01860	0.02053	0.32940	0.01981	2.50740	0.02230			
12-2 J6-k 1	(CLK * !D * !Q)	0.01860	-0.00041	0.32940	-0.00057	2.50740	-0.00063			
sg13g2_dfrbpq_1	(!CLK * D * !Q)	0.01860	0.00747	0.32940	0.00700	2.50740	0.00811			
	(!CLK * !D * !Q)	0.01860	-0.00063	0.32940	-0.00076	2.50740	-0.00080			

Passive power(pJ) for CLK rising :

Cell Name			Powe	r(pJ)		
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_2	0.01860	0.00924	0.32940	0.00882	2.50740	0.01187
sg13g2_dfrbpq_1	0.01860	0.00889	0.32940	0.00847	2.50740	0.01153

Passive power(pJ) for CLK falling:

Call Name			Powe	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_2	0.01860	0.01670	0.32940	0.01629	2.50740	0.01915
sg13g2_dfrbpq_1	0.01860	0.01674	0.32940	0.01633	2.50740	0.01919

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

Call Name	XX 71	Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(D * RESET_B * Q)	0.01860	0.00892	0.32940	0.00849	2.50740	0.01156		
collad dfuhna 1	(D * !RESET_B * !Q)	0.01860	0.00933	0.32940	0.00894	2.50740	0.01199		
sg13g2_dfrbpq_2	(!D * RESET_B * !Q)	0.01860	0.00885	0.32940	0.00841	2.50740	0.01149		
	(!D * !RESET_B	0.01860	0.00924	0.32940	0.00882	2.50740	0.01187		
	(D * RESET_B * Q)	0.01860	0.00889	0.32940	0.00847	2.50740	0.01153		
201222 dfuhus 1	(D * !RESET_B * !Q)	0.01860	0.00925	0.32940	0.00887	2.50740	0.01192		
sg13g2_dfrbpq_1	(!D * RESET_B * !Q)	0.01860	0.00876	0.32940	0.00835	2.50740	0.01141		
	(!D * !RESET_B * !Q)	0.01860	0.00916	0.32940	0.00875	2.50740	0.01180		

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

Call Name	Wilson			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(D * RESET_B * Q)	0.01860	0.02480	0.32940	0.02439	2.50740	0.02725
	(D * RESET_B * !Q)	0.01860	0.01670	0.32940	0.01629	2.50740	0.01915
201222 dfuhua 2	(D * !RESET_B * !Q)	0.01860	0.00869	0.32940	0.00838	2.50740	0.01127
sg13g2_dfrbpq_2	(!D * RESET_B * Q)	0.01860	0.03064	0.32940	0.03007	2.50740	0.03295
	(!D * RESET_B * !Q)	0.01860	0.00862	0.32940	0.00831	2.50740	0.01122
	(!D * !RESET_B	0.01860	0.00865	0.32940	0.00833	2.50740	0.01124
	(D * RESET_B * Q)	0.01860	0.02114	0.32940	0.02073	2.50740	0.02359
	(D * RESET_B * !Q)	0.01860	0.01674	0.32940	0.01633	2.50740	0.01919
001202 dfulma 1	(D * !RESET_B * !Q)	0.01860	0.00871	0.32940	0.00840	2.50740	0.01134
sg13g2_dfrbpq_1	(!D * RESET_B * Q)	0.01860	0.02889	0.32940	0.02404	2.50740	0.02703
	(!D * RESET_B * !Q)	0.01860	0.00865	0.32940	0.00834	2.50740	0.01126
	(!D * !RESET_B	0.01860	0.00868	0.32940	0.00836	2.50740	0.01130

DLHQ



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

I	NPUT	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

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	D	GATE	Q
sg13g2_dlhq_1	0.00213	0.00213	0.30000

Leakage Information

Call Name		Leakage(pW)	
Cell Name	Min.	Avg	Max.
sg13g2_dlhq_1	1392.37000	1700.59000	2124.80000

Delay Information Delay(ns) to Q rising:

Cell Name Timing Arc(Dir)		Delay(ns)								
	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
12.2 111 1	D->Q (RR)	0.01860	0.00100	0.27312	0.32940	0.06480	0.67277	2.50740	0.30000	1.97291
sg13g2_dlhq_1	GATE->Q (RR)	0.01860	0.00100	0.23272	0.32940	0.06480	0.63394	2.50740	0.30000	1.92900

Delay(ns) to Q falling:

Call Name	Timing		Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12.2 III 1	D->Q (FF)	0.01860	0.00100	0.24124	0.32940	0.06480	0.60099	2.50740	0.30000	1.70445			
sg13g2_dlhq_1	GATE->Q (RF)	0.01860	0.00100	0.25029	0.32940	0.06480	0.61399	2.50740	0.30000	1.72578			

Constraint Information

Constraints(ns) for D rising:

	Timina			Constraint(ns)									
Cell Name	Name Check		Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
12.2 11.1	hold	GATE (F)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.33190	2.50740	2.50740	-0.41617		
sg13g2_dlhq_1	setup	GATE (F)	0.01860	0.01860	0.15894	1.26300	1.26300	0.39126	2.50740	2.50740	0.53423		

Constraints(ns) for D falling:

	T::	ming Ref	Constraint(ns)									
Cell Name	0	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
12.2 W. 1	hold	GATE (F)	0.01860	0.01860	-0.06113	1.26300	1.26300	-0.03778	2.50740	2.50740	-0.01181	
sg13g2_dlhq_1	setup	GATE (F)	0.01860	0.01860	0.07580	1.26300	1.26300	0.05127	2.50740	2.50740	0.02656	

Constraints(ns) for GATE rising:

Cell Name Timing		Dof		Constraint(ns)									
	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dlhq_1	min_pulse_width	GATE ()	0.01860	0.00000	0.12146	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Power Information

Internal switching power(pJ) to Q rising:

Call Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12-2 JUL 1	D	0.01860	0.00100	0.01123	0.32940	0.06480	0.01160	2.50740	0.30000	0.01101			
sg13g2_dlhq_1	GATE	0.01860	0.00100	0.00929	0.32940	0.06480	0.00957	2.50740	0.30000	0.00907			

Internal switching power(pJ) to Q falling:

Call Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
221222 dlb 2 1	D	0.01860	0.00100	0.01195	0.32940	0.06480	0.01233	2.50740	0.30000	0.01210			
sg13g2_dlhq_1	GATE	0.01860	0.00100	0.01017	0.32940	0.06480	0.01066	2.50740	0.30000	0.01074			

Passive power(pJ) for D rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dlhq_1	0.01860	0.00308	0.32940	0.00286	2.50740	0.00496					

Passive power(pJ) for D falling:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dlhq_1	0.01860	0.00304	0.32940	0.00286	2.50740	0.00490					

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

Call Name	Where		Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	(!GATE * Q)	0.01860	0.00308	0.32940	0.00286	2.50740	0.00496				
	(!GATE * !Q)	0.01860	0.00278	0.32940	0.00260	2.50740	0.00474				

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

Call Name	Where		Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	(!GATE * Q)	0.01860	0.00287	0.32940	0.00274	2.50740	0.00482				
	(!GATE * !Q)	0.01860	0.00304	0.32940	0.00286	2.50740	0.00490				

Passive power(pJ) for GATE rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	0.01860	0.00722	0.32940	0.00696	2.50740	0.00958				

Passive power(pJ) for GATE falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	0.01860	0.01171	0.32940	0.01210	2.50740	0.01480				

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

Call Name	When		Power(pJ)								
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	g13g2_dlhq_1 (!D * !Q)		0.00722	0.32940	0.00696	2.50740	0.00958				

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

Call Name	XX/la o sa		Power(pJ)								
Cell Name	When	Slew(ns) First		Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	sg13g2_dlhq_1 (!D * !Q)		0.01171	0.32940	0.01210	2.50740	0.01480				

DLHRQ



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INPUT	I	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

Call Name		Max Cap(pf)		
Cell Name	D	RESET_B	GATE	Q
sg13g2_dlhrq_1	0.00199	0.00272	0.00204	0.30000

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dlhrq_1	1556.96000	1837.18000	2128.14000					

Delay Information Delay(ns) to Q rising:

Cell Name	Timing		Delay(ns)											
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	0.29005	0.32940	0.06480	0.69762	2.50740	0.30000	1.99576				
	GATE->Q (RR)	0.01860	0.00100	0.26153	0.32940	0.06480	0.67264	2.50740	0.30000	1.96946				

Delay(ns) to Q falling:

Call Name	Timing		Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	D->Q (FF)	0.01860	0.00100	0.25632	0.32940	0.06480	0.61947	2.50740	0.30000	1.73127			
sg13g2_dlhrq_1	GATE->Q (RF)	0.01860	0.00100	0.26924	0.32940	0.06480	0.63874	2.50740	0.30000	1.76422			
	RESET_B->Q (FF)	0.01860	0.00100	0.09770	0.32940	0.06480	0.48085	2.50740	0.30000	1.68047			

Constraint Information

Constraints(ns) for D rising:

	Timing Ref		Constraint(ns)										
Cell Name	Il Name Check		Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
12.2 111 1	hold	GATE (F)	0.01860	0.01860	-0.13204	1.26300	1.26300	-0.29952	2.50740	2.50740	-0.37780		
sg13g2_dlhrq_1	setup	GATE (F)	0.01860	0.01860	0.15405	1.26300	1.26300	0.36698	2.50740	2.50740	0.49291		

Constraints(ns) for D falling:

	Timing Ref	Dof	Constraint(ns)											
Cell Name	Check	1	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last			
12.2 111 1	hold	GATE (F)	0.01860	0.01860	-0.06847	1.26300	1.26300	-0.03508	2.50740	2.50740	-0.00590			
sg13g2_dlhrq_1	setup	GATE (F)	0.01860	0.01860	0.08558	1.26300	1.26300	0.05127	2.50740	2.50740	0.02361			

Constraints(ns) for RESET_B rising:

	Timing Ref				Co	onstraint(r	ns)				
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12.2 111.1	recovery	GATE (F)	0.01860	0.01860	-0.02201	1.26300	1.26300	-0.12143	2.50740	2.50740	-0.16824
sg13g2_dlhrq_1	removal	GATE (F)	0.01860	0.01860	0.04646	1.26300	1.26300	0.16730	2.50740	2.50740	0.22432

Constraints(ns) for RESET_B falling:

Cell Name	Timing Check	Ref Pin(trans)		Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
sg13g2_dlhrq_1	min_pulse_width	RESET_B	0.01860	0.00000	0.29129	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Constraints(ns) for GATE rising:

		Ref		Constraint(ns)								
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
sg13g2_dlhrq_1	min_pulse_width	GATE ()	0.01860	0.00000	0.12787	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Power Information

Internal switching power(pJ) to Q rising:

Call Name	T4		Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
12-2 W 1	D	0.01860	0.00100	0.00070	0.32940	0.06480	0.00064	2.50740	0.30000	0.00011		
sg13g2_dlhrq_1	GATE	0.01860	0.00100	0.00721	0.32940	0.06480	0.00758	2.50740	0.30000	0.00709		

Internal switching power(pJ) to Q falling:

Call Name	T4		Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	D	0.01860	0.00100	-0.00070	0.32940	0.06480	-0.00064	2.50740	0.30000	-0.00011	
sg13g2_dlhrq_1	GATE	0.01860	0.00100	0.00721	0.32940	0.06480	0.00782	2.50740	0.30000	0.00789	
	RESET_B	0.01860	0.00100	0.00593	0.32940	0.06480	0.00610	2.50740	0.30000	0.00840	

Passive power(pJ) for D rising:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	0.01860	0.01363	0.32940	0.01377	2.50740	0.01594			

Passive power(pJ) for D falling:

Cell Name	Power(pJ)								
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	0.01860	0.01603	0.32940	0.01940	2.50740	0.02150			

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

Cell Name	XX/In case		Power(pJ)							
Cen Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	0.00111	0.32940	0.00091	2.50740	0.00303			
	!RESET_B	0.01860	0.01363	0.32940	0.01377	2.50740	0.01594			

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

Call Name	W/h ove		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	0.00377	0.32940	0.00364	2.50740	0.00572			
	!RESET_B	0.01860	0.01603	0.32940	0.01940	2.50740	0.02150			

Passive power(pJ) for RESET_B rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	0.01860	0.00011	0.32940	0.00010	2.50740	0.00010			

Passive power(pJ) for RESET_B falling :

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	0.01860	0.00020	0.32940	0.00011	2.50740	0.00007			

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

Call Name	***		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
12-2 Jll 1	(D * !GATE * !Q)	0.01860	0.00011	0.32940	0.00010	2.50740	0.00010			
sg13g2_dlhrq_1	(!D * !GATE * !Q)	0.01860	0.00011	0.32940	0.00010	2.50740	0.00010			

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

Coll Name	Whon		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
12-2 Jil 1	(D * !GATE * !Q)	0.01860	0.00020	0.32940	0.00011	2.50740	0.00007			
sg13g2_dlhrq_1	(!D * !GATE * !Q)	0.01860	0.00020	0.32940	0.00011	2.50740	0.00007			

Passive power(pJ) for GATE rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	0.01860	0.00980	0.32940	0.00938	2.50740	0.01202			

Passive power(pJ) for GATE falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhrq_1	0.01860	0.01187	0.32940	0.01234	2.50740	0.01497				

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

Call Name	W/h ore	Power(pJ)									
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	0.00980	0.32940	0.00938	2.50740	0.01202				
	(!D * !RESET_B * !Q)	0.01860	0.00700	0.32940	0.00674	2.50740	0.00932				

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

Call Name	W/h on	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	0.00952	0.32940	0.00914	2.50740	0.01197			
	(!D * RESET_B * !Q)	0.01860	0.01187	0.32940	0.01234	2.50740	0.01497			
	(!D * !RESET_B * !Q)	0.01860	0.01193	0.32940	0.01241	2.50740	0.01502			

DLHR



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INPUT	1	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	0.00193	0.00288	0.00209	0.30000	0.30000	

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dlhr_1	2052.82000	2349.90000	2640.92000					

Delay Information Delay(ns) to Q rising:

Cell Name Timing Arc(Dir)	Timing	Delay(ns)											
	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	0.31403	0.32940	0.06480	0.73280	2.50740	0.30000	2.02785			
	GATE->Q (RR)	0.01860	0.00100	0.28683	0.32940	0.06480	0.71020	2.50740	0.30000	2.00676			

Delay(ns) to Q falling:

Call Name	Timing Arc(Dir)	Delay(ns)									
Cell Name		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	0.26572	0.32940	0.06480	0.63458	2.50740	0.30000	1.73773	
	GATE->Q (RF)	0.01860	0.00100	0.27870	0.32940	0.06480	0.65482	2.50740	0.30000	1.77539	
	RESET_B->Q (FF)	0.01860	0.00100	0.10660	0.32940	0.06480	0.50400	2.50740	0.30000	1.73927	

Delay(ns) to Q_N rising:

Cell Name	Timing Arc(Dir)	Delay(ns)									
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	0.32622	0.32940	0.06480	0.71592	2.50740	0.30000	1.97227	
	GATE->Q_N (RR)	0.01860	0.00100	0.33946	0.32940	0.06480	0.73594	2.50740	0.30000	2.01022	
	RESET_B->Q_N (FR)	0.01860	0.00100	0.16664	0.32940	0.06480	0.58146	2.50740	0.30000	1.92390	

Delay(ns) to Q_N falling:

l Cell Name	Timing		Delay(ns)									
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	0.38206	0.32940	0.06480	0.73413	2.50740	0.30000	1.87564		
	GATE->Q_N (RF)	0.01860	0.00100	0.35526	0.32940	0.06480	0.71128	2.50740	0.30000	1.85476		

Constraint Information

Constraints(ns) for D rising:

Cell Name	Timing Dof			Constraint(ns)									
	Timing Check	heck Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
42.2 111.4	hold	GATE (F)	0.01860	0.01860	-0.14182	1.26300	1.26300	-0.30761	2.50740	2.50740	-0.38370		
sg13g2_dlhr_1	setup	GATE (F)	0.01860	0.01860	0.16627	1.26300	1.26300	0.37237	2.50740	2.50740	0.49881		

Constraints(ns) for D falling:

	Timina	Ref				Co	onstraint(r	ns)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	-0.07091	1.26300	1.26300	-0.03508	2.50740	2.50740	-0.00590
	setup	GATE (F)	0.01860	0.01860	0.09047	1.26300	1.26300	0.05127	2.50740	2.50740	0.02361

Constraints(ns) for RESET_B rising:

	Timing	Ref				Co	onstraint(r	ns)	Constraint(ns)										
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last								
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	-0.00734	1.26300	1.26300	-0.05667	2.50740	2.50740	-0.07969								
	removal	GATE (F)	0.01860	0.01860	0.03423	1.26300	1.26300	0.11603	2.50740	2.50740	0.14758								

Constraints(ns) for RESET_B falling:

G 11.12		Ref Pin(trans)				Co	nstraint(n	ıs)			
Cell Name	Cell Name Timing Check		Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	RESET_B	0.01860	0.00000	0.30090	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for GATE rising:

		Ref		Constraint(ns)									
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dlhr_1	min_pulse_width	GATE ()	0.01860	0.00000	0.14069	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Power Information

Internal switching power(pJ) to Q rising:

Cell Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12.2 111.1	D	0.01860	0.00100	0.00357	0.32940	0.06480	0.00381	2.50740	0.30000	0.00349			
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.00673	0.32940	0.06480	0.00709	2.50740	0.30000	0.00677			

Internal switching power(pJ) to Q falling:

Call Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D	0.01860	0.00100	0.00221	0.32940	0.06480	0.00076	2.50740	0.30000	0.00043
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.00674	0.32940	0.06480	0.00720	2.50740	0.30000	0.00707
	RESET_B	0.01860	0.00100	0.00598	0.32940	0.06480	0.00612	2.50740	0.30000	0.00718

Internal switching power(pJ) to Q_N rising:

Call Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D	0.01860	0.00100	0.00222	0.32940	0.06480	0.00084	2.50740	0.30000	0.00044
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.01149	0.32940	0.06480	0.01178	2.50740	0.30000	0.01300
	RESET_B	0.01860	0.00100	0.00598	0.32940	0.06480	0.00623	2.50740	0.30000	0.00723

Internal switching power(pJ) to Q_N falling:

Call Name	T4				Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last					
12-2	D	0.01860	0.00100	0.00357	0.32940	0.06480	0.00374	2.50740	0.30000	0.00352					
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.00672	0.32940	0.06480	0.00703	2.50740	0.30000	0.00695					

Passive power(pJ) for D rising:

Cell Name		Power(pJ)								
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhr_1	0.01860	0.01329	0.32940	0.01341	2.50740	0.01561				

Passive power(pJ) for D falling:

Call Name		Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhr_1	0.01860	0.01572	0.32940	0.01916	2.50740	0.02130				

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

Call Name	XX 71		Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	0.00278	0.32940	0.00258	2.50740	0.00472				
	!RESET_B	0.01860	0.01329	0.32940	0.01341	2.50740	0.01561				

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

Call Name	W/h ozo			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	0.00535	0.32940	0.00523	2.50740	0.00734
	!RESET_B	0.01860	0.01572	0.32940	0.01916	2.50740	0.02130

Passive power(pJ) for RESET_B rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	Slew(ns) First Slew(ns) Mid Slew(ns) I					
sg13g2_dlhr_1	0.01860	0.00002	0.32940	0.00001	2.50740	0.00001	

Passive power(pJ) for RESET_B falling:

Call Name	Power(pJ)						
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) Last						
sg13g2_dlhr_1	0.01860	0.00028	0.32940	0.00019	2.50740	0.00016	

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

Call Name			Power(pJ)					
Cell Name	ame When		First	Slew(ns)	Mid	Slew(ns)	Last	
122	(D * !GATE * !Q)	0.01860	0.00002	0.32940	0.00001	2.50740	0.00001	
sg13g2_dlhr_1	(!D * !GATE * !Q)	0.01860	0.00002	0.32940	0.00001	2.50740	0.00001	

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

Call Name	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
12.2 10.1	(D * !GATE * !Q)	0.01860	0.00028	0.32940	0.00019	2.50740	0.00016
sg13g2_dlhr_1	(!D * !GATE * !Q)	0.01860	0.00028	0.32940	0.00019	2.50740	0.00016

Passive power(pJ) for GATE rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	Slew(ns) First Slew(ns) Mid Slew(ns)					
sg13g2_dlhr_1	0.01860	0.00950	0.32940	0.00910	2.50740	0.01174	

Passive power(pJ) for GATE falling:

Call Name	Power(pJ)					
Cell Name	Slew(ns)	Slew(ns) First Slew(ns) Mid Slew(ns)				
sg13g2_dlhr_1	0.01860	0.01173	0.32940	0.01216	2.50740	0.01470

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

Call Name Wiles	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	0.00950	0.32940	0.00910	2.50740	0.01174
	(!D * !RESET_B * !Q)	0.01860	0.00672	0.32940	0.00646	2.50740	0.00906

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

Call Name When		Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	0.00976	0.32940	0.00937	2.50740	0.01220	
	(!D * RESET_B * !Q)	0.01860	0.01173	0.32940	0.01216	2.50740	0.01470	
	(!D * !RESET_B * !Q)	0.01860	0.01177	0.32940	0.01218	2.50740	0.01483	





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INPU	OUTPUT	
D	RESET_B	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

Call Name		Max Cap(pf)		
Cell Name	D	Q		
sg13g2_dllrq_1	0.00190	0.00273	0.00202	0.30000

Leakage Information

Call Name		Leakage(pW)				
Cell Name	Min.	Avg	Max.			
sg13g2_dllrq_1	1556.62000	1837.09000	2128.23000			

Delay Information Delay(ns) to Q rising:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D->Q (RR)	0.01860	0.00100	0.28861	0.32940	0.06480	0.69506	2.50740	0.30000	1.99152
sg13g2_dllrq_1	GATE_N->Q (FR)	0.01860	0.00100	0.32484	0.32940	0.06480	0.74234	2.50740	0.30000	2.05738
	RESET_B->Q (RR)	0.01860	0.00100	0.12892	0.32940	0.06480	0.53336	2.50740	0.30000	1.88551

Delay(ns) to Q falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D->Q (FF)	0.01860	0.00100	0.25512	0.32940	0.06480	0.61605	2.50740	0.30000	1.72144
sg13g2_dllrq_1	GATE_N->Q (FF)	0.01860	0.00100	0.24413	0.32940	0.06480	0.62318	2.50740	0.30000	1.82145
	RESET_B->Q (FF)	0.01860	0.00100	0.09855	0.32940	0.06480	0.48039	2.50740	0.30000	1.67735

Constraint Information

Constraints(ns) for D rising:

	Timing	Ref			Constraint(ns)									
Cell Name		_	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last			
221222 dilua 1	hold	GATE_N (R)	0.01860	0.01860	-0.10514	1.26300	1.26300	-0.12682	2.50740	2.50740	-0.15643			
sg13g2_dllrq_1	setup	GATE_N (R)	0.01860	0.01860	0.11981	1.26300	1.26300	0.14571	2.50740	2.50740	0.18004			

Constraints(ns) for D falling:

	Timina	Timing Ref		Constraint(ns)										
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last			
221222 dilum 1	hold	GATE_N (R)	0.01860	0.01860	-0.13204	1.26300	1.26300	-0.31841	2.50740	2.50740	-0.40731			
sg13g2_dllrq_1	setup	GATE_N (R)	0.01860	0.01860	0.14671	1.26300	1.26300	0.36968	2.50740	2.50740	0.49586			

Constraints(ns) for RESET_B rising:

	Timing	Ref				Co	onstraint(r	ıs)			
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
aa12a2 dilbaa 1	recovery	GATE_N (R)	0.01860	0.01860	-0.05379	1.26300	1.26300	-0.14571	2.50740	2.50740	-0.16529
sg13g2_dllrq_1	removal	GATE_N (R)	0.01860	0.01860	0.07825	1.26300	1.26300	0.17269	2.50740	2.50740	0.20070

Constraints(ns) for RESET_B falling:

Call Name Timing Check	Dof		Constraint(ns)									
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
sg13g2_dllrq_1	min_pulse_width	RESET_B	0.01860	0.00000	0.29129	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Constraints(ns) for GATE_N falling:

	Call Name Timing Check	D-f		Constraint(ns)									
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dllrq_1	min_pulse_width	GATE_N	0.01860	0.00000	0.16632	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Power Information

Internal switching power(pJ) to Q rising:

Call Name	T 4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	D	0.01860	0.00100	0.00472	0.32940	0.06480	0.00516	2.50740	0.30000	0.00466			
sg13g2_dllrq_1	GATE_N	0.01860	0.00100	0.00561	0.32940	0.06480	0.00519	2.50740	0.30000	0.00493			
	RESET_B	0.01860	0.00100	0.00728	0.32940	0.06480	0.00735	2.50740	0.30000	0.00860			

Internal switching power(pJ) to Q falling:

Call Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	D	0.01860	0.00100	0.00416	0.32940	0.06480	0.00037	2.50740	0.30000	0.00009			
sg13g2_dllrq_1	GATE_N	0.01860	0.00100	0.00471	0.32940	0.06480	0.00435	2.50740	0.30000	0.00426			
	RESET_B	0.01860	0.00100	0.00605	0.32940	0.06480	0.00620	2.50740	0.30000	0.00862			

Passive power(pJ) for D rising:

Call Name		Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dllrq_1	0.01860	0.00953	0.32940	0.00919	2.50740	0.01131					

Passive power(pJ) for D falling:

Call Name		Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dllrq_1	0.01860	0.00999	0.32940	0.01396	2.50740	0.01606					

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

Call Name	XX 71		Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	0.00105	0.32940	0.00086	2.50740	0.00298				
_	!RESET_B	0.01860	0.00953	0.32940	0.00919	2.50740	0.01131				

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

Cell Name	XX 71	Power(pJ)						
	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	0.00372	0.32940	0.00359	2.50740	0.00569	
	!RESET_B	0.01860	0.00999	0.32940	0.01396	2.50740	0.01606	

Passive power(pJ) for RESET_B rising:

Call Name			Power(pJ)						
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) La								
sg13g2_dllrq_1	0.01860	0.01860 0.00016 0.32940 0.00016 2.50740 0.00							

Passive power(pJ) for RESET_B falling :

Call Name			Power(pJ)					
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns)							
sg13g2_dllrq_1	0.01860	0.01860 0.00021 0.32940 0.00012 2.50740						

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

Cell Name	W/h or	Power(pJ)						
	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	0.00016	0.32940	0.00016	2.50740	0.00016	
	(!D * GATE_N * !Q)	0.01860	0.00016	0.32940	0.00016	2.50740	0.00016	

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

Cell Name	W/h or	Power(pJ)						
	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)		
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	0.00021	0.32940	0.00012	2.50740	0.00008	
	(!D * GATE_N * !Q)	0.01860	0.00021	0.32940	0.00012	2.50740	0.00009	

Passive power(pJ) for GATE_N rising:

Call Name			Power	Power(pJ)					
Cell Name	Slew(ns)	Slew(ns) First Slew(ns) Mid Slew(ns) Las							
sg13g2_dllrq_1	0.01860	0.01860 0.01060 0.32940 0.01024 2.50740 0.0126 4							

Passive power(pJ) for GATE_N falling:

Call Name		Power(pJ)							
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns)								
sg13g2_dllrq_1	0.01860	0.01860 0.01181 0.32940 0.01226 2.50740 0.014							

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

Cell Name	W/hon	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	0.01060	0.32940	0.01024	2.50740	0.01264	
	(!D * !RESET_B * !Q)	0.01860	0.00629	0.32940	0.00602	2.50740	0.00861	

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

Cell Name	Whon	Power(pJ)						
	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	0.01020	0.32940	0.00994	2.50740	0.01244	
	(!D * RESET_B * !Q)	0.01860	0.01181	0.32940	0.01226	2.50740	0.01482	
	(!D * !RESET_B * !Q)	0.01860	0.01186	0.32940	0.01231	2.50740	0.01494	





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INPU	OUTPUT		
D	RESET_B	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

Call Name		Pin Cap(pf)		Max Cap(pf)			
Cell Name	D	RESET_B	Q	Q_N			
sg13g2_dllr_1	0.00200	0.00284	0.00215	0.30000	0.30000		

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dllr_1	2052.71000	2408.13000	2640.82000					

Delay Information Delay(ns) to Q rising:

C-II N	Timing		Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	0.31693	0.32940	0.06480	0.73514	2.50740	0.30000	2.02883		
	GATE_N->Q (FR)	0.01860	0.00100	0.35298	0.32940	0.06480	0.78336	2.50740	0.30000	2.09608		

Delay(ns) to Q falling:

Call Name	Timing Arc(Dir)		Delay(ns)									
Cell Name		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	0.26907	0.32940	0.06480	0.63708	2.50740	0.30000	1.73910		
	GATE_N->Q (FF)	0.01860	0.00100	0.25951	0.32940	0.06480	0.64703	2.50740	0.30000	1.84860		
	RESET_B->Q (FF)	0.01860	0.00100	0.10664	0.32940	0.06480	0.51157	2.50740	0.30000	1.74636		

Delay(ns) to Q_N rising:

Cell Name	Timing Arc(Dir)	Delay(ns)									
Cen ivalle		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	0.32932	0.32940	0.06480	0.71834	2.50740	0.30000	1.97159	
	GATE_N->Q_N (FR)	0.01860	0.00100	0.32005	0.32940	0.06480	0.72808	2.50740	0.30000	2.07993	
	RESET_B->Q_N (FR)	0.01860	0.00100	0.16786	0.32940	0.06480	0.58296	2.50740	0.30000	1.93296	

Delay(ns) to Q_N falling:

Cell Name	Timing		Delay(ns)									
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	0.38453	0.32940	0.06480	0.73652	2.50740	0.30000	1.87723		
	GATE_N->Q_N (FF)	0.01860	0.00100	0.42102	0.32940	0.06480	0.78468	2.50740	0.30000	1.94705		

Constraint Information

Constraints(ns) for D rising:

	Timing Ref Check Pin(trans)		Constraint(ns)										
Cell Name		_	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	-0.11737	1.26300	1.26300	-0.13492	2.50740	2.50740	-0.16234		
	setup	GATE_N (R)	0.01860	0.01860	0.13693	1.26300	1.26300	0.15381	2.50740	2.50740	0.18890		

Constraints(ns) for D falling:

	Timing Ref Check Pin(trans)	Dof	Constraint(ns)										
Cell Name		Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	-0.13693	1.26300	1.26300	-0.32380	2.50740	2.50740	-0.41026		
	setup	GATE_N (R)	0.01860	0.01860	0.15405	1.26300	1.26300	0.37777	2.50740	2.50740	0.50471		

Constraints(ns) for RESET_B rising:

	Timing	Ref	Constraint(ns)										
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	-0.04157	1.26300	1.26300	-0.09444	2.50740	2.50740	-0.08855		
	removal	GATE_N (R)	0.01860	0.01860	0.06847	1.26300	1.26300	0.12952	2.50740	2.50740	0.13282		

Constraints(ns) for RESET_B falling:

		Ref Pin(trans)		Constraint(ns)								
Cell Name	Timing Check		Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
sg13g2_dllr_1	min_pulse_width	RESET_B	0.01860	0.00000	0.30090	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Constraints(ns) for GATE_N falling:

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

Internal switching power(pJ) to Q rising:

Call Name	T4		Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
122 JUL 1	D	0.01860	0.00100	0.00746	0.32940	0.06480	0.04513	2.50740	0.30000	0.18148	
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.01409	0.32940	0.06480	0.05198	2.50740	0.30000	0.18877	

Internal switching power(pJ) to Q falling:

Cell Name	T4		Power(pJ)							
Cen Name in	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D	0.01860	0.00100	0.00669	0.32940	0.06480	0.03799	2.50740	0.30000	0.17439
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.01282	0.32940	0.06480	0.05060	2.50740	0.30000	0.18697
	RESET_B	0.01860	0.00100	0.01866	0.32940	0.06480	0.05584	2.50740	0.30000	0.19424

Internal switching power(pJ) to Q_N rising:

Call Name	T4		Power(pJ)							
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D	0.01860	0.00100	0.00671	0.32940	0.06480	0.03806	2.50740	0.30000	0.17450
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.02323	0.32940	0.06480	0.06094	2.50740	0.30000	0.20023
	RESET_B	0.01860	0.00100	0.01866	0.32940	0.06480	0.05612	2.50740	0.30000	0.19468

Internal switching power(pJ) to Q_N falling:

Cell Name	T4		Power(pJ)							
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-2 JUL 1	D	0.01860	0.00100	0.00745	0.32940	0.06480	0.04500	2.50740	0.30000	0.18156
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.01407	0.32940	0.06480	0.05195	2.50740	0.30000	0.18885

Passive power(pJ) for D rising:

Cell Name	Power(pJ)							
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dllr_1	0.01860	0.01393	0.32940	0.01406	2.50740	0.01628		

Passive power(pJ) for D falling:

Cell Name	Power(pJ)							
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dllr_1	0.01860	0.01398	0.32940	0.02042	2.50740	0.02256		

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

Cell Name	X 77	Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	0.00282	0.32940	0.00263	2.50740	0.00477		
	!RESET_B	0.01860	0.01393	0.32940	0.01406	2.50740	0.01628		

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

Call Name	W/h ore		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	0.00265	0.32940	0.00253	2.50740	0.00464			
	!RESET_B	0.01860	0.01398	0.32940	0.02042	2.50740	0.02256			

Passive power(pJ) for RESET_B rising:

Cell Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dllr_1	0.01860	0.00215	0.32940	0.00214	2.50740	0.00214		

Passive power(pJ) for RESET_B falling:

Cell Name	Power(pJ)							
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dllr_1	0.01860	0.00030	0.32940	0.00022	2.50740	0.00018		

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

Cell Name	When		Power(pJ)							
Cen Name	when	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
10.0 W	(D * GATE_N * !Q)	0.01860	0.00215	0.32940	0.00214	2.50740	0.00214			
sg13g2_dllr_1		0.01860	-0.00000	0.32940	-0.00001	2.50740	-0.00001			

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

Cell Name	When		Power(pJ)							
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
	(D * GATE_N * !Q)	0.01860	0.00031	0.32940	0.00022	2.50740	0.00018			
sg13g2_dllr_1	(!D * GATE_N * !Q)	0.01860	0.00030	0.32940	0.00022	2.50740	0.00018			

Passive power(pJ) for GATE_N rising:

Call Name		Power(pJ)									
Cell Name SI	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dllr_1	0.01860	0.01046	0.32940	0.01250	2.50740	0.01508					

Passive power(pJ) for GATE_N falling:

Call Name		Power(pJ)							
Cell Name	Cell Name Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dllr_1	0.01860	0.01040	0.32940	0.01014	2.50740	0.01264			

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

Cell Name	XX 71	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
	(D * !RESET_B * !Q)	0.01860	0.01063	0.32940	0.01028	2.50740	0.01267			
sg13g2_dllr_1	(!D * RESET_B * !Q)	0.01860	0.01046	0.32940	0.01250	2.50740	0.01508			
	(!D * !RESET_B * !Q)	0.01860	0.01051	0.32940	0.01254	2.50740	0.01511			

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

Call Name	XX/I	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid Slew(ns) 0.01014 2.50740 0.00659 2.50740	Last				
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	0.01040	0.32940	0.01014	2.50740	0.01264			
	(!D * !RESET_B * !Q)	0.01860	0.00683	0.32940	0.00659	2.50740	0.00924			

DLY1



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	14.51520

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_dlygate4sd1_1	0.00140	0.30000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_dlygate4sd1_1	797.60500	914.86200	1032.12000				

Delay Information Delay(ns) to X rising:

Cell Name	Timing					Delay(ns)				
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	A->X (RR)	0.01860	0.00100	0.18047	0.32940	0.06480	0.58465	2.50740	0.30000	1.86078

Delay(ns) to X falling:

Cell Name	Timing					Delay(ns)				
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	A->X (FF)	0.01860	0.00100	0.21054	0.32940	0.06480	0.59497	2.50740	0.30000	1.83148

Internal switching power(pJ) to X rising:

Cell Name Input	Immut		Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dlygate4sd1_1	A	0.01860	0.00100	0.01004	0.32940	0.06480	0.01005	2.50740	0.30000	0.01078		

Internal switching power(pJ) to X falling:

Cell Name Inpu	Innut		Power(pJ)								
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dlygate4sd1_1	A	0.01860	0.00100	0.00960	0.32940	0.06480	0.00971	2.50740	0.30000	0.01069	

DLY2



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	14.51520

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_dlygate4sd2_1	0.00139	0.30000

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_dlygate4sd2_1	840.62300	957.87700	1075.13000			

Delay Information Delay(ns) to X rising:

Cell Name Timing						Delay(ns)				
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	A->X (RR)	0.01860	0.00100	0.25740	0.32940	0.06480	0.67339	2.50740	0.30000	1.99890

Delay(ns) to X falling:

Call Name	Cell Name Delay(ns)									
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	A->X (FF)	0.01860	0.00100	0.29284	0.32940	0.06480	0.69831	2.50740	0.30000	1.99538

Internal switching power(pJ) to X rising:

Call Name	Immut	Power(pJ)								
Cell Name Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dlygate4sd2_1	A	0.01860	0.00100	0.01169	0.32940	0.06480	0.01179	2.50740	0.30000	0.01235

Internal switching power(pJ) to X falling:

Call Name	Innut]	Power(pJ)				
Cell Name Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dlygate4sd2_1	A	0.01860	0.00100	0.01133	0.32940	0.06480	0.01141	2.50740	0.30000	0.01220

DLY4



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_dlygate4sd3_1	0.00142	0.30000

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_dlygate4sd3_1	1694.06000	1811.32000	1928.58000			

Delay Information Delay(ns) to X rising:

Cell Name	Timing		Delay(ns)										
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_dlygate4sd3_1	A->X (RR)	0.01860	0.00100	0.53818	0.32940	0.06480	0.99527	2.50740	0.30000	2.43191			

Delay(ns) to X falling:

Cell Name	Timing		Delay(ns)										
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_dlygate4sd3_1	A->X (FF)	0.01860	0.00100	0.56948	0.32940	0.06480	1.02218	2.50740	0.30000	2.44372			

Internal switching power(pJ) to X rising:

Call Name	Immut		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_dlygate4sd3_1	A	0.01860	0.00100	0.01643	0.32940	0.06480	0.01631	2.50740	0.30000	0.01669			

Internal switching power(pJ) to X falling:

Cell Name	Input		Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dlygate4sd3_1	A	0.01860	0.00100	0.01613	0.32940	0.06480	0.01607	2.50740	0.30000	0.01660		





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

I	NPUT	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

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	A	TE_B	Z
sg13g2_einvn_4	0.00780	0.00843	1.20000
sg13g2_einvn_2	0.00401	0.00453	0.60000

Cell Name		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_einvn_4	717.43200	1402.49000	2087.55000						
sg13g2_einvn_2	355.00500	697.53300	1040.06000						

Delay Information Delay(ns) to Z rising:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Z (FR)	0.01860	0.00879	0.03654	0.32940	0.26699	0.78039	2.50740	1.20779	3.96752
sg13g2_einvn_4	TE_B->Z (RR)	0.01860	0.00879	0.07559	0.32940	0.26699	0.17956	2.50740	1.20779	0.39969
	TE_B->Z (FR)	0.01860	0.00879	0.04516	0.32940	0.26699	0.76783	2.50740	1.20779	3.78204
	A->Z (FR)	0.01860	0.00492	0.03961	0.32940	0.13352	0.77992	2.50740	0.60392	3.96567
sg13g2_einvn_2	TE_B->Z (RR)	0.01860	0.00492	0.07464	0.32940	0.13352	0.17878	2.50740	0.60392	0.41672
	TE_B->Z (FR)	0.01860	0.00492	0.04757	0.32940	0.13352	0.76808	2.50740	0.60392	3.78244

Delay(ns) to Z falling:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01543	0.03181	0.32940	0.27363	0.64953	2.50740	1.21443	3.42440	
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00841	0.03426	0.32940	0.13701	0.64910	2.50740	0.60741	3.42474	

Internal switching power(pJ) to Z rising:

C.II N	T4		Power(pJ)											
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
12-2 4	A	0.01860	0.00879	0.00442	0.32940	0.26699	0.00540	2.50740	1.20779	0.00628				
sg13g2_einvn_4	TE_B	0.01860	0.00879	0.01192	0.32940	0.26699	0.01119	2.50740	1.20779	0.01168				
12-2 2	A	0.01860	0.00492	0.00227	0.32940	0.13352	0.00267	2.50740	0.60392	0.00313				
sg13g2_einvn_2	TE_B	0.01860	0.00492	0.00585	0.32940	0.13352	0.00551	2.50740	0.60392	0.00557				

Internal switching power(pJ) to Z falling:

Cell Name	Innut	Power(pJ)									
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_einvn_4	A	0.01860	0.01543	0.00427	0.32940	0.27363	0.00544	2.50740	1.21443	0.00466	
sg13g2_einvn_2	A	0.01860	0.00841	0.00228	0.32940	0.13701	0.00275	2.50740	0.60741	0.00248	

Passive power(pJ) for A rising:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
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)	First	Slew(ns)	Mid	Slew(ns)	Last			
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)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_einvn_4	0.01860	-0.00826	0.32940	-0.00871	2.50740	-0.00601			
sg13g2_einvn_2	0.01860	-0.00355	0.32940	-0.00381	2.50740	-0.00245			

Passive power(pJ) for TE_B falling:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_einvn_4	0.01860	0.01124	0.32940	0.01126	2.50740	0.01443			
sg13g2_einvn_2	0.01860	0.00569	0.32940	0.00568	2.50740	0.00728			





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_8	14.51520
sg13g2_fill_2	3.62880
sg13g2_fill_4	7.25760

Pin Capacitance Information Leakage Information

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





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INP	UT	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 C	ap(pf)	Max Cap(pf)		
	GATE	CLK	GCLK		
sg13g2_lgcp_1	0.00217	0.00459	0.30000		

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_lgcp_1	1657.85000	1819.50000	1934.01000				

Delay Information Delay(ns) to GCLK rising:

Cell Name	Timing					Delay(ns)				
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK->GCLK (RR)	0.01860	0.00100	0.11291	0.32940	0.06480	0.51421	2.50740	0.30000	1.84299

Delay(ns) to GCLK falling:

Cell Name	Timing					Delay(ns)				
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK->GCLK (FF)	0.01860	0.00100	0.09046	0.32940	0.06480	0.46580	2.50740	0.30000	1.63654

Constraint Information

Constraints(ns) for GATE rising:

	Tii.	Dof	Constraint(ns)									
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
aa12a2 laan 1	hold	CLK (R)	0.01860	0.01860	-0.06202	1.26300	1.26300	-0.22308	2.50740	2.50740	-0.32766	
sg13g2_lgcp_1	setup	CLK (R)	0.01860	0.01860	0.11983	1.26300	1.26300	0.32089	2.50740	2.50740	0.48840	

Constraints(ns) for GATE falling:

	Timing	Ref		Constraint(ns)							
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
aa12a2 laan 1	hold	CLK (R)	0.01860	0.01860	-0.03031	1.26300	1.26300	-0.02259	2.50740	2.50740	-0.01330
sg13g2_lgcp_1	setup	CLK (R)	0.01860	0.01860	0.08771	1.26300	1.26300	0.08969	2.50740	2.50740	0.09760

Constraints(ns) for CLK rising:

Cell Name		Ref Pin(trans)		Constraint(ns)									
	Timing Check		Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_lgcp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.36179	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

$Constraints (ns) \ for \ CLK \ falling:$

Cell Name Timing		Ref		Constraint(ns)									
	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_lgcp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.15991	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Internal switching power(pJ) to GCLK rising:

Call Name	Innut		Power(pJ)									
Cell Name Inp	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_lgcp_1	CLK	0.01860	0.00100	0.00655	0.32940	0.06480	0.00666	2.50740	0.30000	0.00775		

Internal switching power(pJ) to GCLK falling:

Call Name	Innut		Power(pJ)									
Cell Name Inpu	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_lgcp_1	CLK	0.01860	0.00100	0.00484	0.32940	0.06480	0.00505	2.50740	0.30000	0.00690		

Passive power(pJ) for GATE rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_lgcp_1	0.01860	0.01486	0.32940	0.01563	2.50740	0.01731				

Passive power(pJ) for GATE falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_lgcp_1	0.01860	0.00869	0.32940	0.02181	2.50740	0.02378				

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

Cell Name	When		Power(pJ)							
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_lgcp_1	!CLK	0.01860	0.01486	0.32940	0.01563	2.50740	0.01731			

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

Cell Name	When		Power(pJ)								
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_lgcp_1	!CLK	0.01860	0.00869	0.32940	0.02181	2.50740	0.02378				

Passive power(pJ) for CLK rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_lgcp_1	0.01860	0.00594	0.32940	0.00565	2.50740	0.00826					

Passive power(pJ) for CLK falling :

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_lgcp_1	0.01860	0.00670	0.32940	0.00638	2.50740	0.00901					





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	Y
sg13g2_inv_16	0.04114	4.80000
sg13g2_inv_8	0.02112	2.40000
sg13g2_inv_4	0.01055	1.20000
sg13g2_inv_1	0.00270	0.30000
sg13g2_inv_2	0.00534	0.60000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_inv_16	2162.56000	4902.84000	7643.12000				
sg13g2_inv_8	1081.28000	2451.44000	3821.60000				
sg13g2_inv_4	540.64000	1225.71000	1910.78000				
sg13g2_inv_1	135.28800	306.52100	477.75300				
sg13g2_inv_2	270.32500	612.86400	955.40300				

Delay Information Delay(ns) to Y rising:

Cell Name	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_16	A->Y (FR)	0.01860	0.00100	0.02457	0.32940	1.03680	0.49187	2.50740	4.80000	2.70428
sg13g2_inv_8	A->Y (FR)	0.01860	0.00100	0.02195	0.32940	0.51840	0.48799	2.50740	2.40000	2.69972
sg13g2_inv_4	A->Y (FR)	0.01860	0.00100	0.02254	0.32940	0.25920	0.48781	2.50740	1.20000	2.69894
sg13g2_inv_1	A->Y (FR)	0.01860	0.00100	0.02821	0.32940	0.06480	0.48851	2.50740	0.30000	2.69729
sg13g2_inv_2	A->Y (FR)	0.01860	0.00100	0.02407	0.32940	0.12960	0.48735	2.50740	0.60000	2.69578

Delay(ns) to Y falling:

Cell Name	Timing	Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_16	A->Y (RF)	0.01860	0.00100	0.02456	0.32940	1.03680	0.46394	2.50740	4.80000	2.59142
sg13g2_inv_8	A->Y (RF)	0.01860	0.00100	0.02172	0.32940	0.51840	0.46097	2.50740	2.40000	2.58848
sg13g2_inv_4	A->Y (RF)	0.01860	0.00100	0.02226	0.32940	0.25920	0.46058	2.50740	1.20000	2.58760
sg13g2_inv_1	A->Y (RF)	0.01860	0.00100	0.02763	0.32940	0.06480	0.46034	2.50740	0.30000	2.58223
sg13g2_inv_2	A->Y (RF)	0.01860	0.00100	0.02370	0.32940	0.12960	0.45936	2.50740	0.60000	2.58122

Internal switching power(pJ) to Y rising:

Call Name	T4		Power(pJ)							
Cell Name Inpu	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_16	A	0.01860	0.00100	0.01699	0.32940	1.03680	0.02126	2.50740	4.80000	0.01679
sg13g2_inv_8	A	0.01860	0.00100	0.00856	0.32940	0.51840	0.01051	2.50740	2.40000	0.00899
sg13g2_inv_4	A	0.01860	0.00100	0.00433	0.32940	0.25920	0.00531	2.50740	1.20000	0.00452
sg13g2_inv_1	A	0.01860	0.00100	0.00131	0.32940	0.06480	0.00145	2.50740	0.30000	0.00122
sg13g2_inv_2	A	0.01860	0.00100	0.00222	0.32940	0.12960	0.00254	2.50740	0.60000	0.00219

Internal switching power(pJ) to Y falling:

Cell Name In	T4		Power(pJ)							
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_16	A	0.01860	0.00100	0.01531	0.32940	1.03680	0.01886	2.50740	4.80000	0.01702
sg13g2_inv_8	A	0.01860	0.00100	0.00773	0.32940	0.51840	0.00932	2.50740	2.40000	0.00812
sg13g2_inv_4	A	0.01860	0.00100	0.00392	0.32940	0.25920	0.00460	2.50740	1.20000	0.00413
sg13g2_inv_1	A	0.01860	0.00100	0.00137	0.32940	0.06480	0.00143	2.50740	0.30000	0.00131
sg13g2_inv_2	A	0.01860	0.00100	0.00208	0.32940	0.12960	0.00236	2.50740	0.60000	0.00210





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

I	NPUT	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

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	A	TE_B	Z
sg13g2_einvn_8	0.01543	0.01451	2.40000

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

Delay Information Delay(ns) to Z rising:

Timing		Delay(ns)								
Cell Name Arc(Dir)	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Z (FR)	0.01860	0.01656	0.03507	0.32940	0.53396	0.78167	2.50740	2.41556	3.97500
sg13g2_einvn_8	TE_B->Z (RR)	0.01860	0.01656	0.09463	0.32940	0.53396	0.22693	2.50740	2.41556	0.55939
	TE_B->Z (FR)	0.01860	0.01656	0.04550	0.32940	0.53396	0.77029	2.50740	2.41556	3.78884

Delay(ns) to Z falling:

Cell Name	Timing			Delay(ns)						
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_8	A->Z (RF)	0.01860	0.02971	0.03059	0.32940	0.54711	0.65014	2.50740	2.42871	3.43205

Internal switching power(pJ) to Z rising:

Call Name Imput			Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
12.2	A	0.01860	0.01656	0.00871	0.32940	0.53396	0.01100	2.50740	2.41556	0.01247		
sg13g2_einvn_8	TE_B	0.01860	0.01656	0.02666	0.32940	0.53396	0.02343	2.50740	2.41556	0.02271		

Internal switching power(pJ) to Z falling:

Cell Name	Innut		Power(pJ)							
Cen Name	Input	Slew(ns) Load(pf) First Slew(ns) Load(pf) Mid Slew(ns)						Load(pf)	Last	
sg13g2_einvn_8	A	0.01860	0.02971	0.00827	0.32940	0.54711	0.01076	2.50740	2.42871	0.00987

Passive power(pJ) for A rising:

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

Passive power(pJ) for A falling:

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

Passive power(pJ) for TE_B rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_einvn_8	0.01860	-0.01797	0.32940	-0.01986	2.50740	-0.02003	

Passive power(pJ) for TE_B falling:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_einvn_8	0.01860	0.01797	0.32940	0.01986	2.50740	0.02277	

KEEPSTATE



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT	OUTPUT
SH	SH
X	-

Footprint

Cell Name	Area
sg13g2_sighold	9.07200

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)	
Cell Name	SH	SH	
sg13g2_sighold	0.01149	-	

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_sighold	140.38500	571.88300	1003.38000				

Passive Power Information

Passive power(pJ) for SH rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	0.00396	0.32940	0.00641	2.50740	0.02556

Passive power(pJ) for SH falling:

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	0.00334	0.32940	0.00430	2.50740	0.02289

MUX2x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

IN	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	0.00260	0.00270	0.00463	0.60000
sg13g2_mux2_1	0.00259	0.00270	0.00464	0.30000

Call Name	Leakage(pW)				
Cell Name	Min.	Avg	Max.		
sg13g2_mux2_2	1020.27000	1363.34000	1627.00000		
sg13g2_mux2_1	751.57700	1057.00000	1491.98000		

Delay Information Delay(ns) to X rising:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A0->X (RR)	0.01860	0.00100	0.14044	0.32940	0.12960	0.58017	2.50740	0.60000	1.98111
sg13g2_mux2_2	A1->X (RR)	0.01860	0.00100	0.14045	0.32940	0.12960	0.58094	2.50740	0.60000	1.98317
	S->X (-R)	0.01860	0.00100	0.14503	0.32940	0.12960	0.58074	2.50740	0.60000	2.00195
	A0->X (RR)	0.01860	0.00100	0.12112	0.32940	0.06480	0.53415	2.50740	0.30000	1.87149
sg13g2_mux2_1	A1->X (RR)	0.01860	0.00100	0.12113	0.32940	0.06480	0.53468	2.50740	0.30000	1.87285
	S->X (-R)	0.01860	0.00100	0.12621	0.32940	0.06480	0.53923	2.50740	0.30000	1.90140

Delay(ns) to X falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A0->X (FF)	0.01860	0.00100	0.17927	0.32940	0.12960	0.61544	2.50740	0.60000	1.92069
sg13g2_mux2_2	A1->X (FF)	0.01860	0.00100	0.17904	0.32940	0.12960	0.61622	2.50740	0.60000	1.91937
	S->X (-F)	0.01860	0.00100	0.19668	0.32940	0.12960	0.60672	2.50740	0.60000	1.87619
	A0->X (FF)	0.01860	0.00100	0.15043	0.32940	0.06480	0.55185	2.50740	0.30000	1.78849
sg13g2_mux2_1	A1->X (FF)	0.01860	0.00100	0.15034	0.32940	0.06480	0.55251	2.50740	0.30000	1.79052
	S->X (-F)	0.01860	0.00100	0.16517	0.32940	0.06480	0.54691	2.50740	0.30000	1.75707

Delay(ns) to X rising (conditional):

Call Name	Timing	XX/1		Delay(ns)									
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
221222 2222 2	S->X (RR)	(!A0 * A1)	0.01860	0.00100	0.14503	0.32940	0.12960	0.58074	2.50740	0.60000	2.00195		
sg13g2_mux2_2	S->X (FR)	(A0 * !A1)	0.01860	0.00100	0.19935	0.32940	0.12960	0.61741	2.50740	0.60000	1.88084		
12-22 1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	0.12621	0.32940	0.06480	0.53923	2.50740	0.30000	1.90140		
sg13g2_mux2_1	S->X (FR)	(A0 * !A1)	0.01860	0.00100	0.18021	0.32940	0.06480	0.58373	2.50740	0.30000	1.84338		

Delay(ns) to X falling (conditional):

Cell Name	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
ca12a2 muv2 2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	0.19668	0.32940	0.12960	0.60672	2.50740	0.60000	1.87619
sg13g2_mux2_2	S->X (RF)	(A0 * !A1)	0.01860	0.00100	0.24587	0.32940	0.12960	0.64804	2.50740	0.60000	1.80416
221222	S->X (FF)	(!A0 * A1)	0.01860	0.00100	0.16517	0.32940	0.06480	0.54691	2.50740	0.30000	1.75707
sg13g2_mux2_1	S->X (RF)	(A0 * !A1)	0.01860	0.00100	0.21421	0.32940	0.06480	0.59328	2.50740	0.30000	1.74830

Internal switching power(pJ) to X rising:

Call Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A0	0.01860	0.00100	0.00920	0.32940	0.12960	0.00957	2.50740	0.60000	0.01054
sg13g2_mux2_2	A1	0.01860	0.00100	0.00930	0.32940	0.12960	0.00965	2.50740	0.60000	0.01068
	S	0.01860	0.00100	0.01032	0.32940	0.12960	0.01093	2.50740	0.60000	0.01154
	A0	0.01860	0.00100	0.00628	0.32940	0.06480	0.00621	2.50740	0.30000	0.00781
sg13g2_mux2_1	A1	0.01860	0.00100	0.00640	0.32940	0.06480	0.00633	2.50740	0.30000	0.00796
	S	0.01860	0.00100	0.00747	0.32940	0.06480	0.00758	2.50740	0.30000	0.00872

Internal switching power(pJ) to X falling:

Call Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A0	0.01860	0.00100	0.00982	0.32940	0.12960	0.01010	2.50740	0.60000	0.01243
sg13g2_mux2_2	A1	0.01860	0.00100	0.00978	0.32940	0.12960	0.01006	2.50740	0.60000	0.01212
	S	0.01860	0.00100	0.01043	0.32940	0.12960	0.01106	2.50740	0.60000	0.01103
	A0	0.01860	0.00100	0.00697	0.32940	0.06480	0.00704	2.50740	0.30000	0.00931
sg13g2_mux2_1	A1	0.01860	0.00100	0.00692	0.32940	0.06480	0.00697	2.50740	0.30000	0.00921
	S	0.01860	0.00100	0.00765	0.32940	0.06480	0.00791	2.50740	0.30000	0.00794

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

Cell Name	Immust		Power(pJ)									
Cell Name	Input		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sa12a2 muv2 2	S	(A0 * !A1)	0.01860	0.00100	0.01026	0.32940	0.12960	0.01117	2.50740	0.60000	0.01047	
sg13g2_mux2_2	s	(!A0 * A1)	0.01860	0.00100	0.01032	0.32940	0.12960	0.01093	2.50740	0.60000	0.01154	
	s	(A0 * !A1)	0.01860	0.00100	0.00738	0.32940	0.06480	0.00781	2.50740	0.30000	0.00731	
sg13g2_mux2_1	S	(!A0 * A1)	0.01860	0.00100	0.00747	0.32940	0.06480	0.00758	2.50740	0.30000	0.00872	

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

Call Name	T4	When					Power(pJ)				
Cell Name	Input	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	0.01043	0.32940	0.12960	0.01106	2.50740	0.60000	0.01103
sg13g2_mux2_2	S	(!A0 * A1)	0.01860	0.00100	0.00974	0.32940	0.12960	0.01042	2.50740	0.60000	0.01135
12-22 1	S	(A0 * !A1)	0.01860	0.00100	0.00765	0.32940	0.06480	0.00791	2.50740	0.30000	0.00794
sg13g2_mux2_1	S	(!A0 * A1)	0.01860	0.00100	0.00699	0.32940	0.06480	0.00730	2.50740	0.30000	0.00867

Passive power(pJ) for S rising:

Cell Name		Power(pJ)									
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_mux2_2	0.01860	0.00312	0.32940	0.00291	2.50740	0.00500					
sg13g2_mux2_1	0.01860	0.00312	0.32940	0.00292	2.50740	0.00501					

Passive power(pJ) for S falling:

Cell Name		Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_mux2_2	0.01860	0.00333	0.32940	0.00309	2.50740	0.00513					
sg13g2_mux2_1	0.01860	0.00332	0.32940	0.00308	2.50740	0.00513					

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

Call Name	¥¥71			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
12-22 2	(A0 * A1)	0.01860	0.00304	0.32940	0.00271	2.50740	0.00480
sg13g2_mux2_2	(!A0 * !A1)	0.01860	0.00312	0.32940	0.00291	2.50740	0.00500
12.2	(A0 * A1)	0.01860	0.00304	0.32940	0.00272	2.50740	0.00481
sg13g2_mux2_1	(!A0 * !A1)	0.01860	0.00312	0.32940	0.00292	2.50740	0.00501

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

Call Name	Wilesan			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
12.2	(A0 * A1)	0.01860	0.00302	0.32940	0.00286	2.50740	0.00492
sg13g2_mux2_2	(!A0 * !A1)	0.01860	0.00333	0.32940	0.00309	2.50740	0.00513
12.2	(A0 * A1)	0.01860	0.00301	0.32940	0.00285	2.50740	0.00492
sg13g2_mux2_1	(!A0 * !A1)	0.01860	0.00332	0.32940	0.00308	2.50740	0.00513

MUX4



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

		INP	UT			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)								
	A0	A1	A2	A3	S0	S1	X			
sg13g2_mux4_1	0.00256	0.00254	0.00256	0.00262	0.00782	0.00473	0.30000			

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_mux4_1	997.58000	2353.50000	3423.64000					

Delay Information Delay(ns) to X rising:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A0->X (RR)	0.01860	0.00100	0.22151	0.32940	0.06480	0.66243	2.50740	0.30000	2.15334
	A1->X (RR)	0.01860	0.00100	0.21204	0.32940	0.06480	0.65907	2.50740	0.30000	2.14723
	A2->X (RR)	0.01860	0.00100	0.23153	0.32940	0.06480	0.67798	2.50740	0.30000	2.18850
sg13g2_mux4_1	A3->X (RR)	0.01860	0.00100	0.22315	0.32940	0.06480	0.67415	2.50740	0.30000	2.18409
_	S0->X (-R)	0.01860	0.00100	0.19533	0.32940	0.06480	0.64828	2.50740	0.30000	2.12216
	S1->X (-R)	0.01860	0.00100	0.11124	0.32940	0.06480	0.53202	2.50740	0.30000	1.84943

Delay(ns) to X falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A0->X (FF)	0.01860	0.00100	0.24863	0.32940	0.06480	0.66445	2.50740	0.30000	1.94393
	A1->X (FF)	0.01860	0.00100	0.25199	0.32940	0.06480	0.66470	2.50740	0.30000	1.94415
	A2->X (FF)	0.01860	0.00100	0.26739	0.32940	0.06480	0.68705	2.50740	0.30000	1.98643
sg13g2_mux4_1	A3->X (FF)	0.01860	0.00100	0.26933	0.32940	0.06480	0.68659	2.50740	0.30000	1.98402
	S0->X (-F)	0.01860	0.00100	0.23375	0.32940	0.06480	0.66007	2.50740	0.30000	1.95938
	S1->X (-F)	0.01860	0.00100	0.16536	0.32940	0.06480	0.56870	2.50740	0.30000	1.70304

Delay(ns) to X rising (conditional):

Call Name	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	0.19533	0.32940	0.06480	0.64828	2.50740	0.30000	2.12216
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	0.18186	0.32940	0.06480	0.62681	2.50740	0.30000	2.07165
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	0.28081	0.32940	0.06480	0.72149	2.50740	0.30000	2.05834
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	0.27033	0.32940	0.06480	0.70814	2.50740	0.30000	2.03824
sg13g2_mux4_1	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	0.11158	0.32940	0.06480	0.53202	2.50740	0.30000	1.84916
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	0.11124	0.32940	0.06480	0.53202	2.50740	0.30000	1.84943
_	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	0.14908	0.32940	0.06480	0.56594	2.50740	0.30000	1.80749
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	0.14852	0.32940	0.06480	0.56541	2.50740	0.30000	1.80722

Delay(ns) to X falling (conditional):

CHN	Timing	***					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	0.23375	0.32940	0.06480	0.66007	2.50740	0.30000	1.95938
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	0.21130	0.32940	0.06480	0.63049	2.50740	0.30000	1.89975
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	0.30511	0.32940	0.06480	0.73451	2.50740	0.30000	1.95318
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	0.28711	0.32940	0.06480	0.71158	2.50740	0.30000	1.92569
sg13g2_mux4_1	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	0.13528	0.32940	0.06480	0.52950	2.50740	0.30000	1.68161
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	0.13503	0.32940	0.06480	0.52932	2.50740	0.30000	1.68134
_	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	0.16510	0.32940	0.06480	0.56899	2.50740	0.30000	1.70293
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	0.16536	0.32940	0.06480	0.56870	2.50740	0.30000	1.70304

Internal switching power(pJ) to X rising:

C.II N	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A0	0.01860	0.00100	0.01470	0.32940	0.06480	0.01484	2.50740	0.30000	0.01560			
	A1	0.01860	0.00100	0.00949	0.32940	0.06480	0.00961	2.50740	0.30000	0.01035			
12-24 1	A2	0.01860	0.00100	0.01470	0.32940	0.06480	0.01488	2.50740	0.30000	0.01553			
sg13g2_mux4_1	A3	0.01860	0.00100	0.00971	0.32940	0.06480	0.00984	2.50740	0.30000	0.01056			
	SO	0.01860	0.00100	0.00502	0.32940	0.06480	0.00389	2.50740	0.30000	0.00559			
	S1	0.01860	0.00100	0.00582	0.32940	0.06480	0.00666	2.50740	0.30000	0.00823			

Internal switching power(pJ) to X falling:

C.II N	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A0	0.01860	0.00100	0.00940	0.32940	0.06480	0.00960	2.50740	0.30000	0.01050			
	A1	0.01860	0.00100	0.00978	0.32940	0.06480	0.00997	2.50740	0.30000	0.01096			
12-24 1	A2	0.01860	0.00100	0.01011	0.32940	0.06480	0.01030	2.50740	0.30000	0.01130			
sg13g2_mux4_1	A3	0.01860	0.00100	0.01007	0.32940	0.06480	0.01026	2.50740	0.30000	0.01117			
	SO	0.01860	0.00100	0.00493	0.32940	0.06480	0.00682	2.50740	0.30000	0.01152			
	S1	0.01860	0.00100	0.00387	0.32940	0.06480	0.00407	2.50740	0.30000	0.00624			

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

CHN		***					Power(pJ)				
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	SO	(A2 * !A3 * S1)	0.01860	0.00100	0.00924	0.32940	0.06480	0.00949	2.50740	0.30000	0.00911
	S0 !A. S0 !A. S0 !A. S0 !A. S0 !A. S0 !A. S1 !A. S1 !A. S2 S1 !A. S3 S1 !A.	(A0 * !A1 * !S1)	0.01860	0.00100	0.00919	0.32940	0.06480	0.00954	2.50740	0.30000	0.00904
	SO	(!A2 * A3 * S1)	0.01860	0.00100	0.00502	0.32940	0.06480	0.00389	2.50740	0.30000	0.00559
aa12a2 muud 1	SO	(!A0 * A1 * !S1)	0.01860	0.00100	0.00262	0.32940	0.06480	0.00033	2.50740	0.30000	0.00431
sg13g2_mux4_1	S1	(A1 * !A3 * S0)	0.01860	0.00100	0.00582	0.32940	0.06480	0.00666	2.50740	0.30000	0.00823
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	0.00620	0.32940	0.06480	0.00705	2.50740	0.30000	0.00839
_	S1	(!A1 * A3 * S0)	0.01860	0.00100	0.00378	0.32940	0.06480	0.00395	2.50740	0.30000	0.00561
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	0.00384	0.32940	0.06480	0.00401	2.50740	0.30000	0.00561

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

C H V		***]	Power(pJ)				
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	S0	(A2 * !A3 * S1)	0.01860	0.00100	0.01010	0.32940	0.06480	0.01034	2.50740	0.30000	0.01008
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	0.00973	0.32940	0.06480	0.01071	2.50740	0.30000	0.01048
	SO	(!A2 * A3 * S1)	0.01860	0.00100	0.00548	0.32940	0.06480	0.00633	2.50740	0.30000	0.01117
	SO	(!A0 * A1 * !S1)	0.01860	0.00100	0.00493	0.32940	0.06480	0.00682	2.50740	0.30000	0.01152
sg13g2_mux4_1	S1	(A1 * !A3 * S0)	0.01860	0.00100	0.00623	0.32940	0.06480	0.00715	2.50740	0.30000	0.00905
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	0.00629	0.32940	0.06480	0.00720	2.50740	0.30000	0.00912
_	S1	(!A1 * A3 * S0)	0.01860	0.00100	0.00368	0.32940	0.06480	0.00391	2.50740	0.30000	0.00598
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	0.00387	0.32940	0.06480	0.00407	2.50740	0.30000	0.00624

Passive power(pJ) for S0 rising:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_mux4_1	0.01860	0.01130	0.32940	0.01322	2.50740	0.01579		

Passive power(pJ) for S0 falling :

Call Name	Power(pJ)					
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) Las					
sg13g2_mux4_1	0.01860	0.01023	0.32940	0.01002	2.50740	0.01217

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

C-II N Wil		Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(A2 * A3 * S1)	0.01860	0.01130	0.32940	0.01322	2.50740	0.01579	
12.2	(A0 * A1 * !S1)	0.01860	0.01139	0.32940	0.01411	2.50740	0.01656	
sg13g2_mux4_1	(!A2 * !A3 * S1)	0.01860	0.00652	0.32940	0.00615	2.50740	0.01124	
	(!A0 * !A1 * !S1)	0.01860	0.00733	0.32940	0.00685	2.50740	0.01183	

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

Call Manne		Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(A2 * A3 * S1)	0.01860	0.00980	0.32940	0.00952	2.50740	0.01168	
12.2	(A0 * A1 * !S1)	0.01860	0.01023	0.32940	0.01002	2.50740	0.01217	
sg13g2_mux4_1	(!A2 * !A3 * S1)	0.01860	0.00972	0.32940	0.00941	2.50740	0.01154	
	(!A0 * !A1 * !S1)	0.01860	0.01169	0.32940	0.01478	2.50740	0.01697	

Passive power(pJ) for S1 rising:

Call Name	Power(pJ)					
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) La					
sg13g2_mux4_1	0.01860	0.00330	0.32940	0.00318	2.50740	0.00592

Passive power(pJ) for S1 falling:

Call Name	Power(pJ)					
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) Last					
sg13g2_mux4_1	0.01860	0.00319	0.32940	0.00315	2.50740	0.00589

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

Call Name		Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(A1 * A3 * S0)	0.01860	0.00257	0.32940	0.00246	2.50740	0.00520	
12.2	(A0 * A2 * !S0)	0.01860	0.00257	0.32940	0.00246	2.50740	0.00519	
sg13g2_mux4_1	(!A1 * !A3 * S0)	0.01860	0.00330	0.32940	0.00318	2.50740	0.00592	
	(!A0 * !A2 * !S0)	0.01860	0.00333	0.32940	0.00322	2.50740	0.00597	

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

C-II N Wil		Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(A1 * A3 * S0)	0.01860	0.00246	0.32940	0.00244	2.50740	0.00528	
12.2	(A0 * A2 * !S0)	0.01860	0.00246	0.32940	0.00244	2.50740	0.00527	
sg13g2_mux4_1	(!A1 * !A3 * S0)	0.01860	0.00319	0.32940	0.00315	2.50740	0.00589	
	(!A0 * !A2 * !S0)	0.01860	0.00323	0.32940	0.00318	2.50740	0.00591	

NAND2B1



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT		OUTPUT
A_N	В	Y
X	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
sg13g2_nand2b_1	9.07200

Pin Capacitance Information

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	A_N	В	Y
sg13g2_nand2b_1	0.00209	0.00283	0.30000

Call Name		Leakage(pW)					
Cell Name	Min.	Avg	Max.				
sg13g2_nand2b_1	215.73000	541.44500	1046.64000				

Delay Information Delay(ns) to Y rising:

Call Name	Timing	iming Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
40.0	A_N->Y (RR)	0.01860	0.00100	0.07817	0.32940	0.06480	0.47937	2.50740	0.30000	1.78877
sg13g2_nand2b_1	B->Y (FR)	0.01860	0.00100	0.03643	0.32940	0.06480	0.49822	2.50740	0.30000	2.70774

Delay(ns) to Y falling:

Cell Name	Timing		Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
12.2 121. 1	A_N->Y (FF)	0.01860	0.00100	0.09425	0.32940	0.06480	0.64510	2.50740	0.30000	2.46845	
sg13g2_nand2b_1	B->Y (RF)	0.01860	0.00100	0.05694	0.32940	0.06480	0.64842	2.50740	0.30000	3.29969	

Internal switching power(pJ) to Y rising:

Call Name	T4	Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-2 mand2h 1	A_N	0.01860	0.00100	0.00180	0.32940	0.06480	0.00198	2.50740	0.30000	0.00122
sg13g2_nand2b_1	В	0.01860	0.00100	0.00179	0.32940	0.06480	0.00170	2.50740	0.30000	0.00140

Internal switching power(pJ) to Y falling:

Call Name	T4	Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
221222 mand2h 1	A_N	0.01860	0.00100	0.00322	0.32940	0.06480	0.00333	2.50740	0.30000	0.00269
sg13g2_nand2b_1	В	0.01860	0.00100	0.00334	0.32940	0.06480	0.00328	2.50740	0.30000	0.00301

Passive power(pJ) for A_N rising:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand2b_1	0.01860	0.00307	0.32940	0.00296	2.50740	0.00514		

Passive power(pJ) for A_N falling:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand2b_1	0.01860	0.00198	0.32940	0.00187	2.50740	0.00398		

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

Call Name Whe		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand2b_1	!B	0.01860	0.00307	0.32940	0.00296	2.50740	0.00514		

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

Call Name	When	Power(pJ)							
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand2b_1	!B	0.01860	0.00198	0.32940	0.00187	2.50740	0.00398		

NAND2B2



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPU	J T	OUTPUT
A_N	В	Y
х	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
sg13g2_nand2b_2	14.51520

Pin Capacitance Information

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	A_N	В	Y
sg13g2_nand2b_2	0.00206	0.00529	0.60000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_nand2b_2	360.32300	852.36700	2001.46000				

Delay Information Delay(ns) to Y rising:

Cell Name	Timing		Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
12-212h 2	A_N->Y (RR)	0.01860	0.00100	0.10281	0.32940	0.12960	0.53005	2.50740	0.60000	1.91612	
sg13g2_nand2b_2	B->Y (FR)	0.01860	0.00100	0.02763	0.32940	0.12960	0.49070	2.50740	0.60000	2.69952	

Delay(ns) to Y falling:

Call Name	Timing	Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12.2 121. 2	A_N->Y (FF)	0.01860	0.00100	0.12757	0.32940	0.12960	0.72749	2.50740	0.60000	2.72480
sg13g2_nand2b_2	B->Y (RF)	0.01860	0.00100	0.04004	0.32940	0.12960	0.66780	2.50740	0.60000	3.49744

Internal switching power(pJ) to Y rising:

Call Name	T4		Power(pJ)							
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-2 mand2h 2	A_N	0.01860	0.00100	0.00310	0.32940	0.12960	0.00326	2.50740	0.60000	0.00201
sg13g2_nand2b_2	В	0.01860	0.00100	0.00248	0.32940	0.12960	0.00283	2.50740	0.60000	0.00224

Internal switching power(pJ) to Y falling:

Call Name	T4		Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
221222 mand2h 2	A_N	0.01860	0.00100	0.00673	0.32940	0.12960	0.00726	2.50740	0.60000	0.00665	
sg13g2_nand2b_2	В	0.01860	0.00100	0.00382	0.32940	0.12960	0.00391	2.50740	0.60000	0.00379	

Passive power(pJ) for A_N rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_nand2b_2	0.01860	0.00528	0.32940	0.00497	2.50740	0.00676			

Passive power(pJ) for A_N falling:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_nand2b_2	0.01860	0.00463	0.32940	0.00441	2.50740	0.00623			

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

Call Name	When	Power(pJ)							
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand2b_2	!B	0.01860	0.00528	0.32940	0.00497	2.50740	0.00676		

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

Call Name	When	Power(pJ)							
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand2b_2	!B	0.01860	0.00463	0.32940	0.00441	2.50740	0.00623		

NAND2x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INP	UT	OUTPUT
A	В	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

Call Name	Pin C	ap(pf)	Max Cap(pf)		
Cell Name	A	В	Y		
sg13g2_nand2_2	0.00527	0.00534	0.60000		
sg13g2_nand2_1	0.00272	0.00279	0.30000		

Call Name		Leakage(pW)					
Cell Name	Min.	Avg	Max.				
sg13g2_nand2_2	88.79480	627.16600	1910.22000				
sg13g2_nand2_1	45.54620	316.19300	955.36800				

Delay Information Delay(ns) to Y rising:

Call Name	Timing	Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_nand2_2	A->Y (FR)	0.01860	0.00100	0.02794	0.32940	0.12960	0.49145	2.50740	0.60000	2.70126		
	B->Y (FR)	0.01860	0.00100	0.03373	0.32940	0.12960	0.49787	2.50740	0.60000	2.71013		
12-2	A->Y (FR)	0.01860	0.00100	0.03144	0.32940	0.06480	0.49156	2.50740	0.30000	2.69915		
sg13g2_nand2_1	B->Y (FR)	0.01860	0.00100	0.03675	0.32940	0.06480	0.49747	2.50740	0.30000	2.70620		

Delay(ns) to Y falling:

C. II N	Timing	Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
	A->Y (RF)	0.01860	0.00100	0.04047	0.32940	0.12960	0.66751	2.50740	0.60000	3.49634		
sg13g2_nand2_2	B->Y (RF)	0.01860	0.00100	0.04949	0.32940	0.12960	0.66226	2.50740	0.60000	3.37730		
ag12g2 mond2 1	A->Y (RF)	0.01860	0.00100	0.04456	0.32940	0.06480	0.65010	2.50740	0.30000	3.41195		
sg13g2_nand2_1	B->Y (RF)	0.01860	0.00100	0.05219	0.32940	0.06480	0.64371	2.50740	0.30000	3.29233		

Internal switching power(pJ) to Y rising:

Call Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_nand2_2	A	0.01860	0.00100	0.00250	0.32940	0.12960	0.00277	2.50740	0.60000	0.00224			
	В	0.01860	0.00100	0.00337	0.32940	0.12960	0.00330	2.50740	0.60000	0.00273			
12-212 1	A	0.01860	0.00100	0.00145	0.32940	0.06480	0.00155	2.50740	0.30000	0.00124			
sg13g2_nand2_1	В	0.01860	0.00100	0.00168	0.32940	0.06480	0.00164	2.50740	0.30000	0.00130			

Internal switching power(pJ) to Y falling:

Cell Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
221222 mand2 2	A	0.01860	0.00100	0.00383	0.32940	0.12960	0.00395	2.50740	0.60000	0.00369			
sg13g2_nand2_2	В	0.01860	0.00100	0.00635	0.32940	0.12960	0.00626	2.50740	0.60000	0.00594			
12-2 12 1	A	0.01860	0.00100	0.00203	0.32940	0.06480	0.00203	2.50740	0.30000	0.00191			
sg13g2_nand2_1	В	0.01860	0.00100	0.00332	0.32940	0.06480	0.00326	2.50740	0.30000	0.00304			

NAND3B1



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INI	PUT	[OUTPUT
A_N	В	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

Call Name		Pin Cap(pf)	Max Cap(pf)	
Cell Name	A_N	В	C	Y
sg13g2_nand3b_1	0.00207	0.00278	0.00280	0.30000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_nand3b_1	138.73100	476.68900	1524.28000					

Delay Information Delay(ns) to Y rising:

Call Name	Timing	Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
	A_N->Y (RR)	0.01860	0.00100	0.08280	0.32940	0.06480	0.48225	2.50740	0.30000	1.78784		
sg13g2_nand3b_1	B->Y (FR)	0.01860	0.00100	0.04133	0.32940	0.06480	0.50271	2.50740	0.30000	2.71270		
	C->Y (FR)	0.01860	0.00100	0.04462	0.32940	0.06480	0.50777	2.50740	0.30000	2.71796		

Delay(ns) to Y falling:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	0.11710	0.32940	0.06480	0.86202	2.50740	0.30000	3.40626	
	B->Y (RF)	0.01860	0.00100	0.08766	0.32940	0.06480	0.86583	2.50740	0.30000	4.19727	
	C->Y (RF)	0.01860	0.00100	0.09386	0.32940	0.06480	0.85715	2.50740	0.30000	4.03595	

Internal switching power(pJ) to Y rising:

Cell Name	T4		Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_nand3b_1	A_N	0.01860	0.00100	0.00181	0.32940	0.06480	0.00196	2.50740	0.30000	0.00116		
	В	0.01860	0.00100	0.00195	0.32940	0.06480	0.00191	2.50740	0.30000	0.00154		
	С	0.01860	0.00100	0.00215	0.32940	0.06480	0.00204	2.50740	0.30000	0.00167		

Internal switching power(pJ) to Y falling:

Call Name	T4	Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A_N	0.01860	0.00100	0.00448	0.32940	0.06480	0.00470	2.50740	0.30000	0.00450	
sg13g2_nand3b_1	В	0.01860	0.00100	0.00439	0.32940	0.06480	0.00436	2.50740	0.30000	0.00456	
	C	0.01860	0.00100	0.00551	0.32940	0.06480	0.00543	2.50740	0.30000	0.00549	

Passive power(pJ) for A_N rising:

Cell Name	Power(pJ)							
	Slew(ns)	Slew(ns) First Slew(ns) Mid		Slew(ns)	Last			
sg13g2_nand3b_1	0.01860	0.00317	0.32940	0.00305	2.50740	0.00524		

Passive power(pJ) for A_N falling:

Cell Name	Power(pJ)							
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand3b_1	0.01860	0.00181	0.32940	0.00169	2.50740	0.00381		

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

Cell Name	When	Power(pJ)							
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	0.00317	0.32940	0.00305	2.50740	0.00524		

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

Cell Name	When	Power(pJ)							
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	0.00181	0.32940	0.00169	2.50740	0.00381		

NAND3



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

IN	PU	J T	OUTPUT
A	В	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	В	C	Y	
sg13g2_nand3_1	0.00272	0.00282	0.00279	0.30000	

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_nand3_1	38.55740	251.45900	1433.05000				

Delay Information Delay(ns) to Y rising:

l Cell Name	Timing	Delay(ns)								
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (FR)	0.01860	0.00100	0.03591	0.32940	0.06480	0.49605	2.50740	0.30000	2.70471
	B->Y (FR)	0.01860	0.00100	0.04162	0.32940	0.06480	0.50220	2.50740	0.30000	2.71170
	C->Y (FR)	0.01860	0.00100	0.04421	0.32940	0.06480	0.50730	2.50740	0.30000	2.71730

Delay(ns) to Y falling:

T CEILNAME I	Timing	Delay(ns)								
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (RF)	0.01860	0.00100	0.06872	0.32940	0.06480	0.85383	2.50740	0.30000	4.25251
	B->Y (RF)	0.01860	0.00100	0.08298	0.32940	0.06480	0.86113	2.50740	0.30000	4.18991
	C->Y (RF)	0.01860	0.00100	0.08906	0.32940	0.06480	0.85235	2.50740	0.30000	4.02846

Internal switching power(pJ) to Y rising:

Call Name	T4	Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	0.01860	0.00100	0.00157	0.32940	0.06480	0.00164	2.50740	0.30000	0.00130	
sg13g2_nand3_1	В	0.01860	0.00100	0.00181	0.32940	0.06480	0.00168	2.50740	0.30000	0.00135	
	С	0.01860	0.00100	0.00203	0.32940	0.06480	0.00187	2.50740	0.30000	0.00152	

Internal switching power(pJ) to Y falling:

Cell Name	I4	Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
	A	0.01860	0.00100	0.00312	0.32940	0.06480	0.00311	2.50740	0.30000	0.00335		
sg13g2_nand3_1	В	0.01860	0.00100	0.00443	0.32940	0.06480	0.00438	2.50740	0.30000	0.00456		
	С	0.01860	0.00100	0.00551	0.32940	0.06480	0.00547	2.50740	0.30000	0.00562		

NAND4



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INF	PUT	1	OUTPUT
A	В	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

Call Name		Max Cap(pf)			
Cell Name	A	В	C	D	Y
sg13g2_nand4_1	0.00271	0.00282	0.00284	0.00281	0.30000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_nand4_1	39.19550	184.41800	1910.79000				

Delay Information Delay(ns) to Y rising:

Call Name	Timing	Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (FR)	0.01860	0.00100	0.03825	0.32940	0.06480	0.49846	2.50740	0.30000	2.70879
	B->Y (FR)	0.01860	0.00100	0.04415	0.32940	0.06480	0.50477	2.50740	0.30000	2.71443
sg13g2_nand4_1	C->Y (FR)	0.01860	0.00100	0.04731	0.32940	0.06480	0.51030	2.50740	0.30000	2.72280
	D->Y (FR)	0.01860	0.00100	0.04832	0.32940	0.06480	0.51472	2.50740	0.30000	2.72958

Delay(ns) to Y falling:

Call Name	Timing	Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (RF)	0.01860	0.00100	0.09171	0.32940	0.06480	1.06269	2.50740	0.30000	5.11221
	B->Y (RF)	0.01860	0.00100	0.11324	0.32940	0.06480	1.08153	2.50740	0.30000	5.09375
sg13g2_nand4_1	C->Y (RF)	0.01860	0.00100	0.12561	0.32940	0.06480	1.08260	2.50740	0.30000	4.96387
	D->Y (RF)	0.01860	0.00100	0.13152	0.32940	0.06480	1.08288	2.50740	0.30000	4.85366

Internal switching power(pJ) to Y rising:

Call Name	T4	Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	0.01860	0.00100	0.00160	0.32940	0.06480	0.00169	2.50740	0.30000	0.00135	
	В	0.01860	0.00100	0.00184	0.32940	0.06480	0.00175	2.50740	0.30000	0.00138	
sg13g2_nand4_1	C	0.01860	0.00100	0.00209	0.32940	0.06480	0.00189	2.50740	0.30000	0.00157	
	D	0.01860	0.00100	0.00229	0.32940	0.06480	0.00211	2.50740	0.30000	0.00182	

Internal switching power(pJ) to Y falling:

Call Name	T4	Power(pJ)										
Cell Name Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A	0.01860	0.00100	0.00375	0.32940	0.06480	0.00374	2.50740	0.30000	0.00347		
12-214 1	В	0.01860	0.00100	0.00504	0.32940	0.06480	0.00490	2.50740	0.30000	0.00469		
sg13g2_nand4_1	С	0.01860	0.00100	0.00616	0.32940	0.06480	0.00608	2.50740	0.30000	0.00580		
	D	0.01860	0.00100	0.00723	0.32940	0.06480	0.00714	2.50740	0.30000	0.00677		

NOR2Bx



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

IN	PUT	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

Call Name	Pin C	ap(pf)	Max Cap(pf)	
Cell Name	A	B_N	Y	
sg13g2_nor2b_2	0.00535	0.00251	0.60000	
sg13g2_nor2b_1	0.00276	0.00212	0.30000	

Call Name		Leakage(pW)					
Cell Name	Min.	Avg	Max.				
sg13g2_nor2b_2	612.90500	1082.38000	1394.65000				
sg13g2_nor2b_1	342.14900	634.14600	843.06700				

Delay Information Delay(ns) to Y rising:

Call Name	Timing		Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
ag12g2 mam2h 2	A->Y (FR)	0.01860	0.00100	0.04470	0.32940	0.12960	0.78212	2.50740	0.60000	3.96169	
-	B_N->Y (RR)	0.01860	0.00100	0.11884	0.32940	0.12960	0.84095	2.50740	0.60000	3.31257	
12-22h 1	A->Y (FR)	0.01860	0.00100	0.05237	0.32940	0.06480	0.78416	2.50740	0.30000	3.96498	
sg13g2_nor2b_1	B_N->Y (RR)	0.01860	0.00100	0.10852	0.32940	0.06480	0.80838	2.50740	0.30000	3.22544	

Delay(ns) to Y falling:

Call Name	Timing	Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-22h 2	A->Y (RF)	0.01860	0.00100	0.02758	0.32940	0.12960	0.47275	2.50740	0.60000	2.63983
sg13g2_nor2b_2	B_N->Y (FF)	0.01860	0.00100	0.10429	0.32940	0.12960	0.49403	2.50740	0.60000	1.69698
12.2 21.1	A->Y (RF)	0.01860	0.00100	0.03040	0.32940	0.06480	0.46336	2.50740	0.30000	2.58525
sg13g2_nor2b_1	B_N->Y (FF)	0.01860	0.00100	0.08777	0.32940	0.06480	0.44810	2.50740	0.30000	1.56625

Internal switching power(pJ) to Y rising:

C.II N	T4	Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-22k 2	A	0.01860	0.00100	0.00358	0.32940	0.12960	0.00374	2.50740	0.60000	0.00413
sg13g2_nor2b_2	B_N	0.01860	0.00100	0.00735	0.32940	0.12960	0.00756	2.50740	0.60000	0.00767
12-22h 1	A	0.01860	0.00100	0.00182	0.32940	0.06480	0.00183	2.50740	0.30000	0.00200
sg13g2_nor2b_1	B_N	0.01860	0.00100	0.00378	0.32940	0.06480	0.00379	2.50740	0.30000	0.00380

Internal switching power(pJ) to Y falling:

Call Name	T4	Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-22h 2	A	0.01860	0.00100	0.00252	0.32940	0.12960	0.00277	2.50740	0.60000	0.00220
sg13g2_nor2b_2	B_N	0.01860	0.00100	0.00355	0.32940	0.12960	0.00366	2.50740	0.60000	0.00251
12-22h 1	A	0.01860	0.00100	0.00162	0.32940	0.06480	0.00166	2.50740	0.30000	0.00144
sg13g2_nor2b_1	B_N	0.01860	0.00100	0.00194	0.32940	0.06480	0.00189	2.50740	0.30000	0.00152

Passive power(pJ) for B_N rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_nor2b_2	0.01860	0.00500	0.32940	0.00473	2.50740	0.00709			
sg13g2_nor2b_1	0.01860	0.00295	0.32940	0.00278	2.50740	0.00490			

Passive power(pJ) for B_N falling:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_nor2b_2	0.01860	0.00500	0.32940	0.00476	2.50740	0.00697			
sg13g2_nor2b_1	0.01860	0.00299	0.32940	0.00283	2.50740	0.00485			

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

Call Name	Where	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_nor2b_2	A	0.01860	0.00500	0.32940	0.00473	2.50740	0.00709	
sg13g2_nor2b_1	A	0.01860	0.00295	0.32940	0.00278	2.50740	0.00490	

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

Call Name	When	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_nor2b_2	A	0.01860	0.00500	0.32940	0.00476	2.50740	0.00697	
sg13g2_nor2b_1	A	0.01860	0.00299	0.32940	0.00283	2.50740	0.00485	

NOR2x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INP	UT	OUTPUT
A	В	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 C	ap(pf)	Max Cap(pf)
Cell Name	A	В	Y
sg13g2_nor2_2	0.00540	0.00527	0.30000
sg13g2_nor2_1	0.00284	0.00276	0.30000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_nor2_2	501.84400	817.90200	1261.26000				
sg13g2_nor2_1	250.90500	408.94600	630.63300				

Delay Information Delay(ns) to Y rising:

Cell Name	Timing	Delay(ns)									
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_nor2_2	A->Y (FR)	0.01860	0.00100	0.05725	0.32940	0.06480	0.48226	2.50740	0.30000	2.37841	
	B->Y (FR)	0.01860	0.00100	0.04521	0.32940	0.06480	0.48813	2.50740	0.30000	2.54426	
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	0.06143	0.32940	0.06480	0.77408	2.50740	0.30000	3.78247	
	B->Y (FR)	0.01860	0.00100	0.05258	0.32940	0.06480	0.78365	2.50740	0.30000	3.96350	

Delay(ns) to Y falling:

Cell Name	Timing		Delay(ns)									
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_nor2_2	A->Y (RF)	0.01860	0.00100	0.03274	0.32940	0.06480	0.33229	2.50740	0.30000	1.82429		
	B->Y (RF)	0.01860	0.00100	0.02719	0.32940	0.06480	0.32412	2.50740	0.30000	1.81327		
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	0.03513	0.32940	0.06480	0.46908	2.50740	0.30000	2.59282		
	B->Y (RF)	0.01860	0.00100	0.03051	0.32940	0.06480	0.46342	2.50740	0.30000	2.58520		

Internal switching power(pJ) to Y rising:

Cell Name	Input		Power(pJ)									
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
12.2	A	0.01860	0.00100	0.00692	0.32940	0.06480	0.00689	2.50740	0.30000	0.00692		
sg13g2_nor2_2	В	0.01860	0.00100	0.00365	0.32940	0.06480	0.00376	2.50740	0.30000	0.00429		
sg13g2_nor2_1	A	0.01860	0.00100	0.00342	0.32940	0.06480	0.00334	2.50740	0.30000	0.00363		
	В	0.01860	0.00100	0.00183	0.32940	0.06480	0.00185	2.50740	0.30000	0.00204		

Internal switching power(pJ) to \boldsymbol{Y} falling :

Cell Name	I4	Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
12-22 2	A	0.01860	0.00100	0.00361	0.32940	0.06480	0.00335	2.50740	0.30000	0.00424	
sg13g2_nor2_2	В	0.01860	0.00100	0.00246	0.32940	0.06480	0.00271	2.50740	0.30000	0.00363	
sg13g2_nor2_1	A	0.01860	0.00100	0.00179	0.32940	0.06480	0.00160	2.50740	0.30000	0.00148	
	В	0.01860	0.00100	0.00162	0.32940	0.06480	0.00166	2.50740	0.30000	0.00145	

NOR3x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

IN	PU	J T	OUTPUT
A	В	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	В	C	Y		
sg13g2_nor3_2	0.00536	0.00537	0.00526	0.60000		
sg13g2_nor3_1	0.00281	0.00283	0.00274	0.30000		

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_nor3_2	435.65700	936.23400	1629.82000				
sg13g2_nor3_1	218.47100	471.46400	815.12200				

Delay Information Delay(ns) to Y rising:

C.II N.	Timing		Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_nor3_2	A->Y (FR)	0.01860	0.00100	0.10452	0.32940	0.12960	1.10954	2.50740	0.60000	5.01661	
	B->Y (FR)	0.01860	0.00100	0.09760	0.32940	0.12960	1.11367	2.50740	0.60000	5.18981	
	C->Y (FR)	0.01860	0.00100	0.07082	0.32940	0.12960	1.09588	2.50740	0.60000	5.27778	
	A->Y (FR)	0.01860	0.00100	0.11625	0.32940	0.06480	1.11034	2.50740	0.30000	5.00753	
sg13g2_nor3_1	B->Y (FR)	0.01860	0.00100	0.10888	0.32940	0.06480	1.11326	2.50740	0.30000	5.17843	
	C->Y (FR)	0.01860	0.00100	0.08545	0.32940	0.06480	1.09862	2.50740	0.30000	5.26933	

Delay(ns) to Y falling:

Cell Name	Timing		Delay(ns)								
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_nor3_2	A->Y (RF)	0.01860	0.00100	0.03672	0.32940	0.12960	0.47839	2.50740	0.60000	2.60464	
	B->Y (RF)	0.01860	0.00100	0.03629	0.32940	0.12960	0.47275	2.50740	0.60000	2.59951	
	C->Y (RF)	0.01860	0.00100	0.03016	0.32940	0.12960	0.46600	2.50740	0.60000	2.58996	
	A->Y (RF)	0.01860	0.00100	0.03934	0.32940	0.06480	0.46713	2.50740	0.30000	2.54357	
sg13g2_nor3_1	B->Y (RF)	0.01860	0.00100	0.03856	0.32940	0.06480	0.46254	2.50740	0.30000	2.53923	
	C->Y (RF)	0.01860	0.00100	0.03329	0.32940	0.06480	0.45599	2.50740	0.30000	2.53094	

Internal switching power(pJ) to Y rising:

Cell Name	T4	Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	0.01860	0.00100	0.01118	0.32940	0.12960	0.01098	2.50740	0.60000	0.01098	
sg13g2_nor3_2	В	0.01860	0.00100	0.00839	0.32940	0.12960	0.00820	2.50740	0.60000	0.00808	
	С	0.01860	0.00100	0.00519	0.32940	0.12960	0.00516	2.50740	0.60000	0.00527	
	A	0.01860	0.00100	0.00579	0.32940	0.06480	0.00566	2.50740	0.30000	0.00566	
sg13g2_nor3_1	В	0.01860	0.00100	0.00440	0.32940	0.06480	0.00429	2.50740	0.30000	0.00427	
	C	0.01860	0.00100	0.00285	0.32940	0.06480	0.00279	2.50740	0.30000	0.00300	

Internal switching power(pJ) to Y falling:

Cell Name	I4	Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	0.01860	0.00100	0.00443	0.32940	0.12960	0.00394	2.50740	0.60000	0.00344	
sg13g2_nor3_2	В	0.01860	0.00100	0.00396	0.32940	0.12960	0.00362	2.50740	0.60000	0.00321	
	С	0.01860	0.00100	0.00268	0.32940	0.12960	0.00295	2.50740	0.60000	0.00256	
	A	0.01860	0.00100	0.00242	0.32940	0.06480	0.00216	2.50740	0.30000	0.00206	
sg13g2_nor3_1	В	0.01860	0.00100	0.00213	0.32940	0.06480	0.00194	2.50740	0.30000	0.00184	
	С	0.01860	0.00100	0.00171	0.32940	0.06480	0.00176	2.50740	0.30000	0.00169	

NOR4x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INF	PUT	OUTPUT	
A	В	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

Call Name		Pin Cap(pf)								
Cell Name	A	В	C	D	Y					
sg13g2_nor4_2	0.00535	0.00533	0.00530	0.00522	0.60000					
sg13g2_nor4_1	0.00278	0.00281	0.00278	0.00268	0.30000					

Call Nama	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_nor4_2	418.34400	895.97400	1991.75000					
sg13g2_nor4_1	209.16800	447.98500	995.88700					

Delay Information Delay(ns) to Y rising:

Call Massa	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (FR)	0.01860	0.00100	0.16865	0.32940	0.12960	1.47284	2.50740	0.60000	6.36294
	B->Y (FR)	0.01860	0.00100	0.16239	0.32940	0.12960	1.46977	2.50740	0.60000	6.47487
sg13g2_nor4_2	C->Y (FR)	0.01860	0.00100	0.14069	0.32940	0.12960	1.45328	2.50740	0.60000	6.59887
	D->Y (FR)	0.01860	0.00100	0.09738	0.32940	0.12960	1.41440	2.50740	0.60000	6.63212
	A->Y (FR)	0.01860	0.00100	0.17619	0.32940	0.06480	1.46474	2.50740	0.30000	6.33764
221222 224 1	B->Y (FR)	0.01860	0.00100	0.16987	0.32940	0.06480	1.46098	2.50740	0.30000	6.44856
sg13g2_nor4_1	C->Y (FR)	0.01860	0.00100	0.15077	0.32940	0.06480	1.44811	2.50740	0.30000	6.57651
	D->Y (FR)	0.01860	0.00100	0.11252	0.32940	0.06480	1.41501	2.50740	0.30000	6.61385

Delay(ns) to Y falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (RF)	0.01860	0.00100	0.03885	0.32940	0.12960	0.48647	2.50740	0.60000	2.61693
	B->Y (RF)	0.01860	0.00100	0.04018	0.32940	0.12960	0.48257	2.50740	0.60000	2.61147
sg13g2_nor4_2	C->Y (RF)	0.01860	0.00100	0.03867	0.32940	0.12960	0.47641	2.50740	0.60000	2.60278
	D->Y (RF)	0.01860	0.00100	0.03264	0.32940	0.12960	0.46754	2.50740	0.60000	2.59104
	A->Y (RF)	0.01860	0.00100	0.04201	0.32940	0.06480	0.48612	2.50740	0.30000	2.61594
12-2 1	B->Y (RF)	0.01860	0.00100	0.04313	0.32940	0.06480	0.48259	2.50740	0.30000	2.61250
	C->Y (RF)	0.01860	0.00100	0.04136	0.32940	0.06480	0.47684	2.50740	0.30000	2.60436
	D->Y (RF)	0.01860	0.00100	0.03568	0.32940	0.06480	0.46979	2.50740	0.30000	2.59523

Internal switching power(pJ) to Y rising:

Cell Name	T 4	Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	0.01860	0.00100	0.01519	0.32940	0.12960	0.01496	2.50740	0.60000	0.01473	
12.2 4.2	В	0.01860	0.00100	0.01252	0.32940	0.12960	0.01228	2.50740	0.60000	0.01224	
sg13g2_nor4_2	C	0.01860	0.00100	0.00982	0.32940	0.12960	0.00957	2.50740	0.60000	0.00974	
	D	0.01860	0.00100	0.00663	0.32940	0.12960	0.00660	2.50740	0.60000	0.00688	
	A	0.01860	0.00100	0.00748	0.32940	0.06480	0.00735	2.50740	0.30000	0.00729	
12-24 1	В	0.01860	0.00100	0.00613	0.32940	0.06480	0.00601	2.50740	0.30000	0.00591	
sg13g2_nor4_1	С	0.01860	0.00100	0.00479	0.32940	0.06480	0.00465	2.50740	0.30000	0.00465	
	D	0.01860	0.00100	0.00326	0.32940	0.06480	0.00320	2.50740	0.30000	0.00338	

Internal switching power(pJ) to Y falling:

Call Name	T 4	Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	0.01860	0.00100	0.00552	0.32940	0.12960	0.00493	2.50740	0.60000	0.00434	
12-24 2	В	0.01860	0.00100	0.00508	0.32940	0.12960	0.00458	2.50740	0.60000	0.00402	
sg13g2_nor4_2	С	0.01860	0.00100	0.00399	0.32940	0.12960	0.00383	2.50740	0.60000	0.00349	
	D	0.01860	0.00100	0.00276	0.32940	0.12960	0.00302	2.50740	0.60000	0.00256	
	A	0.01860	0.00100	0.00279	0.32940	0.06480	0.00251	2.50740	0.30000	0.00221	
12-24 1	В	0.01860	0.00100	0.00258	0.32940	0.06480	0.00234	2.50740	0.30000	0.00207	
sg13g2_nor4_1	C	0.01860	0.00100	0.00220	0.32940	0.06480	0.00211	2.50740	0.30000	0.00184	
	D	0.01860	0.00100	0.00175	0.32940	0.06480	0.00186	2.50740	0.30000	0.00161	

NP_ANT



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT						
A						
X						

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
Cen Name	A
sg13g2_antennanp	0.00112

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_antennanp	3.56270	3.56540	3.56810			

Passive Power Information

Passive power(pJ) for A rising:

Cell Name		Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_antennanp	0.01860	-0.00025	0.32940	-0.00025	2.50740	-0.00025				

Passive power(pJ) for A falling:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_antennanp	0.01860	0.00025	0.32940	0.00025	2.50740	0.00025			

O21AI



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

I	NPU'	Т	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

Call Name		Pin Cap(pf)	Max Cap(pf)		
Cell Name	A1	A2	Y		
sg13g2_o21ai_1	0.00313	0.00314	0.00303	0.30000	

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_o21ai_1	110.29500	493.33800	1064.93000				

Delay Information Delay(ns) to Y rising:

Cell Name	Timing		Delay(ns)								
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_o21ai_1	A1->Y (FR)	0.01860	0.00100	0.09722	0.32940	0.06480	0.90822	2.50740	0.30000	4.24816	
	A2->Y (FR)	0.01860	0.00100	0.08640	0.32940	0.06480	0.91514	2.50740	0.30000	4.45320	
	B1->Y (FR)	0.01860	0.00100	0.03619	0.32940	0.06480	0.54801	2.50740	0.30000	2.96479	

Delay(ns) to Y falling:

Cell Name	Timing	Delay(ns)								
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (RF)	0.01860	0.00100	0.07059	0.32940	0.06480	0.66383	2.50740	0.30000	3.26747
	A2->Y (RF)	0.01860	0.00100	0.05943	0.32940	0.06480	0.65004	2.50740	0.30000	3.24969
	B1->Y (RF)	0.01860	0.00100	0.04567	0.32940	0.06480	0.65169	2.50740	0.30000	3.38808

Delay(ns) to Y rising (conditional):

Call Name	Timing Arc(Dir)	When					Delay(ns)				
Cell Name		wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.03619	0.32940	0.06480	0.54801	2.50740	0.30000	2.96479

Delay(ns) to Y falling (conditional):

Call Name	Timing Arc(Dir) When	When					Delay(ns)				
Cell Name		when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.04567	0.32940	0.06480	0.65169	2.50740	0.30000	3.38808

Internal switching power(pJ) to Y rising:

Cell Name	T4	Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
	A1	0.01860	0.00100	0.00414	0.32940	0.06480	0.00394	2.50740	0.30000	0.00410		
sg13g2_o21ai_1	A2	0.01860	0.00100	0.00242	0.32940	0.06480	0.00222	2.50740	0.30000	0.00255		
	B1	0.01860	0.00100	0.00151	0.32940	0.06480	0.00159	2.50740	0.30000	0.00152		

Internal switching power(pJ) to Y falling:

Cell Name	Input		Power(pJ)										
Cell Name		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A1	0.01860	0.00100	0.00390	0.32940	0.06480	0.00367	2.50740	0.30000	0.00361			
sg13g2_o21ai_1	A2	0.01860	0.00100	0.00365	0.32940	0.06480	0.00364	2.50740	0.30000	0.00353			
	B1	0.01860	0.00100	0.00208	0.32940	0.06480	0.00209	2.50740	0.30000	0.00218			

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

Cell Name	Immut	Input When		Power(pJ)									
Cen Name	Input		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	0.00151	0.32940	0.06480	0.00159	2.50740	0.30000	0.00152		

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

Cell Name	Innut	When	Power(pJ)									
Cen Name	Input W	Input When		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	0.00208	0.32940	0.06480	0.00209	2.50740	0.30000	0.00218	

OR2x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INP	UT	OUTPUT
A	В	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

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	A	В	X
sg13g2_or2_2	0.00230	0.00215	0.60000
sg13g2_or2_1	0.00231	0.00215	0.30000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_or2_2	458.47700	743.40600	1137.69000					
sg13g2_or2_1	323.45300	522.71900	660.01500					

Delay Information Delay(ns) to X rising:

Call Name	Timing		Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12-22 2	A->X (RR)	0.01860	0.00100	0.10162	0.32940	0.12960	0.54414	2.50740	0.60000	1.97244			
sg13g2_or2_2	B->X (RR)	0.01860	0.00100	0.09506	0.32940	0.12960	0.52936	2.50740	0.60000	1.92052			
12-22 1	A->X (RR)	0.01860	0.00100	0.08504	0.32940	0.06480	0.50007	2.50740	0.30000	1.84868			
sg13g2_or2_1	B->X (RR)	0.01860	0.00100	0.07832	0.32940	0.06480	0.48282	2.50740	0.30000	1.79202			

Delay(ns) to X falling:

Call Name	Timing	Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
12-22 2	A->X (FF)	0.01860	0.00100	0.18292	0.32940	0.12960	0.59049	2.50740	0.60000	1.83601		
sg13g2_or2_2	B->X (FF)	0.01860	0.00100	0.17434	0.32940	0.12960	0.59234	2.50740	0.60000	1.85422		
	A->X (FF)	0.01860	0.00100	0.14116	0.32940	0.06480	0.51579	2.50740	0.30000	1.68226		
sg13g2_or2_1	B->X (FF)	0.01860	0.00100	0.13206	0.32940	0.06480	0.51126	2.50740	0.30000	1.67891		

Internal switching power(pJ) to X rising:

Cell Name	T4	Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2 or2 2	A	0.01860	0.00100	0.00797	0.32940	0.12960	0.00842	2.50740	0.60000	0.00906		
sg13g2_or2_2	В	0.01860	0.00100	0.00777	0.32940	0.12960	0.00813	2.50740	0.60000	0.00826		
12-22 1	A	0.01860	0.00100	0.00497	0.32940	0.06480	0.00501	2.50740	0.30000	0.00626		
sg13g2_or2_1	В	0.01860	0.00100	0.00477	0.32940	0.06480	0.00475	2.50740	0.30000	0.00595		

Internal switching power(pJ) to \boldsymbol{X} falling:

Call Name	I4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12-22 2	A	0.01860	0.00100	0.00884	0.32940	0.12960	0.00931	2.50740	0.60000	0.00957			
sg13g2_or2_2	В	0.01860	0.00100	0.00778	0.32940	0.12960	0.00820	2.50740	0.60000	0.00869			
12-22 1	A	0.01860	0.00100	0.00592	0.32940	0.06480	0.00606	2.50740	0.30000	0.00693			
sg13g2_or2_1	В	0.01860	0.00100	0.00482	0.32940	0.06480	0.00497	2.50740	0.30000	0.00634			

OR3x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

IN	PU	J T	OUTPUT
A	В	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

Call Name		Pin Cap(pf)	Max Cap(pf)	
Cell Name	A	В	C	X
sg13g2_or3_2	0.00241	0.00235	0.00225	0.60000
sg13g2_or3_1	0.00241	0.00235	0.00225	0.30000

Call Nama	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_or3_2	462.34600	738.67100	1231.97000				
sg13g2_or3_1	327.22500	560.74800	862.22700				

Delay Information Delay(ns) to X rising:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_or3_2	A->X (RR)	0.01860	0.00100	0.11518	0.32940	0.12960	0.57150	2.50740	0.60000	2.05505	
	B->X (RR)	0.01860	0.00100	0.11023	0.32940	0.12960	0.55945	2.50740	0.60000	2.01477	
	C->X (RR)	0.01860	0.00100	0.10142	0.32940	0.12960	0.54262	2.50740	0.60000	1.95940	
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	0.09921	0.32940	0.06480	0.53159	2.50740	0.30000	1.94542	
	B->X (RR)	0.01860	0.00100	0.09465	0.32940	0.06480	0.51806	2.50740	0.30000	1.90333	
	C->X (RR)	0.01860	0.00100	0.08560	0.32940	0.06480	0.49858	2.50740	0.30000	1.83952	

Delay(ns) to X falling:

Call Name	Timing	Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_2	A->X (FF)	0.01860	0.00100	0.25573	0.32940	0.12960	0.67602	2.50740	0.60000	1.88899
	B->X (FF)	0.01860	0.00100	0.24933	0.32940	0.12960	0.67795	2.50740	0.60000	1.93880
	C->X (FF)	0.01860	0.00100	0.22793	0.32940	0.12960	0.66103	2.50740	0.60000	1.93173
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	0.20494	0.32940	0.06480	0.59031	2.50740	0.30000	1.74714
	B->X (FF)	0.01860	0.00100	0.19851	0.32940	0.06480	0.58978	2.50740	0.30000	1.77817
	C->X (FF)	0.01860	0.00100	0.17651	0.32940	0.06480	0.56826	2.50740	0.30000	1.75198

Internal switching power(pJ) to X rising:

Cell Name	T .	Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_or3_2	A	0.01860	0.00100	0.00822	0.32940	0.12960	0.00863	2.50740	0.60000	0.00940	
	В	0.01860	0.00100	0.00806	0.32940	0.12960	0.00838	2.50740	0.60000	0.00911	
	C	0.01860	0.00100	0.00780	0.32940	0.12960	0.00813	2.50740	0.60000	0.00820	
sg13g2_or3_1	A	0.01860	0.00100	0.00529	0.32940	0.06480	0.00531	2.50740	0.30000	0.00658	
	В	0.01860	0.00100	0.00512	0.32940	0.06480	0.00507	2.50740	0.30000	0.00635	
	C	0.01860	0.00100	0.00482	0.32940	0.06480	0.00475	2.50740	0.30000	0.00596	

Internal switching power(pJ) to X falling:

Cell Name	Input	Power(pJ)									
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_or3_2	A	0.01860	0.00100	0.01134	0.32940	0.12960	0.01174	2.50740	0.60000	0.01177	
	В	0.01860	0.00100	0.01016	0.32940	0.12960	0.01054	2.50740	0.60000	0.01091	
	C	0.01860	0.00100	0.00886	0.32940	0.12960	0.00912	2.50740	0.60000	0.00984	
sg13g2_or3_1	A	0.01860	0.00100	0.00833	0.32940	0.06480	0.00854	2.50740	0.30000	0.00897	
	В	0.01860	0.00100	0.00714	0.32940	0.06480	0.00733	2.50740	0.30000	0.00825	
	C	0.01860	0.00100	0.00583	0.32940	0.06480	0.00594	2.50740	0.30000	0.00727	

OR4x



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	INI	PUT	OUTPUT	
A	В	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

Call Name		Max Cap(pf)			
Cell Name	A	В	C	D	X
sg13g2_or4_2	0.00239	0.00232	0.00229	0.00223	0.60000
sg13g2_or4_1	0.00241	0.00232	0.00229	0.00223	0.30000

Leakage Information

Cell Name	Leakage(pW)						
	Min.	Avg	Max.				
sg13g2_or4_2	453.55100	704.31600	1323.92000				
sg13g2_or4_1	318.49400	547.84600	1023.41000				

Delay Information Delay(ns) to X rising:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->X (RR)	0.01860	0.00100	0.12070	0.32940	0.12960	0.58610	2.50740	0.60000	2.09539
12.24 2	B->X (RR)	0.01860	0.00100	0.11838	0.32940	0.12960	0.57678	2.50740	0.60000	2.06263
sg13g2_or4_2	C->X (RR)	0.01860	0.00100	0.11167	0.32940	0.12960	0.56332	2.50740	0.60000	2.01947
	D->X (RR)	0.01860	0.00100	0.10271	0.32940	0.12960	0.54538	2.50740	0.60000	1.96504
	A->X (RR)	0.01860	0.00100	0.10422	0.32940	0.06480	0.54812	2.50740	0.30000	1.99511
221222 244 1	B->X (RR)	0.01860	0.00100	0.10258	0.32940	0.06480	0.53808	2.50740	0.30000	1.95990
sg13g2_or4_1	C->X (RR)	0.01860	0.00100	0.09633	0.32940	0.06480	0.52287	2.50740	0.30000	1.90936
	D->X (RR)	0.01860	0.00100	0.08728	0.32940	0.06480	0.50331	2.50740	0.30000	1.84520

Delay(ns) to X falling:

CHN	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->X (FF)	0.01860	0.00100	0.35386	0.32940	0.12960	0.80420	2.50740	0.60000	2.01590
12-24 2	B->X (FF)	0.01860	0.00100	0.34765	0.32940	0.12960	0.80048	2.50740	0.60000	2.05813
sg13g2_or4_2	C->X (FF)	0.01860	0.00100	0.32613	0.32940	0.12960	0.78135	2.50740	0.60000	2.07862
	D->X (FF)	0.01860	0.00100	0.28954	0.32940	0.12960	0.74811	2.50740	0.60000	2.05582
	A->X (FF)	0.01860	0.00100	0.28664	0.32940	0.06480	0.69581	2.50740	0.30000	1.85979
12-24 1	B->X (FF)	0.01860	0.00100	0.28071	0.32940	0.06480	0.69147	2.50740	0.30000	1.88531
sg13g2_or4_1	C->X (FF)	0.01860	0.00100	0.25831	0.32940	0.06480	0.67084	2.50740	0.30000	1.89085
	D->X (FF)	0.01860	0.00100	0.22135	0.32940	0.06480	0.63444	2.50740	0.30000	1.85182

Power Information

Internal switching power(pJ) to X rising:

CHN	т 4	Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A	0.01860	0.00100	0.00876	0.32940	0.12960	0.00925	2.50740	0.60000	0.00935
12-24 2	В	0.01860	0.00100	0.00854	0.32940	0.12960	0.00902	2.50740	0.60000	0.00943
sg13g2_or4_2	С	0.01860	0.00100	0.00806	0.32940	0.12960	0.00851	2.50740	0.60000	0.00910
	D	0.01860	0.00100	0.00781	0.32940	0.12960	0.00805	2.50740	0.60000	0.00818
	A	0.01860	0.00100	0.00583	0.32940	0.06480	0.00583	2.50740	0.30000	0.00692
aa12a2 au4 1	В	0.01860	0.00100	0.00560	0.32940	0.06480	0.00558	2.50740	0.30000	0.00671
sg13g2_or4_1	С	0.01860	0.00100	0.00512	0.32940	0.06480	0.00510	2.50740	0.30000	0.00622
	D	0.01860	0.00100	0.00482	0.32940	0.06480	0.00483	2.50740	0.30000	0.00577

Internal switching power(pJ) to X falling:

Cell Name	Power(pJ)									
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A	0.01860	0.00100	0.01301	0.32940	0.12960	0.01313	2.50740	0.60000	0.01325
aa12a2 au4 2	В	0.01860	0.00100	0.01186	0.32940	0.12960	0.01206	2.50740	0.60000	0.01180
sg13g2_or4_2	C	0.01860	0.00100	0.01069	0.32940	0.12960	0.01085	2.50740	0.60000	0.01102
	D	0.01860	0.00100	0.00936	0.32940	0.12960	0.00950	2.50740	0.60000	0.01012
	A	0.01860	0.00100	0.00975	0.32940	0.06480	0.00995	2.50740	0.30000	0.01015
ag12g2 and 1	В	0.01860	0.00100	0.00863	0.32940	0.06480	0.00880	2.50740	0.30000	0.00911
sg13g2_or4_1	С	0.01860	0.00100	0.00741	0.32940	0.06480	0.00759	2.50740	0.30000	0.00823
	D	0.01860	0.00100	0.00608	0.32940	0.06480	0.00620	2.50740	0.30000	0.00743

SDFRBPQx



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

		OUTPUT			
D	SCD	SCE	RESET_B	Q	
0	0	x	1	R	0
0	1	0	1	R	0
x	1	1	1	R	1
1	x	0	1	R	1
1	0	1	1	R	0
X	x	x	0	x	0
х	X	X	1	X	IQ

Footprint

Cell Name	Area
sg13g2_sdfrbpq_2	72.57600
sg13g2_sdfrbpq_1	63.50400

Pin Capacitance Information

Call Name		Max Cap(pf)				
Cell Name	D	SCD	SCE	RESET_B	CLK	Q
sg13g2_sdfrbpq_2	0.00259	0.00271	0.00439	0.00484	0.00275	0.60000
sg13g2_sdfrbpq_1	0.00259	0.00271	0.00439	0.00483	0.00275	0.30000

Leakage Information

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_sdfrbpq_2	3100.18000	3640.43000	4734.94000			
sg13g2_sdfrbpq_1	2778.65000	3303.87000	4257.28000			

Delay Information Delay(ns) to Q rising:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_2	CLK->Q (RR)	0.01860	0.00100	0.31186	0.32940	0.12960	0.76917	2.50740	0.60000	2.10366
sg13g2_sdfrbpq_1	CLK->Q (RR)	0.01860	0.00100	0.27176	0.32940	0.06480	0.70325	2.50740	0.30000	2.03529

Delay(ns) to Q falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	CLK->Q (RF)	0.01860	0.00100	0.32218	0.32940	0.12960	0.74193	2.50740	0.60000	1.91654
sg13g2_sdfrbpq_2	RESET_B->Q (FF)	0.01860	0.00100	0.18538	0.32940	0.12960	0.65337	2.50740	0.60000	2.11629
	CLK->Q (RF)	0.01860	0.00100	0.28312	0.32940	0.06480	0.67711	2.50740	0.30000	1.85051
10.0 10.1	RESET_B->Q (FF)	0.01860	0.00100	0.14753	0.32940	0.06480	0.58286	2.50740	0.30000	1.95552

Delay(ns) to Q rising (conditional):

Call Name	Timing	D:" when [Delay(ns)				
Cell Name	Arc(Dir)	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
anii 2nii adenbuna 2	CLK->Q (RR)	SCE	0.01860	0.00100	0.31167	0.32940	0.12960	0.76917	2.50740	0.60000	2.10366
sg13g2_sdfrbpq_2	CLK->Q (RR)	!SCE	0.01860	0.00100	0.31186	0.32940	0.12960	0.76917	2.50740	0.60000	2.10366
12.216.1	CLK->Q (RR)	SCE	0.01860	0.00100	0.27178	0.32940	0.06480	0.70325	2.50740	0.30000	2.03529
sg13g2_sdfrbpq_1	CLK->Q (RR)	!SCE	0.01860	0.00100	0.27176	0.32940	0.06480	0.70325	2.50740	0.30000	2.03529

Delay(ns) to Q falling (conditional):

Cell Name	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
callal adfuhna l	CLK->Q (RF)	(RF) SCE	0.01860	0.00100	0.32235	0.32940	0.12960	0.74206	2.50740	0.60000	1.91423
sg13g2_sdfrbpq_2	CLK->Q (RF)	!SCE	0.01860	0.00100	0.32218	0.32940	0.12960	0.74193	2.50740	0.60000	1.91654
12.216.1	CLK-SO	SCE	0.01860	0.00100	0.28310	0.32940	0.06480	0.67711	2.50740	0.30000	1.85052
sg13g2_sdfrbpq_1	CLK->Q (RF)	!SCE	0.01860	0.00100	0.28312	0.32940	0.06480	0.67711	2.50740	0.30000	1.85051

Constraint Information

Constraints(ns) for D rising:

	T::	D-f				C	onstraint(1	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.23963	1.26300	1.26300	-0.39936	2.50740	2.50740	-0.46930
	setup	CLK (R)	0.01860	0.01860	0.31788	1.26300	1.26300	0.46952	2.50740	2.50740	0.55194
12.2	hold	CLK (R)	0.01860	0.01860	-0.23963	1.26300	1.26300	-0.39936	2.50740	2.50740	-0.47225
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.31788	1.26300	1.26300	0.46952	2.50740	2.50740	0.55194

Constraints(ns) for D falling:

	T::	D-f				Co	onstraint(r	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.23229	1.26300	1.26300	-0.27523	2.50740	2.50740	-0.29811
	setup	CLK (R)	0.01860	0.01860	0.33988	1.26300	1.26300	0.36428	2.50740	2.50740	0.38960
sg13g2_sdfrbpq_1	hold	CLK (R)	0.01860	0.01860	-0.23229	1.26300	1.26300	-0.27523	2.50740	2.50740	-0.29811
	setup	CLK (R)	0.01860	0.01860	0.34233	1.26300	1.26300	0.36428	2.50740	2.50740	0.38960

Constraints(ns) for SCD rising:

	m:	Ref				Co	onstraint(r	ns)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.23963	1.26300	1.26300	-0.39936	2.50740	2.50740	-0.47225
	setup	CLK (R)	0.01860	0.01860	0.31543	1.26300	1.26300	0.46952	2.50740	2.50740	0.55194
sg13g2_sdfrbpq_1	hold	CLK (R)	0.01860	0.01860	-0.23963	1.26300	1.26300	-0.39936	2.50740	2.50740	-0.47225
	setup	CLK (R)	0.01860	0.01860	0.31788	1.26300	1.26300	0.47221	2.50740	2.50740	0.55194

Constraints(ns) for SCD falling:

	m:t	Ref				Co	onstraint(r	ns)			
Cell Name	Timing Check	heck Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.22985	1.26300	1.26300	-0.26984	2.50740	2.50740	-0.29220
	setup	CLK (R)	0.01860	0.01860	0.33988	1.26300	1.26300	0.36428	2.50740	2.50740	0.38960
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.22985	1.26300	1.26300	-0.26984	2.50740	2.50740	-0.29220
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.34233	1.26300	1.26300	0.36428	2.50740	2.50740	0.38960

Constraints(ns) for SCE rising:

	T::	Ref				Co	onstraint(r	ns)			
Cell Name	Timing Check	'	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.24452	1.26300	1.26300	-0.41015	2.50740	2.50740	-0.49291
	setup	CLK (R)	0.01860	0.01860	0.32277	1.26300	1.26300	0.48301	2.50740	2.50740	0.57850
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.24452	1.26300	1.26300	-0.41285	2.50740	2.50740	-0.49586
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.32277	1.26300	1.26300	0.48301	2.50740	2.50740	0.57850

Constraints(ns) for SCE falling:

	T::	D-£				Co	onstraint(r	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
ag12g2 adfubna 2	hold	CLK (R)	0.01860	0.01860	-0.23963	1.26300	1.26300	-0.26984	2.50740	2.50740	-0.28335
sg13g2_sdfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.34966	1.26300	1.26300	0.36428	2.50740	2.50740	0.38370
12-2 -Jf-h 1	hold	CLK (R)	0.01860	0.01860	-0.23963	1.26300	1.26300	-0.26984	2.50740	2.50740	-0.28335
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.35211	1.26300	1.26300	0.36428	2.50740	2.50740	0.38370

Constraints(ns) for RESET_B rising:

	T::	Ref				Co	onstraint(r	ıs)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	recovery	CLK (R)	0.01860	0.01860	0.19806	1.26300	1.26300	0.45602	2.50740	2.50740	1.05075
	removal	CLK (R)	0.01860	0.01860	-0.16627	1.26300	1.26300	-0.37237	2.50740	2.50740	-0.50767
12 2 16 1 1	recovery	CLK (R)	0.01860	0.01860	0.20051	1.26300	1.26300	0.43983	2.50740	2.50740	0.81167
sg13g2_sdfrbpq_1 r	removal	CLK (R)	0.01860	0.01860	-0.16627	1.26300	1.26300	-0.37237	2.50740	2.50740	-0.50767

Constraints(ns) for RESET_B falling:

		Dof				Co	nstraint(n	ıs)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	min_pulse_width	RESET_B	0.01860	0.00000	0.19836	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818
sg13g2_sdfrbpq_1	min_pulse_width	RESET_B	0.01860	0.00000	0.17593	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for CLK rising:

Cell Name T	Timing Check	Ref Pin(trans)		Constraint(ns)									
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_sdfrbpq_2	min_pulse_width	CLK ()	0.01860	0.00000	0.14710	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_sdfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.12146	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Constraints(ns) for CLK falling:

Cell Name	Timing Check	Ref Pin(trans)		Constraint(ns)									
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_sdfrbpq_2	min_pulse_width	CLK ()	0.01860	0.00000	0.20798	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_sdfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.20798	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Power Information

Internal switching power(pJ) to Q rising:

C.II Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	0.01963	0.32940	0.12960	0.01964	2.50740	0.60000	0.02220			
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	0.01651	0.32940	0.06480	0.01641	2.50740	0.30000	0.01913			

Internal switching power(pJ) to Q falling:

Cell Name	T4		Power(pJ)										
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12.2 16.1 2	CLK	0.01860	0.00100	0.02030	0.32940	0.12960	0.02082	2.50740	0.60000	0.02430			
sg13g2_sdfrbpq_2	RESET_B	0.01860	0.00100	0.01896	0.32940	0.12960	0.01891	2.50740	0.60000	0.02002			
12-2 -de-h 1	CLK	0.01860	0.00100	0.01743	0.32940	0.06480	0.01761	2.50740	0.30000	0.02104			
sg13g2_sdfrbpq_1	RESET_B	0.01860	0.00100	0.01615	0.32940	0.06480	0.01579	2.50740	0.30000	0.01733			

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

Cell Name	In must	When	Power(pJ)									
Cen Name	Input	WHEH	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
12-216-h 2	CLK	SCE	0.01860	0.00100	0.01963	0.32940	0.12960	0.01964	2.50740	0.60000	0.02220	
sg13g2_sdfrbpq_2	CLK	!SCE	0.01860	0.00100	0.01085	0.32940	0.12960	0.01126	2.50740	0.60000	0.01077	
12-216-1 1	CLK	SCE	0.01860	0.00100	0.01651	0.32940	0.06480	0.01641	2.50740	0.30000	0.01913	
sg13g2_sdfrbpq_1	CLK	!SCE	0.01860	0.00100	0.00770	0.32940	0.06480	0.00803	2.50740	0.30000	0.00774	

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

Cell Name	T4	Input When	Power(pJ)									
	ութաւ		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
12 2 16 1 2	CLK	SCE	0.01860	0.00100	0.02030	0.32940	0.12960	0.02082	2.50740	0.60000	0.02430	
sg13g2_sdfrbpq_2	CLK	!SCE	0.01860	0.00100	0.01209	0.32940	0.12960	0.01302	2.50740	0.60000	0.01339	
12-216-1 1	CLK	SCE	0.01860	0.00100	0.01743	0.32940	0.06480	0.01761	2.50740	0.30000	0.02104	
sg13g2_sdfrbpq_1	CLK	!SCE	0.01860	0.00100	0.00862	0.32940	0.06480	0.00923	2.50740	0.30000	0.00960	

Passive power(pJ) for D rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_sdfrbpq_2	0.01860	0.02818	0.32940	0.02778	2.50740	0.03031				
sg13g2_sdfrbpq_1	0.01860	0.02478	0.32940	0.02437	2.50740	0.02690				

Passive power(pJ) for D falling:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_sdfrbpq_2	0.01860	0.01768	0.32940	0.01737	2.50740	0.02012					
sg13g2_sdfrbpq_1	0.01860	0.01525	0.32940	0.01494	2.50740	0.01768					

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

Cell Name	When	Power(pJ)								
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbpq_2	(!CLK * RESET_B * !SCE)	0.01860	0.02818	0.32940	0.02778	2.50740	0.03031			
sg13g2_sdfrbpq_1	(!CLK * RESET_B * !SCE)	0.01860	0.02478	0.32940	0.02437	2.50740	0.02690			

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

Cell Name	When	Power(pJ)								
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbpq_2	(!CLK * RESET_B * !SCE)	0.01860	0.01768	0.32940	0.01737	2.50740	0.02012			
sg13g2_sdfrbpq_1	(!CLK * RESET_B * !SCE)	0.01860	0.01525	0.32940	0.01494	2.50740	0.01768			

Passive power(pJ) for SCD rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_sdfrbpq_2	0.01860	0.02830	0.32940	0.02790	2.50740	0.03043					
sg13g2_sdfrbpq_1	0.01860	0.02490	0.32940	0.02450	2.50740	0.02701					

Passive power(pJ) for SCD falling:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_sdfrbpq_2	0.01860	0.01744	0.32940	0.01712	2.50740	0.01987					
sg13g2_sdfrbpq_1	0.01860	0.01401	0.32940	0.01370	2.50740	0.01644					

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

Call Name	W/la ova	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_sdfrbpq_2	(!CLK * RESET_B * SCE)	0.01860	0.02830	0.32940	0.02790	2.50740	0.03043	
sg13g2_sdfrbpq_1	(!CLK * RESET_B * SCE)	0.01860	0.02490	0.32940	0.02450	2.50740	0.02701	

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

Call Name	XX/la ova	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_sdfrbpq_2	(!CLK * RESET_B * SCE)	0.01860	0.01744	0.32940	0.01712	2.50740	0.01987	
sg13g2_sdfrbpq_1	(!CLK * RESET_B * SCE)	0.01860	0.01401	0.32940	0.01370	2.50740	0.01644	

Passive power(pJ) for SCE rising:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfrbpq_2	0.01860	0.02054	0.32940	0.02021	2.50740	0.02425		
sg13g2_sdfrbpq_1	0.01860	0.02054	0.32940	0.02023	2.50740	0.02427		

Passive power(pJ) for SCE falling:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfrbpq_2	0.01860	0.01211	0.32940	0.03151	2.50740	0.03557		
sg13g2_sdfrbpq_1	0.01860	0.01067	0.32940	0.03011	2.50740	0.03420		

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

Call Name	VVII- ove			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
12 2 16 1 2	(!CLK * D * RESET_B * !SCD)	0.01860	0.01948	0.32940	0.01916	2.50740	0.02122
sg13g2_sdfrbpq_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.02054	0.32940	0.02021	2.50740	0.02425
	(!CLK * D * RESET_B * !SCD)	0.01860	0.01806	0.32940	0.01775	2.50740	0.01981
sg13g2_sdfrbpq_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.02054	0.32940	0.02023	2.50740	0.02427

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

Call Name	W/la oza	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
12 2 16 1 2	(!CLK * D * RESET_B * !SCD)	0.01860	0.02082	0.32940	0.02063	2.50740	0.02253	
sg13g2_sdfrbpq_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.01211	0.32940	0.03151	2.50740	0.03557	
	(!CLK * D * RESET_B * !SCD)	0.01860	0.02083	0.32940	0.02064	2.50740	0.02254	
sg13g2_sdfrbpq_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.01067	0.32940	0.03011	2.50740	0.03420	

Passive power(pJ) for CLK rising :

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfrbpq_2	0.01860	0.00880	0.32940	0.00838	2.50740	0.01143		
sg13g2_sdfrbpq_1	0.01860	0.00880	0.32940	0.00838	2.50740	0.01143		

Passive power(pJ) for CLK falling:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfrbpq_2	0.01860	0.00884	0.32940	0.00853	2.50740	0.01146		
sg13g2_sdfrbpq_1	0.01860	0.00884	0.32940	0.00853	2.50740	0.01146		

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

Call Name	XX 71			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * Q)	0.01860	0.00890	0.32940	0.00850	2.50740	0.01156
	(RESET_B * !SCD * SCE * !Q)	0.01860	0.00880	0.32940	0.00838	2.50740	0.01143
sg13g2_sdfrbpq_2	(D * RESET_B * !SCE * Q)	0.01860	0.00889	0.32940	0.00850	2.50740	0.01156
	(!RESET_B * !Q)	0.01860	0.00406	0.32940	0.00366	2.50740	0.00671
	(!D * RESET_B * !SCE * !Q)	0.01860	0.00883	0.32940	0.00841	2.50740	0.01147
	(RESET_B * SCD * SCE * Q)	0.01860	0.00889	0.32940	0.00850	2.50740	0.01156
	(RESET_B * !SCD * SCE * !Q)	0.01860	0.00880	0.32940	0.00838	2.50740	0.01143
sg13g2_sdfrbpq_1	(D * RESET_B * !SCE * Q)	0.01860	0.00889	0.32940	0.00850	2.50740	0.01156
	(!RESET_B * !Q)	0.01860	0.00265	0.32940	0.00226	2.50740	0.00530
	(!D * RESET_B * !SCE * !Q)	0.01860	0.00884	0.32940	0.00841	2.50740	0.01147

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

G HAY	***			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * Q)	0.01860	0.00884	0.32940	0.00853	2.50740	0.01146
	(RESET_B * SCD * SCE * !Q)	0.01860	0.01668	0.32940	0.01627	2.50740	0.01915
	(RESET_B * !SCD * SCE * Q)	0.01860	0.01553	0.32940	0.01531	2.50740	0.01849
sg13g2_sdfrbpq_2	(RESET_B * !SCD * SCE * !Q)	0.01860	0.00845	0.32940	0.00814	2.50740	0.01107
	(D * RESET_B * !SCE * Q)	0.01860	0.00884	0.32940	0.00853	2.50740	0.01146
	(!RESET_B * !Q)	0.01860	0.00459	0.32940	0.00429	2.50740	0.00719
	(!D * RESET_B * !SCE * !Q)	0.01860	0.00856	0.32940	0.00826	2.50740	0.01118
	(RESET_B * SCD * SCE * Q)	0.01860	0.00884	0.32940	0.00853	2.50740	0.01146
	(RESET_B * SCD * SCE * !Q)	0.01860	0.01669	0.32940	0.01627	2.50740	0.01915
	(RESET_B * !SCD * SCE * Q)	0.01860	0.01553	0.32940	0.01531	2.50740	0.01849
sg13g2_sdfrbpq_1	(RESET_B * !SCD * SCE * !Q)	0.01860	0.00845	0.32940	0.00815	2.50740	0.01107
	(D * RESET_B * !SCE * Q)	0.01860	0.00884	0.32940	0.00853	2.50740	0.01146
	(!RESET_B * !Q)	0.01860	0.00318	0.32940	0.00288	2.50740	0.00578
	(!D * RESET_B * !SCE * !Q)	0.01860	0.00856	0.32940	0.00826	2.50740	0.01118

SDFRBPx



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfrbp_2	72.57600
sg13g2_sdfrbp_1	68.94720

Pin Capacitance Information

Call Name			Pin Cap(of)		Max Cap(pf)			
Cell Name	D	SCD	SCE	RESET_B	CLK	Q	Q_N		
sg13g2_sdfrbp_2	0.00259	0.00271	0.00439	0.00516	0.00275	0.60000	0.60000		
sg13g2_sdfrbp_1	0.00259	0.00271	0.00439	0.00520	0.00275	0.30000	0.30000		

Leakage Information

Call Name		Leakage(pW)	
Cell Name	Min.	Avg	Max.
sg13g2_sdfrbp_2	3638.24000	4389.98000	5117.04000
sg13g2_sdfrbp_1	3025.75000	3777.30000	4504.36000

Delay Information Delay(ns) to Q rising:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK->Q (RR)	0.01860	0.00100	0.37534	0.32940	0.12960	0.77002	2.50740	0.60000	2.13606
sg13g2_sdfrbp_1	CLK->Q (RR)	0.01860	0.00100	0.29416	0.32940	0.06480	0.69836	2.50740	0.30000	2.06472

Delay(ns) to Q falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	CLK->Q (RF)	0.01860	0.00100	0.32723	0.32940	0.12960	0.69535	2.50740	0.60000	1.87710
sg13g2_sdfrbp_2	RESET_B->Q (FF)	0.01860	0.00100	0.43900	0.32940	0.12960	0.84085	2.50740	0.60000	2.24534
	CLK->Q (RF)	0.01860	0.00100	0.26970	0.32940	0.06480	0.63832	2.50740	0.30000	1.81459
sg13g2_sdfrbp_1	RESET_B->Q (FF)	0.01860	0.00100	0.37988	0.32940	0.06480	0.78204	2.50740	0.30000	2.18145

Delay(ns) to Q rising (conditional):

Call Name	Timing	33/1					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK->Q (RR)	SCE	0.01860	0.00100	0.37534	0.32940	0.12960	0.77002	2.50740	0.60000	2.13606
sg13g2_sdfrbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	0.29416	0.32940	0.06480	0.69836	2.50740	0.30000	2.06472

Delay(ns) to Q falling (conditional):

Cell Name Timing	Timing	Whom					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK->Q (RF)	SCE	0.01860	0.00100	0.32723	0.32940	0.12960	0.69535	2.50740	0.60000	1.87710
sg13g2_sdfrbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	0.26970	0.32940	0.06480	0.63832	2.50740	0.30000	1.81459

Delay(ns) to Q_N rising:

Cell Name	Timing Ang(Din)					Delay(ns)				
Cen Name	Timing Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
221222 adfulu 2	CLK->Q_N (RR)	0.01860	0.00100	0.21744	0.32940	0.12960	0.67756	2.50740	0.60000	2.01018
sg13g2_sdfrbp_2	RESET_B->Q_N (FR)	0.01860	0.00100	0.33175	0.32940	0.12960	0.81981	2.50740	0.60000	2.36828
221222 adfulu 1	CLK->Q_N (RR)	0.01860	0.00100	0.20697	0.32940	0.06480	0.64936	2.50740	0.30000	1.97889
sg13g2_sdfrbp_1	RESET_B->Q_N (FR)	0.01860	0.00100	0.31814	0.32940	0.06480	0.78903	2.50740	0.30000	2.33454

Delay(ns) to Q_N falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK->Q_N (RF)	0.01860	0.00100	0.24239	0.32940	0.12960	0.70722	2.50740	0.60000	1.92514
sg13g2_sdfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	0.21895	0.32940	0.06480	0.65664	2.50740	0.30000	1.87204

Delay(ns) to Q_N rising (conditional):

Call Name	Timing	XX/In and					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK->Q_N (RR)	SCE	0.01860	0.00100	0.21744	0.32940	0.12960	0.67756	2.50740	0.60000	2.01018
sg13g2_sdfrbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	0.20697	0.32940	0.06480	0.64936	2.50740	0.30000	1.97889

$\label{eq:Delay} \textbf{Delay(ns) to Q_N falling (conditional):}$

I Cell Name I	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK->Q_N (RF)	SCE	0.01860	0.00100	0.24239	0.32940	0.12960	0.70722	2.50740	0.60000	1.92514
sg13g2_sdfrbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	0.21895	0.32940	0.06480	0.65664	2.50740	0.30000	1.87204

Constraint Information

Constraints(ns) for D rising:

	TD:	D.C				Co	onstraint(1	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12-2 -de-b 2	hold	CLK (R)	0.01860	0.01860	-0.22496	1.26300	1.26300	-0.38317	2.50740	2.50740	-0.45454
sg13g2_sdfrbp_2	setup	CLK (R)	0.01860	0.01860	0.32032	1.26300	1.26300	0.46682	2.50740	2.50740	0.53423
12.216.1 1	hold	CLK (R)	0.01860	0.01860	-0.22740	1.26300	1.26300	-0.38856	2.50740	2.50740	-0.46044
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.32032	1.26300	1.26300	0.46682	2.50740	2.50740	0.53423

Constraints(ns) for D falling:

	T::	Def				Co	onstraint(r	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12.216.12	hold	CLK (R)	0.01860	0.01860	-0.21518	1.26300	1.26300	-0.26714	2.50740	2.50740	-0.30106
sg13g2_sdfrbp_2	setup	CLK (R)	0.01860	0.01860	0.35211	1.26300	1.26300	0.37237	2.50740	2.50740	0.39551
12.216.11	hold	CLK (R)	0.01860	0.01860	-0.21762	1.26300	1.26300	-0.26984	2.50740	2.50740	-0.30106
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.35211	1.26300	1.26300	0.36968	2.50740	2.50740	0.39551

Constraints(ns) for SCD rising:

	T:	D.f	Constraint(ns)										
Cell Name (Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_sdfrbp_2	hold	CLK (R)	0.01860	0.01860	-0.22496	1.26300	1.26300	-0.38317	2.50740	2.50740	-0.45454		
	setup	CLK (R)	0.01860	0.01860	0.32032	1.26300	1.26300	0.46952	2.50740	2.50740	0.53718		
sg13g2_sdfrbp_1	hold	CLK (R)	0.01860	0.01860	-0.22740	1.26300	1.26300	-0.39126	2.50740	2.50740	-0.46044		
	setup	CLK (R)	0.01860	0.01860	0.32032	1.26300	1.26300	0.46682	2.50740	2.50740	0.53718		

Constraints(ns) for SCD falling:

	T::	Def				Co	onstraint(n	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_2	hold	CLK (R)	0.01860	0.01860	-0.21518	1.26300	1.26300	-0.26444	2.50740	2.50740	-0.29515
sg13g2_sd1rbp_2	setup	CLK (R)	0.01860	0.01860	0.35211	1.26300	1.26300	0.37237	2.50740	2.50740	0.39846
callad adfrhn 1	hold	CLK (R)	0.01860	0.01860	-0.21518	1.26300	1.26300	-0.26444	2.50740	2.50740	-0.29515
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.35211	1.26300	1.26300	0.36968	2.50740	2.50740	0.39551

Constraints(ns) for SCE rising:

	m:	Ref			Constraint(ns)						
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_2	hold	CLK (R)	0.01860	0.01860	-0.22985	1.26300	1.26300	-0.39666	2.50740	2.50740	-0.47815
sg15g2_sd1rbp_2	setup	CLK (R)	0.01860	0.01860	0.32521	1.26300	1.26300	0.48031	2.50740	2.50740	0.56079
12.216.1 1	hold	CLK (R)	0.01860	0.01860	-0.23229	1.26300	1.26300	-0.40206	2.50740	2.50740	-0.48405
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.32521	1.26300	1.26300	0.47761	2.50740	2.50740	0.56079

$Constraints (ns) \ for \ SCE \ falling:$

	T::	Ref	Constraint(ns)										
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_sdfrbp_2	hold	CLK (R)	0.01860	0.01860	-0.22496	1.26300	1.26300	-0.26174	2.50740	2.50740	-0.28630		
	setup	CLK (R)	0.01860	0.01860	0.36189	1.26300	1.26300	0.36968	2.50740	2.50740	0.39255		
12.216.11	hold	CLK (R)	0.01860	0.01860	-0.22496	1.26300	1.26300	-0.26444	2.50740	2.50740	-0.28630		
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.36189	1.26300	1.26300	0.36968	2.50740	2.50740	0.38960		

Constraints(ns) for RESET_B rising:

	Timing	Ref	Constraint(ns)										
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_sdfrbp_2	recovery	CLK (R)	0.01860	0.01860	0.20295	1.26300	1.26300	0.41285	2.50740	2.50740	0.55784		
	removal	CLK (R)	0.01860	0.01860	-0.17605	1.26300	1.26300	-0.38047	2.50740	2.50740	-0.51947		
12.2 161. 1	recovery	CLK (R)	0.01860	0.01860	0.20295	1.26300	1.26300	0.41285	2.50740	2.50740	0.55784		
sg13g2_sdfrbp_1	removal	CLK (R)	0.01860	0.01860	-0.17361	1.26300	1.26300	-0.37777	2.50740	2.50740	-0.51357		

Constraints(ns) for RESET_B falling:

		D-£				Co	onstraint(n	s)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_2	min_pulse_width	RESET_B	0.01860	0.00000	0.17273	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818
sg13g2_sdfrbp_1	min_pulse_width	RESET_B	0.01860	0.00000	0.16953	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for CLK rising:

G H N		D-f				Co	nstraint(n	s)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_2	min_pulse_width	CLK ()	0.01860	0.00000	0.21439	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818
sg13g2_sdfrbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.17273	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Power Information

Internal switching power(pJ) to Q rising:

Cell Name	T4]	Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	0.02920	0.32940	0.12960	0.10514	2.50740	0.60000	0.38157
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	0.02335	0.32940	0.06480	0.06075	2.50740	0.30000	0.20059

Internal switching power(pJ) to Q falling:

Call Name	T4	Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
ag12g2 adfubu 2	CLK	0.01860	0.00100	0.02976	0.32940	0.12960	0.10589	2.50740	0.60000	0.38332		
sg13g2_sdfrbp_2	RESET_B	0.01860	0.00100	0.03708	0.32940	0.12960	0.09643	2.50740	0.60000	0.31223		
sal3a2 sdfrhn 1	CLK	0.01860	0.00100	0.02424	0.32940	0.06480	0.06175	2.50740	0.30000	0.20217		
sg13g2_sdfrbp_1 R	RESET_B	0.01860	0.00100	0.02471	0.32940	0.06480	0.05392	2.50740	0.30000	0.16260		

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

Cell Name	I4]	Power(pJ)				
Cen Name	Input			Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	0.02920	0.32940	0.12960	0.10514	2.50740	0.60000	0.38157
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.02335	0.32940	0.06480	0.06075	2.50740	0.30000	0.20059

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

Call Name	T4	XX71					Power(pJ)				
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	0.02976	0.32940	0.12960	0.10589	2.50740	0.60000	0.38332
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.02424	0.32940	0.06480	0.06175	2.50740	0.30000	0.20217

Internal switching power(pJ) to Q_N rising:

CHN	T 4]	Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	0.03070	0.32940	0.12960	0.10694	2.50740	0.60000	0.38403
	RESET_B	0.01860	0.00100	0.03006	0.32940	0.12960	0.08945	2.50740	0.60000	0.30690
	CLK	0.01860	0.00100	0.02423	0.32940	0.06480	0.06196	2.50740	0.30000	0.20201
	RESET_B	0.01860	0.00100	0.02472	0.32940	0.06480	0.05384	2.50740	0.30000	0.16330

Internal switching power(pJ) to Q_N falling:

Call Name	T4		Power(pJ)							
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	0.02918	0.32940	0.12960	0.10512	2.50740	0.60000	0.38178
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	0.02333	0.32940	0.06480	0.06068	2.50740	0.30000	0.20059

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

Call Name	T	Whom		Power(pJ)							
Cell Name	Input	When		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	0.03070	0.32940	0.12960	0.10694	2.50740	0.60000	0.38403
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.02423	0.32940	0.06480	0.06196	2.50740	0.30000	0.20201

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

Call Name	T4	XX/1		Power(pJ)							
Cell Name	Input	When		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	0.02918	0.32940	0.12960	0.10512	2.50740	0.60000	0.38178
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.02333	0.32940	0.06480	0.06068	2.50740	0.30000	0.20059

Passive power(pJ) for D rising:

Cell Name	Power(pJ)								
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	0.01860	0.01818	0.32940	0.01778	2.50740	0.02030			
sg13g2_sdfrbp_1	0.01860	0.01695	0.32940	0.01655	2.50740	0.01907			

Passive power(pJ) for D falling:

Cell Name	Power(pJ)								
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	0.01860	0.02283	0.32940	0.02251	2.50740	0.02525			
sg13g2_sdfrbp_1	0.01860	0.02282	0.32940	0.02250	2.50740	0.02525			

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

Call Name	When	Power(pJ)							
Cell Name	vv nen	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfrbp_2	(!CLK * RESET_B * !SCE)	0.01860	0.01818	0.32940	0.01778	2.50740	0.02030		
sg13g2_sdfrbp_1	(!CLK * RESET_B * !SCE)	0.01860	0.01695	0.32940	0.01655	2.50740	0.01907		

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

Cell Name	When	Power(pJ)								
Cen Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	(!CLK * RESET_B * !SCE)	0.01860	0.02283	0.32940	0.02251	2.50740	0.02525			
sg13g2_sdfrbp_1	(!CLK * RESET_B * !SCE)	0.01860	0.02282	0.32940	0.02250	2.50740	0.02525			

Passive power(pJ) for SCD rising:

Cell Name	Power(pJ)								
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	0.01860	0.01831	0.32940	0.01790	2.50740	0.02042			
sg13g2_sdfrbp_1	0.01860	0.01709	0.32940	0.01667	2.50740	0.01919			

Passive power(pJ) for SCD falling:

Cell Name	Power(pJ)								
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	0.01860	0.01499	0.32940	0.01469	2.50740	0.01743			
sg13g2_sdfrbp_1	0.01860	0.00742	0.32940	0.00712	2.50740	0.00986			

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

Call Name	When	Power(pJ)								
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	(!CLK * RESET_B * SCE)	0.01860	0.01831	0.32940	0.01790	2.50740	0.02042			
sg13g2_sdfrbp_1	(!CLK * RESET_B * SCE)	0.01860	0.01709	0.32940	0.01667	2.50740	0.01919			

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

Cell Name	When	Power(pJ)								
Cen Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	(!CLK * RESET_B * SCE)	0.01860	0.01499	0.32940	0.01469	2.50740	0.01743			
sg13g2_sdfrbp_1	(!CLK * RESET_B * SCE)	0.01860	0.00742	0.32940	0.00712	2.50740	0.00986			

Passive power(pJ) for SCE rising:

Cell Name	Power(pJ)								
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	0.01860	0.02053	0.32940	0.02021	2.50740	0.02425			
sg13g2_sdfrbp_1	0.01860	0.02055	0.32940	0.02022	2.50740	0.02427			

Passive power(pJ) for SCE falling:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfrbp_2	0.01860	0.00843	0.32940	0.02782	2.50740	0.03189		
sg13g2_sdfrbp_1	0.01860	0.00843	0.32940	0.02784	2.50740	0.03193		

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

Call Name	Whom	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
221222 24fabra 2	(!CLK * D * RESET_B * !SCD) (!CLK * !D * RESET_B * SCD)	0.01860	0.01580	0.32940	0.01549	2.50740	0.01755	
sg13g2_sdfrbp_2		0.01860	0.02053	0.32940	0.02021	2.50740	0.02425	
aa12a2 adfuhn 1	(!CLK * D * RESET_B * !SCD)	0.01860	0.01580	0.32940	0.01549	2.50740	0.01755	
sg13g2_sdfrbp_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.02055	0.32940	0.02022	2.50740	0.02427	

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

Call Name	W/h ore	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
12-2 -J6-h 2	(!CLK * D * RESET_B * !SCD)		0.02082	0.32940	0.02063	2.50740	0.02252	
sg13g2_sdfrbp_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.00843	0.32940	0.02782	2.50740	0.03189	
an 12n2 adfubra 1	(!CLK * D * RESET_B * !SCD) (!CLK * !D * RESET_B * SCD)	0.01860	0.02084	0.32940	0.02064	2.50740	0.02254	
sg13g2_sdfrbp_1		0.01860	0.00843	0.32940	0.02784	2.50740	0.03193	

Passive power(pJ) for CLK rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_sdfrbp_2	0.01860	0.00882	0.32940	0.00839	2.50740	0.01148	
sg13g2_sdfrbp_1	0.01860	0.00881	0.32940	0.00838	2.50740	0.01147	

Passive power(pJ) for CLK falling:

Call Name			Powe	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_2	0.01860	0.00863	0.32940	0.00829	2.50740	0.01120
sg13g2_sdfrbp_1	0.01860	0.00863	0.32940	0.00829	2.50740	0.01120

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

CHN	***			Powe	er(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	0.00894	0.32940	0.00851	2.50740	0.01156
sg13g2_sdfrbp_2	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.00882	0.32940	0.00839	2.50740	0.01148
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.00892	0.32940	0.00851	2.50740	0.01156
	(!RESET_B * !Q * Q_N)	0.01860	0.00041	0.32940	-0.00000	2.50740	0.00305
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.00883	0.32940	0.00843	2.50740	0.01151
	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	0.00893	0.32940	0.00850	2.50740	0.01156
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.00881	0.32940	0.00838	2.50740	0.01147
sg13g2_sdfrbp_1	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.00892	0.32940	0.00850	2.50740	0.01156
	(!RESET_B * !Q * Q_N)	0.01860	0.00041	0.32940	-0.00000	2.50740	0.00305
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.00885	0.32940	0.00841	2.50740	0.01151

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

CHN	***			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	0.00863	0.32940	0.00829	2.50740	0.01120
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	0.01671	0.32940	0.01628	2.50740	0.01915
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	0.01541	0.32940	0.01517	2.50740	0.01835
sg13g2_sdfrbp_2	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.00848	0.32940	0.00815	2.50740	0.01106
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.00863	0.32940	0.00829	2.50740	0.01120
	(!RESET_B * !Q	0.01860	0.00094	0.32940	0.00062	2.50740	0.00351
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.00860	0.32940	0.00826	2.50740	0.01118

	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	0.00862	0.32940	0.00829	2.50740	0.01120
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	0.01671	0.32940	0.01628	2.50740	0.01915
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	0.01538	0.32940	0.01517	2.50740	0.01836
sg13g2_sdfrbp_1	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.00847	0.32940	0.00815	2.50740	0.01106
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.00863	0.32940	0.00829	2.50740	0.01120
	(!RESET_B * !Q * Q_N)	0.01860	0.00094	0.32940	0.00061	2.50740	0.00351
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.00859	0.32940	0.00826	2.50740	0.01118

SDFRRS



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

			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	X	0	x	1	0
x	x	x	0	1	x	0	1
x	x	X	1	1	X	IQ	IQN

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Call Name	Pin Cap(pf)							Max Cap(pf)	
Cell Name	D	D SCD SCE RESET_B SET_B CLK					Q	Q_N	
sg13g2_sdfbbp_1	0.00188	0.00184	0.00334	0.00163	0.00493	0.00283	0.30000	0.30000	

Leakage Information

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_sdfbbp_1	2507.40000	3658.31000	4660.45000			

Delay Information Delay(ns) to Q rising:

Cell Name	Timing					Delay(ns)				
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
ca12a2 edfhhn 1	CLK->Q (RR)	0.01860	0.00100	0.47634	0.32940	0.06480	0.88263	2.50740	0.30000	2.22409
sg13g2_sdfbbp_1	SET_B->Q (FR)	0.01860	0.00100	0.18817	0.32940	0.06480	0.61180	2.50740	0.30000	2.01409

Delay(ns) to Q falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	CLK->Q (RF)		0.00100	0.39002	0.32940	0.06480	0.75949	2.50740	0.30000	1.96712
sg13g2_sdfbbp_1	RESET_B->Q (FF)	0.01860	0.00100	0.32105	0.32940	0.06480	0.70443	2.50740	0.30000	1.95737

Delay(ns) to Q rising (conditional):

Cell Name	Timing	When					Delay(ns)				
Cen Name	Arc(Dir)	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	0.47634	0.32940	0.06480	0.88263	2.50740	0.30000	2.22409

Delay(ns) to Q falling (conditional):

Call Name	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	0.39002	0.32940	0.06480	0.75949	2.50740	0.30000	1.96712

Delay(ns) to Q_N rising:

Cell Name	Timing Ang(Din)					Delay(ns)				
Cell Name	Timing Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
221222 adfiber 1	CLK->Q_N (RR)	0.01860	0.00100	0.32021	0.32940	0.06480	0.75921	2.50740	0.30000	2.12301
sg13g2_sdfbbp_1	RESET_B->Q_N (FR)	0.01860	0.00100	0.24950	0.32940	0.06480	0.71499	2.50740	0.30000	2.12626

Delay(ns) to Q_N falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12.2 101. 1	CLK->Q_N (RF)	0.01860	0.00100	0.39504	0.32940	0.06480	0.82508	2.50740	0.30000	2.01816
sg13g2_sdfbbp_1	SET_B->Q_N (FF)	0.01860	0.00100	0.12299	0.32940	0.06480	0.54394	2.50740	0.30000	1.83637

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing	When					Delay(ns)					
Cen Na	ame	Arc(Dir)	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sd	fbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	0.32021	0.32940	0.06480	0.75921	2.50740	0.30000	2.12301

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing	When					Delay(ns)				
Cen Name	Arc(Dir)	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	0.39504	0.32940	0.06480	0.82508	2.50740	0.30000	2.01816

Constraint Information

Constraints(ns) for D rising:

	T::	D.f				Co	onstraint(r	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12-2 -JEhh- 1	hold	CLK (R)	0.01860	0.01860	-0.15649	1.26300	1.26300	-0.37237	2.50740	2.50740	-0.49881
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.21029	1.26300	1.26300	0.41555	2.50740	2.50740	0.54899

Constraints(ns) for D falling:

	T:i	Def				Co	onstraint(1	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12-2 -JEhh- 1	hold	CLK (R)	0.01860	0.01860	-0.16138	1.26300	1.26300	-0.23206	2.50740	2.50740	-0.28630
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.25919	1.26300	1.26300	0.34269	2.50740	2.50740	0.42797

Constraints(ns) for SCD rising:

	T::	D.f				Co	onstraint(r	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12-2 -JELL- 1	hold	CLK (R)	0.01860	0.01860	-0.19806	1.26300	1.26300	-0.45872	2.50740	2.50740	-0.62277
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.25185	1.26300	1.26300	0.49920	2.50740	2.50740	0.66705

$Constraints (ns) \ for \ SCD \ falling:$

	Timina	Dof				Co	onstraint(1	ıs)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12-2 -JEhh- 1	hold	CLK (R)	0.01860	0.01860	-0.21029	1.26300	1.26300	-0.28063	2.50740	2.50740	-0.34533
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.30809	1.26300	1.26300	0.38856	2.50740	2.50740	0.48405

Constraints(ns) for SCE rising:

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	-0.17116	1.26300	1.26300	-0.41285	2.50740	2.50740	-0.55489
	setup	CLK (R)	0.01860	0.01860	0.22496	1.26300	1.26300	0.45602	2.50740	2.50740	0.60506

Constraints(ns) for SCE falling:

	T:	D.f	Constraint(ns)								
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12-2 -dfbb- 1	hold	CLK (R)	0.01860	0.01860	-0.16138	1.26300	1.26300	-0.19698	2.50740	2.50740	-0.23612
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.25919	1.26300	1.26300	0.30761	2.50740	2.50740	0.38075

Constraints(ns) for RESET_B rising:

	Timing Ref					Co	onstraint(r	ns)			
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12-2 -JELL 1	recovery	CLK (R)	0.01860	0.01860	0.11003	1.26300	1.26300	0.21047	2.50740	2.50740	0.26859
sg13g2_sdfbbp_1	removal	CLK (R)	0.01860	0.01860	-0.06602	1.26300	1.26300	-0.15651	2.50740	2.50740	-0.20366

$Constraints (ns) \ for \ RESET_B \ falling:$

		D-f				Co	nstraint(n	ıs)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	min_pulse_width	RESET_B	0.01860	0.00000	0.22400	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for SET_B rising:

	T::	D-f				Co	onstraint(r	ıs)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
	recovery	CLK (R)	0.01860	0.01860	0.03912	1.26300	1.26300	0.14031	2.50740	2.50740	0.56079
	removal	CLK (R)	0.01860	0.01860	0.06113	1.26300	1.26300	0.14301	2.50740	2.50740	0.17414
sg13g2_sdfbbp_1	hold	RESET_B (R)	0.01860	0.01860	-0.12470	1.26300	1.26300	-0.30222	2.50740	2.50740	-0.38665
	setup	RESET_B (R)	0.01860	0.01860	0.15894	1.26300	1.26300	0.35349	2.50740	2.50740	0.47225

Constraints(ns) for SET_B falling:

		Ref				Co	nstraint(n	ıs)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	min_pulse_width	SET_B ()	0.01860	0.00000	0.13748	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for CLK rising:

		Dof				Co	onstraint(n	ıs)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.15991	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for CLK falling:

		Ref				Co	onstraint(n	ıs)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.20798	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Power Information

Internal switching power(pJ) to Q rising:

Call Name	T4]	Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-2 -dfhh 1	CLK	0.01860	0.00100	0.01314	0.32940	0.06480	0.01330	2.50740	0.30000	0.01463
sg13g2_sdfbbp_1	SET_B	0.01860	0.00100	0.02476	0.32940	0.06480	0.06193	2.50740	0.30000	0.20183

Internal switching power(pJ) to Q falling:

Cell Name	T					Power(pJ)				
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12.2 [6]	CLK	0.01860	0.00100	0.01309	0.32940	0.06480	0.01318	2.50740	0.30000	0.01449
sg13g2_sdfbbp_1	RESET_B	0.01860	0.00100	0.02770	0.32940	0.06480	0.06526	2.50740	0.30000	0.20268

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

Cell Name	Immut	When		Power(pJ)									
Cell Name	ınput	when	Slew(ns)	ns) Load(pf) First Slew(ns) Load(pf)					Slew(ns)	Load(pf)	Last		
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.01314	0.32940	0.06480	0.01330	2.50740	0.30000	0.01463		

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

Call Name	Immut	When					Power(pJ)				
Cell Name	Input When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.01309	0.32940	0.06480	0.01318	2.50740	0.30000	0.01449

Internal switching power(pJ) to Q_N rising:

Call Name	T4	Power(pJ)											
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12-2 -JG-L 1	CLK	0.01860	0.00100	0.01310	0.32940	0.06480	0.01317	2.50740	0.30000	0.01440			
sg13g2_sdfbbp_1	RESET_B	0.01860	0.00100	0.02771	0.32940	0.06480	0.06533	2.50740	0.30000	0.20319			

Internal switching power(pJ) to Q_N falling:

Call Name	T4	Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
221222 adfiles 1	CLK	0.01860	0.00100	0.01316	0.32940	0.06480	0.01336	2.50740	0.30000	0.01459
sg13g2_sdfbbp_1	SET_B	0.01860	0.00100	0.02475	0.32940	0.06480	0.06166	2.50740	0.30000	0.20143

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

Cell Name	Innut	When		Power(pJ)							
Cen Name	Input	when		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.01310	0.32940	0.06480	0.01317	2.50740	0.30000	0.01440

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

Call Name	Tunut	Whom		Power(pJ) Slew(ns) Load(pf) First Slew(ns) Load(pf) Mid Slew(ns) Load(p							
Cell Name	Input	When								Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.01316	0.32940	0.06480	0.01336	2.50740	0.30000	0.01459

Passive power(pJ) for D rising:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.00894	0.32940	0.00873	2.50740	0.00984			

Passive power(pJ) for D falling:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.00895	0.32940	0.00872	2.50740	0.00985			

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

Call Name	When		Power(pJ)							
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	0.00894	0.32940	0.00873	2.50740	0.00984			
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	-0.00013	0.32940	-0.00031	2.50740	0.00066			

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

Call Name	When	Power(pJ)								
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
	(!CLK * RESET_B * !SCE * SET_B)	0.01860	0.00895	0.32940	0.00872	2.50740	0.00985			
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	0.00415	0.32940	0.00396	2.50740	0.00495			

Passive power(pJ) for SCD rising:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.01014	0.32940	0.01002	2.50740	0.01061			

Passive power(pJ) for SCD falling:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.01157	0.32940	0.01137	2.50740	0.01197			

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

Call Name	When	Power(pJ)								
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
	(!CLK * RESET_B * SCE * SET_B)	0.01860	0.01014	0.32940	0.01002	2.50740	0.01061			
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * !SET_B)	0.01860	0.00482	0.32940	0.00473	2.50740	0.00524			

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

Call Name	When		Power(pJ)							
Cell Name	vv nen	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	0.01157	0.32940	0.01137	2.50740	0.01197			
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	-0.00149	0.32940	-0.00156	2.50740	-0.00107			

Passive power(pJ) for SCE rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.00886	0.32940	0.00814	2.50740	0.00960			

Passive power(pJ) for SCE falling:

Cell Name		Power(pJ)						
Cen Name	Slew(ns)	Slew(ns) First Slew(ns) Mid Slew(ns) Last						
sg13g2_sdfbbp_1	0.01860	0.01178	0.32940	0.01165	2.50740	0.01301		

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

Call Name	When	Power(pJ)						
Cell Name	when	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	0.01181	0.32940	0.01169	2.50740	0.01317	
12-2 -JGJ 1	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	0.00886	0.32940	0.00814	2.50740	0.00960	
sg13g2_sdfbbp_1	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	0.01051	0.32940	0.01025	2.50740	0.01293	
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	0.00511	0.32940	0.00487	2.50740	0.00745	

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

Call Name	When			Powe	er(pJ)		
Cell Name	vvnen	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	0.01178	0.32940	0.01165	2.50740	0.01301
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	0.01016	0.32940	0.01474	2.50740	0.01645
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	0.00350	0.32940	0.01295	2.50740	0.02096
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	-0.00291	0.32940	-0.00313	2.50740	-0.00100

Passive power(pJ) for CLK rising:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfbbp_1	0.01860	0.00972	0.32940	0.00924	2.50740	0.01225		

Passive power(pJ) for CLK falling:

Call Name		Power(pJ)						
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfbbp_1	0.01860	0.00898	0.32940	0.00865	2.50740	0.01152		

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

CHN	***			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	0.00993	0.32940	0.00949	2.50740	0.01247
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	0.01015	0.32940	0.00972	2.50740	0.01261
sg13g2_sdfbbp_1	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	0.00974	0.32940	0.00925	2.50740	0.01225
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	0.00568	0.32940	0.00526	2.50740	0.00824
	(!RESET_B * !Q * Q_N)	0.01860	0.00229	0.32940	0.00181	2.50740	0.00482
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	0.00972	0.32940	0.00924	2.50740	0.01225

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

Call Name	XX/In one			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	0.00885	0.32940	0.00853	2.50740	0.01139
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	0.01607	0.32940	0.01564	2.50740	0.01846
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	0.00425	0.32940	0.00398	2.50740	0.00705
sg13g2_sdfbbp_1	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	0.01729	0.32940	0.01698	2.50740	0.02009
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	0.00898	0.32940	0.00865	2.50740	0.01152
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	0.00887	0.32940	0.00852	2.50740	0.01139
	(!RESET_B * !Q * Q_N)	0.01860	0.00080	0.32940	0.00048	2.50740	0.00334
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	0.00896	0.32940	0.00863	2.50740	0.01150

SGCLK



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

	NPUT		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)		
Cen Name	GATE	SCE	CLK	GCLK	
sg13g2_slgcp_1	0.00182	0.00218	0.00461	0.30000	

Cell Name	Leakage(pW)					
Cen Name	Min.	Avg	Max.			
sg13g2_slgcp_1	1673.79000	2008.50000	2370.65000			

Delay Information Delay(ns) to GCLK rising:

Cell Name	Timing		Delay(ns)							
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK->GCLK (RR)	0.01860	0.00100	0.11397	0.32940	0.06480	0.51648	2.50740	0.30000	1.85003

Delay(ns) to GCLK falling:

Cell Name	Timing		Delay(ns)								
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_slgcp_1	CLK->GCLK (FF)	0.01860	0.00100	0.09092	0.32940	0.06480	0.46704	2.50740	0.30000	1.64058	

Constraint Information

Constraints(ns) for GATE rising:

	Timing					Co	onstraint(r	ns)			
Cell Name	Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
221222 clean 1	hold	CLK (R)	0.01860	0.01860	-0.06573	1.26300	1.26300	-0.27401	2.50740	2.50740	-0.38333
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.10512	1.26300	1.26300	0.36957	2.50740	2.50740	0.51278

Constraints(ns) for GATE falling:

	TD*	D · C				Co	onstraint(r	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12.2	hold	CLK (R)	0.01860	0.01860	-0.11081	1.26300	1.26300	-0.21670	2.50740	2.50740	-0.29195
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.19112	1.26300	1.26300	0.29052	2.50740	2.50740	0.37678

Constraints(ns) for SCE rising:

	Timing	Def		Constraint(ns)								
Cell Name	Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
201202 alasa 1	hold	CLK (R)	0.01860	0.01860	-0.07250	1.26300	1.26300	-0.30715	2.50740	2.50740	-0.43308	
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.11354	1.26300	1.26300	0.40380	2.50740	2.50740	0.55951	

Constraints(ns) for SCE falling:

Timing	Ref				Constraint(ns)						
Cell Name	Check	_	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
ag13g2 algan 1	hold	CLK (R)	0.01860	0.01860	-0.11913	1.26300	1.26300	-0.20514	2.50740	2.50740	-0.27619
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.20073	1.26300	1.26300	0.27205	2.50740	2.50740	0.35027

Constraints(ns) for CLK rising:

		Ref				Co	nstraint(n	s)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.36179	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for CLK falling:

		Ref		Constraint(ns)										
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last			
sg13g2_slgcp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.15991	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818			

Power Information

Internal switching power(pJ) to GCLK rising:

Cell Name	Innut	Power(pJ)								
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	0.00640	0.32940	0.06480	0.00645	2.50740	0.30000	0.00764

Internal switching power(pJ) to GCLK falling:

Cell Name	Innut	Power(pJ)								
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	0.00557	0.32940	0.06480	0.00573	2.50740	0.30000	0.00771

Passive power(pJ) for GATE rising :

Call Name			Powe	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	0.01477	0.32940	0.01518	2.50740	0.01704

Passive power(pJ) for GATE falling:

Call Name			Powe	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	0.01013	0.32940	0.02233	2.50740	0.02472

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

Call Name	Whon	Power(pJ)							
Cell Name	wnen	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_slgcp_1	!CLK	0.01860	0.01477	0.32940	0.01518	2.50740	0.01704		

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

Call Name	When			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	!CLK	0.01860	0.01013	0.32940	0.02233	2.50740	0.02472

Passive power(pJ) for SCE rising:

Call Name			Powe	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	0.00511	0.32940	0.00493	2.50740	0.00672

Passive power(pJ) for SCE falling:

Call Name			Powe	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	0.00997	0.32940	0.02182	2.50740	0.02344

Passive power(pJ) for CLK rising :

Call Name			Power	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	0.00638	0.32940	0.00612	2.50740	0.00874

Passive power(pJ) for CLK falling:

Call Name	Power(pJ)					
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	0.00501	0.32940	0.00473	2.50740	0.00732

TIE0



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Footprint

Cell Name	Area
sg13g2_tielo	7.25760

Pin Capacitance Information

Call Name	Max Cap(pf)
Cell Name	L_LO
sg13g2_tielo	-

Call Name	Leakage(pW)			
Cell Name	Min.	Avg	Max.	
sg13g2_tielo	12.60110	12.60110	12.60110	





sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Footprint

Cell Name	Area
sg13g2_tiehi	7.25760

Pin Capacitance Information

Call Nama	Max Cap(pf)
Cell Name	L_HI
sg13g2_tiehi	-

Call Name	Leakage(pW)			
Cell Name	Min.	Avg	Max.	
sg13g2_tiehi	14.33880	14.33880	14.33880	

XNOR2_1



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INP	UT	OUTPUT
A	В	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

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	A	В	Y
sg13g2_xnor2_1	0.00520	0.00479	0.30000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_xnor2_1	279.16200	857.22300	1222.57000					

Delay Information Delay(ns) to Y rising:

Call Name	Timing	8								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (-R)	0.01860	0.00100	0.08067	0.32940	0.06480	0.79791	2.50740	0.30000	3.80957
sg13g2_xnor2_1	B->Y (-R)	0.01860	0.00100	0.07071	0.32940	0.06480	0.80460	2.50740	0.30000	3.98641

Delay(ns) to Y falling:

Cell Name	Timing										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
12.2 2.1	A->Y (-F)	0.01860	0.00100	0.07322	0.32940	0.06480	0.67006	2.50740	0.30000	3.32794	
sg13g2_xnor2_1	B->Y (-F)	0.01860	0.00100	0.06327	0.32940	0.06480	0.65785	2.50740	0.30000	3.30859	

Delay(ns) to Y rising (conditional):

Cell Name	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (RR)	В	0.01860	0.00100	0.11272	0.32940	0.06480	0.51659	2.50740	0.30000	1.84637
	A->Y (FR)	!B	0.01860	0.00100	0.08067	0.32940	0.06480	0.79791	2.50740	0.30000	3.80957
sg13g2_xnor2_1	B->Y (RR)	A	0.01860	0.00100	0.10558	0.32940	0.06480	0.50586	2.50740	0.30000	1.81284
	B->Y (FR)	!A	0.01860	0.00100	0.07071	0.32940	0.06480	0.80460	2.50740	0.30000	3.98641

Delay(ns) to Y falling (conditional):

Call Name	Timing	Whom					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (FF)	В	0.01860	0.00100	0.10665	0.32940	0.06480	0.67345	2.50740	0.30000	2.55662
	A->Y (RF)	!B	0.01860	0.00100	0.07322	0.32940	0.06480	0.67006	2.50740	0.30000	3.32794
sg13g2_xnor2_1	B->Y (FF)	A	0.01860	0.00100	0.10886	0.32940	0.06480	0.65807	2.50740	0.30000	2.51036
	B->Y (RF)	!A	0.01860	0.00100	0.06327	0.32940	0.06480	0.65785	2.50740	0.30000	3.30859

Power Information

Internal switching power(pJ) to Y rising:

Call Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
aa12a2au2 1	A	0.01860	0.00100	0.00619	0.32940	0.06480	0.00623	2.50740	0.30000	0.00725
sg13g2_xnor2_1	В	0.01860	0.00100	0.00635	0.32940	0.06480	0.00612	2.50740	0.30000	0.00769

Internal switching power(pJ) to Y falling:

Call Name	I4]	Power(pJ)				
Cell Name	Input		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-2 2 1	A	0.01860	0.00100	0.00572	0.32940	0.06480	0.00579	2.50740	0.30000	0.00741
sg13g2_xnor2_1	В	0.01860	0.00100	0.00612	0.32940	0.06480	0.00509	2.50740	0.30000	0.00644

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

Call Name	T4	Power(pJ)									
Cell Name	Input	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A	В	0.01860	0.00100	0.00619	0.32940	0.06480	0.00623	2.50740	0.30000	0.00725
12_2 1	A	!B	0.01860	0.00100	0.00406	0.32940	0.06480	0.00386	2.50740	0.30000	0.00399
sg13g2_xnor2_1	В	A	0.01860	0.00100	0.00635	0.32940	0.06480	0.00612	2.50740	0.30000	0.00769
	В	!A	0.01860	0.00100	0.00277	0.32940	0.06480	0.00270	2.50740	0.30000	0.00275

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

Cell Name	T4		Power(pJ)									
Cen rame 1	Input		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	В	0.01860	0.00100	0.00572	0.32940	0.06480	0.00579	2.50740	0.30000	0.00741	
12-2 2 1	A	!B	0.01860	0.00100	0.00405	0.32940	0.06480	0.00384	2.50740	0.30000	0.00361	
sg13g2_xnor2_1	В	A	0.01860	0.00100	0.00612	0.32940	0.06480	0.00509	2.50740	0.30000	0.00644	
	В	!A	0.01860	0.00100	0.00338	0.32940	0.06480	0.00338	2.50740	0.30000	0.00310	

XOR2_1



sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INP	UT	OUTPUT
A	В	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

Call Name	Pin C	ap(pf)	Max Cap(pf)
Cell Name	A	В	X
sg13g2_xor2_1	0.00531	0.00484	0.30000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_xor2_1	674.43600	861.63500	1243.37000					

Delay Information Delay(ns) to X rising:

Call Name	Timing		Delay(ns)											
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
221222 2222 1	A->X (-R)	0.01860	0.00100	0.08712	0.32940	0.06480	0.80697	2.50740	0.30000	3.82398				
sg13g2_xor2_1	B->X (-R)	0.01860	0.00100	0.07578	0.32940	0.06480	0.79434	2.50740	0.30000	3.80682				

Delay(ns) to X falling:

Call Name	Timing	Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
221222 2222 1	A->X (-F)	0.01860	0.00100	0.06676	0.32940	0.06480	0.66284	2.50740	0.30000	3.31316		
sg13g2_xor2_1	B->X (-F)	0.01860	0.00100	0.05896	0.32940	0.06480	0.66866	2.50740	0.30000	3.43158		

Delay(ns) to X rising (conditional):

Call Name	Timing	When					Delay(ns)				
	Arc(Dir)	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->X (RR)	!B	0.01860	0.00100	0.10920	0.32940	0.06480	0.82393	2.50740	0.30000	3.28769
sg13g2_xor2_1	A->X (FR)	В	0.01860	0.00100	0.08712	0.32940	0.06480	0.80697	2.50740	0.30000	3.82398
	B->X (RR)	!A	0.01860	0.00100	0.11377	0.32940	0.06480	0.80788	2.50740	0.30000	3.22945
	B->X (FR)	A	0.01860	0.00100	0.07578	0.32940	0.06480	0.79434	2.50740	0.30000	3.80682

Delay(ns) to X falling (conditional):

C-II N	Timing	XX/1	Delay(ns)									
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A->X (FF)	!B	0.01860	0.00100	0.13354	0.32940	0.06480	0.49977	2.50740	0.30000	1.63756	
	A->X (RF)	В	0.01860	0.00100	0.06676	0.32940	0.06480	0.66284	2.50740	0.30000	3.31316	
sg13g2_xor2_1	B->X (FF)	!A	0.01860	0.00100	0.12465	0.32940	0.06480	0.49271	2.50740	0.30000	1.62730	
	B->X (RF)	A	0.01860	0.00100	0.05896	0.32940	0.06480	0.66866	2.50740	0.30000	3.43158	

Power Information

Internal switching power(pJ) to X rising:

Cell Name	T4		Power(pJ)											
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
aa12a2 waw2 1	A	0.01860	0.00100	0.00565	0.32940	0.06480	0.00561	2.50740	0.30000	0.00756				
sg13g2_xor2_1	В	0.01860	0.00100	0.00606	0.32940	0.06480	0.00511	2.50740	0.30000	0.00696				

Internal switching power(pJ) to X falling:

Cell Name	Innut		Power(pJ)											
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
12.2 2.1	A	0.01860	0.00100	0.00665	0.32940	0.06480	0.00674	2.50740	0.30000	0.00794				
sg13g2_xor2_1	В	0.01860	0.00100	0.00622	0.32940	0.06480	0.00601	2.50740	0.30000	0.00778				

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

Call Name	T4	When	Power(pJ)										
Cell Name	Input	WHEH	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
	A	В	0.01860	0.00100	0.00418	0.32940	0.06480	0.00409	2.50740	0.30000	0.00427		
12-22 1	A	!B	0.01860	0.00100	0.00565	0.32940	0.06480	0.00561	2.50740	0.30000	0.00756		
sg13g2_xor2_1	В	A	0.01860	0.00100	0.00340	0.32940	0.06480	0.00340	2.50740	0.30000	0.00344		
	В	!A	0.01860	0.00100	0.00606	0.32940	0.06480	0.00511	2.50740	0.30000	0.00696		

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

C-II N	T4	XX/I	Power(pJ)									
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	В	0.01860	0.00100	0.00415	0.32940	0.06480	0.00378	2.50740	0.30000	0.00349	
	A	!B	0.01860	0.00100	0.00665	0.32940	0.06480	0.00674	2.50740	0.30000	0.00794	
sg13g2_xor2_1	В	A	0.01860	0.00100	0.00341	0.32940	0.06480	0.00319	2.50740	0.30000	0.00308	
	В	!A	0.01860	0.00100	0.00622	0.32940	0.06480	0.00601	2.50740	0.30000	0.00778	