$sg13g2_stdcell_slow_1p35V_125C\ Library$

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_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, Temp 125.00

Truth Table

I	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	0.00571	0.00602	0.00552	0.60000
sg13g2_a21oi_1	0.00296	0.00302	0.00282	0.30000

Call Name		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_a21oi_2	570.10900	1407.60000	3188.44000						
sg13g2_a21oi_1	285.06600	703.80900	1594.23000						

Delay Information Delay(ns) to Y rising:

C.II N.	Timing	g 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	0.04246	0.32940	0.12960	0.53592	2.50740	0.60000	2.62723
sg13g2_a21oi_2	A2->Y (FR)	0.01860	0.00100	0.05142	0.32940	0.12960	0.54414	2.50740	0.60000	2.63228
	B1->Y (FR)	0.01860	0.00100	0.04034	0.32940	0.12960	0.56333	2.50740	0.60000	2.87778
	A1->Y (FR)	0.01860	0.00100	0.04698	0.32940	0.06480	0.53562	2.50740	0.30000	2.62028
sg13g2_a21oi_1	A2->Y (FR)	0.01860	0.00100	0.05558	0.32940	0.06480	0.54504	2.50740	0.30000	2.63387
	B1->Y (FR)	0.01860	0.00100	0.04461	0.32940	0.06480	0.56428	2.50740	0.30000	2.87969

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	0.03638	0.32940	0.12960	0.46603	2.50740	0.60000	2.40921
	A2->Y (RF)	0.01860	0.00100	0.04136	0.32940	0.12960	0.44765	2.50740	0.60000	2.24096
	B1->Y (RF)	0.01860	0.00100	0.02009	0.32940	0.12960	0.34300	2.50740	0.60000	1.86888
	A1->Y (RF)	0.01860	0.00100	0.04010	0.32940	0.06480	0.46666	2.50740	0.30000	2.40783
sg13g2_a21oi_1	A2->Y (RF)	0.01860	0.00100	0.04468	0.32940	0.06480	0.44785	2.50740	0.30000	2.24020
	B1->Y (RF)	0.01860	0.00100	0.02256	0.32940	0.06480	0.34391	2.50740	0.30000	1.87096

Delay(ns) to Y rising (conditional):

Call Name	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	0.04034	0.32940	0.12960	0.56333	2.50740	0.60000	2.87778
sg13g2_a21oi_2	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.03019	0.32940	0.12960	0.55361	2.50740	0.60000	2.87193
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	0.02516	0.32940	0.12960	0.45721	2.50740	0.60000	2.43501
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.04461	0.32940	0.06480	0.56428	2.50740	0.30000	2.87969
sg13g2_a21oi_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.03460	0.32940	0.06480	0.55285	2.50740	0.30000	2.86390
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	0.02851	0.32940	0.06480	0.45736	2.50740	0.30000	2.43254

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
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.02009	0.32940	0.12960	0.34300	2.50740	0.60000	1.86888
sg13g2_a21oi_2	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.01978	0.32940	0.12960	0.34166	2.50740	0.60000	1.86582
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	0.01949	0.32940	0.12960	0.34129	2.50740	0.60000	1.86606
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.02256	0.32940	0.06480	0.34391	2.50740	0.30000	1.87096
sg13g2_a21oi_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.02226	0.32940	0.06480	0.34257	2.50740	0.30000	1.86733
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	0.02197	0.32940	0.06480	0.34221	2.50740	0.30000	1.86839

Power Information

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	
	A1	0.01860	0.00100	0.01095	0.32940	0.12960	0.01124	2.50740	0.60000	0.01668	
sg13g2_a21oi_2	A2	0.01860	0.00100	0.01182	0.32940	0.12960	0.01156	2.50740	0.60000	0.01728	
	B1	0.01860	0.00100	0.00539	0.32940	0.12960	0.00649	2.50740	0.60000	0.01386	
	A1	0.01860	0.00100	0.00550	0.32940	0.06480	0.00554	2.50740	0.30000	0.00818	
sg13g2_a21oi_1	A2	0.01860	0.00100	0.00586	0.32940	0.06480	0.00572	2.50740	0.30000	0.00844	
	B1	0.01860	0.00100	0.00275	0.32940	0.06480	0.00320	2.50740	0.30000	0.00683	

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	0.00748	0.32940	0.12960	0.00750	2.50740	0.60000	0.01319
sg13g2_a21oi_2	A2	0.01860	0.00100	0.01167	0.32940	0.12960	0.01134	2.50740	0.60000	0.01654
	B1	0.01860	0.00100	0.00355	0.32940	0.12960	0.00481	2.50740	0.60000	0.01292
	A1	0.01860	0.00100	0.00419	0.32940	0.06480	0.00420	2.50740	0.30000	0.00702
sg13g2_a21oi_1	A2	0.01860	0.00100	0.00618	0.32940	0.06480	0.00600	2.50740	0.30000	0.00858
	B1	0.01860	0.00100	0.00226	0.32940	0.06480	0.00281	2.50740	0.30000	0.00664

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

Cell Name	Immut	When]	Power(pJ)				
Cell Name	Input	it when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	B1	(A1 * !A2)	0.01860	0.00100	0.00663	0.32940	0.12960	0.00708	2.50740	0.60000	0.01468
sg13g2_a21oi_2	B1	(!A1 * A2)	0.01860	0.00100	0.00538	0.32940	0.12960	0.00624	2.50740	0.60000	0.01408
	B1	(!A1 * !A2)	0.01860	0.00100	0.00539	0.32940	0.12960	0.00649	2.50740	0.60000	0.01386
	B1	(A1 * !A2)	0.01860	0.00100	0.00323	0.32940	0.06480	0.00344	2.50740	0.30000	0.00727
sg13g2_a21oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00274	0.32940	0.06480	0.00306	2.50740	0.30000	0.00695
	B1	(!A1 * !A2)	0.01860	0.00100	0.00275	0.32940	0.06480	0.00320	2.50740	0.30000	0.00683

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	0.00775	0.32940	0.12960	0.00903	2.50740	0.60000	0.01628
sg13g2_a21oi_2	B1	(!A1 * A2)	0.01860	0.00100	0.00373	0.32940	0.12960	0.00507	2.50740	0.60000	0.01261
	B1	(!A1 * !A2)	0.01860	0.00100	0.00355	0.32940	0.12960	0.00481	2.50740	0.60000	0.01292
	B1	(A1 * !A2)	0.01860	0.00100	0.00437	0.32940	0.06480	0.00487	2.50740	0.30000	0.00856
sg13g2_a21oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00236	0.32940	0.06480	0.00291	2.50740	0.30000	0.00644
	B1	(!A1 * !A2)	0.01860	0.00100	0.00226	0.32940	0.06480	0.00281	2.50740	0.30000	0.00664

A2210I



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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
x	X	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
sg13g2_a221oi_1	14.51520

Pin Capacitance Information

Cell Name			Pin Cap(pf))		Max Cap(pf)
Cen Name	A1	A2	B1	B2	C1	Y
sg13g2_a221oi_1	0.00291	0.00297	0.00286	0.00298	0.00279	0.30000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_a221oi_1	364.95300	967.84500	2189.62000				

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	0.10840	0.32940	0.06480	0.77188	2.50740	0.30000	3.37701
	A2->Y (FR)	0.01860	0.00100	0.12093	0.32940	0.06480	0.78431	2.50740	0.30000	3.38755
sg13g2_a221oi_1	B1->Y (FR)	0.01860	0.00100	0.09712	0.32940	0.06480	0.77678	2.50740	0.30000	3.58107
	B2->Y (FR)	0.01860	0.00100	0.10970	0.32940	0.06480	0.78873	2.50740	0.30000	3.59146
	C1->Y (FR)	0.01860	0.00100	0.06180	0.32940	0.06480	0.66883	2.50740	0.30000	3.30813

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
	A1->Y (RF)	0.01860	0.00100	0.05291	0.32940	0.06480	0.48878	2.50740	0.30000	2.43726
	A2->Y (RF)	0.01860	0.00100	0.05719	0.32940	0.06480	0.46983	2.50740	0.30000	2.26838
sg13g2_a221oi_1	B1->Y (RF)	0.01860	0.00100	0.04703	0.32940	0.06480	0.47715	2.50740	0.30000	2.42097
	B2->Y (RF)	0.01860	0.00100	0.05159	0.32940	0.06480	0.45747	2.50740	0.30000	2.25263
	C1->Y (RF)	0.01860	0.00100	0.02593	0.32940	0.06480	0.34730	2.50740	0.30000	1.87388

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

	A1->Y (FR)	(A2 * B1 * !B2 * !C1)	0.01860	0.00100	0.10840	0.32940	0.06480	0.77188	2.50740	0.30000	3.37701
	A1->Y (FR)	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.09310	0.32940	0.06480	0.75750	2.50740	0.30000	3.36626
	A1->Y (FR)	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.08344	0.32940	0.06480	0.66026	2.50740	0.30000	2.99178
	A2->Y (FR)	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.12093	0.32940	0.06480	0.78431	2.50740	0.30000	3.38755
	A2->Y (FR)	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.10602	0.32940	0.06480	0.76986	2.50740	0.30000	3.37709
	A2->Y (FR)	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.09401	0.32940	0.06480	0.67043	2.50740	0.30000	3.00088
	B1->Y (FR)	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.09712	0.32940	0.06480	0.77678	2.50740	0.30000	3.58107
	B1->Y (FR)	(!A1 * A2 * B2 *	0.01860	0.00100	0.08174	0.32940	0.06480	0.76173	2.50740	0.30000	3.56877
	B1->Y (FR)	!C1) (!A1 *!A2 *B2 *	0.01860	0.00100	0.06848	0.32940	0.06480	0.65255	2.50740	0.30000	3.10372
sg13g2_a221oi_1	B2->Y (FR)	!C1) (A1 * !A2 * B1 * !G1)	0.01860	0.00100	0.10970	0.32940	0.06480	0.78873	2.50740	0.30000	3.59146
	B2->Y (FR)	!C1) (!A1 * A2 * B1 * !C1)	0.01860	0.00100	0.09463	0.32940	0.06480	0.77377	2.50740	0.30000	3.57891
	B2->Y (FR)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.07890	0.32940	0.06480	0.66224	2.50740	0.30000	3.10903
	C1->Y (FR)	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.05857	0.32940	0.06480	0.66600	2.50740	0.30000	3.30391
	C1->Y (FR)	(!A1 * A2 * !B1 *	0.01860	0.00100	0.04602	0.32940	0.06480	0.65366	2.50740	0.30000	3.29375
	C1->Y (FR)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.06180	0.32940	0.06480	0.66883	2.50740	0.30000	3.30813
	C1->Y (FR)	(!A1 *!A2 *!B1 *B2)	0.01860	0.00100	0.04925	0.32940	0.06480	0.65744	2.50740	0.30000	3.30219
	C1->Y (FR)	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.04085	0.32940	0.06480	0.55758	2.50740	0.30000	2.86848
		!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			

		T									
	A1->Y (RF)	(A2 * B1 * !B2 * !C1)	0.01860	0.00100	0.05168	0.32940	0.06480	0.48810	2.50740	0.30000	2.43705
	A1->Y (RF)	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.05067	0.32940	0.06480	0.48529	2.50740	0.30000	2.43203
	A1->Y (RF)	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.05291	0.32940	0.06480	0.48878	2.50740	0.30000	2.43726
	A2->Y (RF)	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.05595	0.32940	0.06480	0.46914	2.50740	0.30000	2.26820
	A2->Y (RF)	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.05494	0.32940	0.06480	0.46644	2.50740	0.30000	2.26403
	A2->Y (RF)	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.05719	0.32940	0.06480	0.46983	2.50740	0.30000	2.26838
	B1->Y (RF)	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.04703	0.32940	0.06480	0.47715	2.50740	0.30000	2.42097
	B1->Y (RF)	(!A1 * A2 * B2 * !C1)	0.01860	0.00100	0.04633	0.32940	0.06480	0.47449	2.50740	0.30000	2.41621
sg13g2_a221oi_1	B1->Y (RF)	(!A1 *!A2 *B2 *	0.01860	0.00100	0.04598	0.32940	0.06480	0.47285	2.50740	0.30000	2.41652
5g10g=_u=210_1	B2->Y (RF)	(A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.05159	0.32940	0.06480	0.45747	2.50740	0.30000	2.25263
	B2->Y (RF)	(!A1 * A2 * B1 *	0.01860	0.00100	0.05086	0.32940	0.06480	0.45480	2.50740	0.30000	2.24823
	B2->Y (RF)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.05052	0.32940	0.06480	0.45409	2.50740	0.30000	2.24920
	C1->Y (RF)	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.02577	0.32940	0.06480	0.34729	2.50740	0.30000	1.87377
	C1->Y (RF)	(!A1 * A2 * !B1 *	0.01860	0.00100	0.02548	0.32940	0.06480	0.34596	2.50740	0.30000	1.87052
	C1->Y (RF)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.02593	0.32940	0.06480	0.34730	2.50740	0.30000	1.87388
-	C1->Y (RF)	!B2) (!A1 *!A2 *!B1 *B2)	0.01860	0.00100	0.02564	0.32940	0.06480	0.34597	2.50740	0.30000	1.87082
	C1->Y (RF)	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.02542	0.32940	0.06480	0.34573	2.50740	0.30000	1.87141
		.102)	<u> </u>								

Power Information

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
sg13g2_a221oi_1	A1	0.01860	0.00100	0.01026	0.32940	0.06480	0.01017	2.50740	0.30000	0.01163
	A2	0.01860	0.00100	0.01050	0.32940	0.06480	0.01020	2.50740	0.30000	0.01197
	B1	0.01860	0.00100	0.00761	0.32940	0.06480	0.00748	2.50740	0.30000	0.00991
	B2	0.01860	0.00100	0.00788	0.32940	0.06480	0.00768	2.50740	0.30000	0.01008
	C1	0.01860	0.00100	0.00483	0.32940	0.06480	0.00515	2.50740	0.30000	0.00896

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	0.00665	0.32940	0.06480	0.00645	2.50740	0.30000	0.00885
	A2	0.01860	0.00100	0.00857	0.32940	0.06480	0.00830	2.50740	0.30000	0.01058
sg13g2_a221oi_1	B1	0.01860	0.00100	0.00434	0.32940	0.06480	0.00432	2.50740	0.30000	0.00694
	B2	0.01860	0.00100	0.00644	0.32940	0.06480	0.00632	2.50740	0.30000	0.00860
	C1	0.01860	0.00100	0.00243	0.32940	0.06480	0.00290	2.50740	0.30000	0.00655

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

Cell Name Input Whe	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	0.01026	0.32940	0.06480	0.01017	2.50740	0.30000	0.01163
	A1	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.00983	0.32940	0.06480	0.00988	2.50740	0.30000	0.01129
	A1	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.01206	0.32940	0.06480	0.01193	2.50740	0.30000	0.01443
	A2	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.01050	0.32940	0.06480	0.01020	2.50740	0.30000	0.01197
	A2	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.01013	0.32940	0.06480	0.01020	2.50740	0.30000	0.01164
	A2	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.01236	0.32940	0.06480	0.01206	2.50740	0.30000	0.01443
	B1	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.00806	0.32940	0.06480	0.00818	2.50740	0.30000	0.00957
	В1	(!A1 * A2 * B2 * !C1)	0.01860	0.00100	0.00760	0.32940	0.06480	0.00746	2.50740	0.30000	0.00922
sg13g2_a221oi_1	В1	(!A1 *!A2 *B2 *	0.01860	0.00100	0.00761	0.32940	0.06480	0.00748	2.50740	0.30000	0.00991
	B2	(A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.00824	0.32940	0.06480	0.00818	2.50740	0.30000	0.00985
	В2	(!A1 * A2 * B1 *	0.01860	0.00100	0.00785	0.32940	0.06480	0.00796	2.50740	0.30000	0.00955
	В2	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00788	0.32940	0.06480	0.00768	2.50740	0.30000	0.01008
	C1	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.00528	0.32940	0.06480	0.00538	2.50740	0.30000	0.00921
	C1	(!A1 * A2 * !B1 *	0.01860	0.00100	0.00482	0.32940	0.06480	0.00513	2.50740	0.30000	0.00905
	C1	!B2) (!A1 *!A2 *B1 *	0.01860	0.00100	0.00529	0.32940	0.06480	0.00540	2.50740	0.30000	0.00909
	C1	(!A1 * !A2 * !B1 * B2)	0.01860	0.00100	0.00482	0.32940	0.06480	0.00511	2.50740	0.30000	0.00910
	C1	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.00483	0.32940	0.06480	0.00515	2.50740	0.30000	0.00896
		!B2)									

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

Cell Name Input	VV/I				Power(pJ)					
Cell Name	ell 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	0.00867	0.32940	0.06480	0.00848	2.50740	0.30000	0.01070
	A1	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.00665	0.32940	0.06480	0.00645	2.50740	0.30000	0.00885
	A1	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00555	0.32940	0.06480	0.00536	2.50740	0.30000	0.00777
	A2	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.01058	0.32940	0.06480	0.01031	2.50740	0.30000	0.01251
	A2	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.00857	0.32940	0.06480	0.00830	2.50740	0.30000	0.01058
	A2	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00748	0.32940	0.06480	0.00720	2.50740	0.30000	0.00945
	В1	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.00644	0.32940	0.06480	0.00642	2.50740	0.30000	0.00873
	В1	(!A1 * A2 * B2 * !C1)	0.01860	0.00100	0.00441	0.32940	0.06480	0.00441	2.50740	0.30000	0.00687
sg13g2_a221oi_1	В1	(!A1 *!A2 *B2 *	0.01860	0.00100	0.00434	0.32940	0.06480	0.00432	2.50740	0.30000	0.00694
5g15g2_u22101_1	B2	(A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.00844	0.32940	0.06480	0.00832	2.50740	0.30000	0.01059
	B2	(!A1 * A2 * B1 *	0.01860	0.00100	0.00644	0.32940	0.06480	0.00632	2.50740	0.30000	0.00860
	B2	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00636	0.32940	0.06480	0.00619	2.50740	0.30000	0.00867
	C1	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.00446	0.32940	0.06480	0.00492	2.50740	0.30000	0.00823
	C1	(!A1 * A2 * !B1 *	0.01860	0.00100	0.00245	0.32940	0.06480	0.00302	2.50740	0.30000	0.00635
	C1	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00451	0.32940	0.06480	0.00492	2.50740	0.30000	0.00825
	C1	(!A1 * !A2 * !B1 * B2)	0.01860	0.00100	0.00250	0.32940	0.06480	0.00301	2.50740	0.30000	0.00639
	C1	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.00243	0.32940	0.06480	0.00290	2.50740	0.30000	0.00655
				1	L		1				

A220I



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

Truth Table

	INP	UT		OUTPUT
A1	A2	B 1	B2	Y
0	x	0	x	1
0	X	1	0	1
x	X	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
sg13g2_a22oi_1	10.84860

Pin Capacitance Information

Cell Name		Pin Cap(pf) Max Cap(
Cen Name	A1	A1 A2	B1	B2	Y			
sg13g2_a22oi_1	0.00305	0.00306	0.00299	0.00295	0.30000			

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_a22oi_1	158.84300	900.79300	1968.85000					

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
sg13g2_a22oi_1	A1->Y (FR)	0.01860	0.00100	0.05447	0.32940	0.06480	0.54363	2.50740	0.30000	2.62757
	A2->Y (FR)	0.01860	0.00100	0.06225	0.32940	0.06480	0.55091	2.50740	0.30000	2.63332
	B1->Y (FR)	0.01860	0.00100	0.05813	0.32940	0.06480	0.57658	2.50740	0.30000	2.88719
	B2->Y (FR)	0.01860	0.00100	0.04950	0.32940	0.06480	0.56663	2.50740	0.30000	2.87113

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		
	A1->Y (RF)	0.01860	0.00100	0.04554	0.32940	0.06480	0.47302	2.50740	0.30000	2.41526		
	A2->Y (RF)	0.01860	0.00100	0.04971	0.32940	0.06480	0.45380	2.50740	0.30000	2.24671		
sg13g2_a22oi_1	B1->Y (RF)	0.01860	0.00100	0.03981	0.32940	0.06480	0.44236	2.50740	0.30000	2.23373		
	B2->Y (RF)	0.01860	0.00100	0.03488	0.32940	0.06480	0.46126	2.50740	0.30000	2.40209		

Delay(ns) to Y rising (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
	A1->Y (FR)	(A2 * B1)	0.01860	0.00100	0.05447	0.32940	0.06480	0.54363	2.50740	0.30000	2.62757
	A2->Y (FR)	(A1 * B1)	0.01860	0.00100	0.06225	0.32940	0.06480	0.55091	2.50740	0.30000	2.63332
12-222-: 1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.05813	0.32940	0.06480	0.57658	2.50740	0.30000	2.88719
sg13g2_a22oi_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.04855	0.32940	0.06480	0.56554	2.50740	0.30000	2.87088
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.04950	0.32940	0.06480	0.56663	2.50740	0.30000	2.87113
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.03995	0.32940	0.06480	0.55806	2.50740	0.30000	2.86611

Delay(ns) to Y falling (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 (RF)	(A2 * B1)	0.01860	0.00100	0.04554	0.32940	0.06480	0.47302	2.50740	0.30000	2.41526
	A2->Y (RF)	(A1 * B1)	0.01860	0.00100	0.04971	0.32940	0.06480	0.45380	2.50740	0.30000	2.24671
221222 2223 1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.03981	0.32940	0.06480	0.44236	2.50740	0.30000	2.23373
sg13g2_a22oi_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.03928	0.32940	0.06480	0.43988	2.50740	0.30000	2.22991
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.03488	0.32940	0.06480	0.46126	2.50740	0.30000	2.40209
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.03437	0.32940	0.06480	0.45866	2.50740	0.30000	2.39778

Power Information

Internal switching power(pJ) to Y rising:

Cell Name	T4		Power(pJ)										
Cen ivanic in	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A1	0.01860	0.00100	0.00589	0.32940	0.06480	0.00581	2.50740	0.30000	0.00853			
12-2 -22-1	A2	0.01860	0.00100	0.00612	0.32940	0.06480	0.00602	2.50740	0.30000	0.00863			
sg13g2_a22oi_1	B1	0.01860	0.00100	0.00397	0.32940	0.06480	0.00399	2.50740	0.30000	0.00730			
	B2	0.01860	0.00100	0.00366	0.32940	0.06480	0.00377	2.50740	0.30000	0.00709			

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			
	A1	0.01860	0.00100	0.00622	0.32940	0.06480	0.00616	2.50740	0.30000	0.00892			
12.2.22.1	A2	0.01860	0.00100	0.00815	0.32940	0.06480	0.00797	2.50740	0.30000	0.01049			
sg13g2_a22oi_1	B1	0.01860	0.00100	0.00750	0.32940	0.06480	0.00765	2.50740	0.30000	0.01021			
	B2	0.01860	0.00100	0.00547	0.32940	0.06480	0.00585	2.50740	0.30000	0.00853			

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

CHN	т 4	***					Power(pJ)				
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	(A2 * B1)	0.01860	0.00100	0.00589	0.32940	0.06480	0.00581	2.50740	0.30000	0.00853
	A2	(A1 * B1)	0.01860	0.00100	0.00612	0.32940	0.06480	0.00602	2.50740	0.30000	0.00863
	B1	(A1 * !A2)	0.01860	0.00100	0.00397	0.32940	0.06480	0.00399	2.50740	0.30000	0.00730
sg13g2_a22oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00369	0.32940	0.06480	0.00374	2.50740	0.30000	0.00722
,	B2	(A1 * !A2)	0.01860	0.00100	0.00366	0.32940	0.06480	0.00377	2.50740	0.30000	0.00709
	B2	(!A1 * A2)	0.01860	0.00100	0.00329	0.32940	0.06480	0.00355	2.50740	0.30000	0.00686

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

Cell Name	Immut	When]	Power(pJ)				
Cen Name	Input	WHEH	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	(A2 * B1)	0.01860	0.00100	0.00622	0.32940	0.06480	0.00616	2.50740	0.30000	0.00892
	A2	(A1 * B1)	0.01860	0.00100	0.00815	0.32940	0.06480	0.00797	2.50740	0.30000	0.01049
12-222-: 1	B1	(A1 * !A2)	0.01860	0.00100	0.00750	0.32940	0.06480	0.00765	2.50740	0.30000	0.01021
sg13g2_a22oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00547	0.32940	0.06480	0.00566	2.50740	0.30000	0.00820
	B2	(A1 * !A2)	0.01860	0.00100	0.00547	0.32940	0.06480	0.00585	2.50740	0.30000	0.00853
	B2	(!A1 * A2)	0.01860	0.00100	0.00345	0.32940	0.06480	0.00384	2.50740	0.30000	0.00656





sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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

Cell Name	Pin C	ap(pf)	Max Cap(pf)
Cen Name	A	В	X
sg13g2_and2_2	0.00251	0.00253	0.60000
sg13g2_and2_1	0.00251	0.00252	0.30000

Call Name		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_and2_2	1558.32000	1632.72000	1710.11000						
sg13g2_and2_1	823.86200	1010.75000	1352.74000						

Delay Information Delay(ns) to X 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_and2_2	A->X (RR)	0.01860	0.00100	0.08159	0.32940	0.12960	0.37804	2.50740	0.60000	1.28879		
	B->X (RR)	0.01860	0.00100	0.08633	0.32940	0.12960	0.37435	2.50740	0.60000	1.27480		
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	0.06614	0.32940	0.06480	0.33620	2.50740	0.30000	1.20730		
	B->X (RR)	0.01860	0.00100	0.07108	0.32940	0.06480	0.33681	2.50740	0.30000	1.19872		

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	0.06855	0.32940	0.12960	0.34485	2.50740	0.60000	1.17643		
sg13g2_and2_2	B->X (FF)	0.01860	0.00100	0.07371	0.32940	0.12960	0.35745	2.50740	0.60000	1.21069		
221222 2212 1	A->X (FF)	0.01860	0.00100	0.05627	0.32940	0.06480	0.30540	2.50740	0.30000	1.08986		
sg13g2_and2_1	B->X (FF)	0.01860	0.00100	0.06165	0.32940	0.06480	0.32014	2.50740	0.30000	1.12848		

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		
42.2 12.2	A	0.01860	0.00100	0.01314	0.32940	0.12960	0.01393	2.50740	0.60000	0.02579		
sg13g2_and2_2	В	0.01860	0.00100	0.01492	0.32940	0.12960	0.01532	2.50740	0.60000	0.02626		
12.2 12.1	A	0.01860	0.00100	0.00817	0.32940	0.06480	0.00912	2.50740	0.30000	0.02204		
sg13g2_and2_1	В	0.01860	0.00100	0.00992	0.32940	0.06480	0.01039	2.50740	0.30000	0.02218		

Internal switching power(pJ) to X falling:

Cell Name Input	T4		Power(pJ)										
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
aa12a2 amd2 2	A	0.01860	0.00100	0.01181	0.32940	0.12960	0.01265	2.50740	0.60000	0.02505			
sg13g2_and2_2	В	0.01860	0.00100	0.01204	0.32940	0.12960	0.01302	2.50740	0.60000	0.02590			
aa12a2 aud2 1	A	0.01860	0.00100	0.00711	0.32940	0.06480	0.00808	2.50740	0.30000	0.02129			
sg13g2_and2_1	В	0.01860	0.00100	0.00734	0.32940	0.06480	0.00835	2.50740	0.30000	0.02145			

AND3x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00252	0.00250	0.00251	0.60000
sg13g2_and3_1	0.00250	0.00249	0.00251	0.30000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_and3_2	1583.02000	1700.65000	2131.77000					
sg13g2_and3_1	822.26200	1009.27000	1926.20000					

Delay Information Delay(ns) to X rising:

Call Name Timin		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	0.10991	0.32940	0.12960	0.42362	2.50740	0.60000	1.38320	
sg13g2_and3_2	B->X (RR)	0.01860	0.00100	0.11917	0.32940	0.12960	0.42497	2.50740	0.60000	1.37406	
	C->X (RR)	0.01860	0.00100	0.12345	0.32940	0.12960	0.41687	2.50740	0.60000	1.33221	
	A->X (RR)	0.01860	0.00100	0.08838	0.32940	0.06480	0.37319	2.50740	0.30000	1.28575	
sg13g2_and3_1	B->X (RR)	0.01860	0.00100	0.09773	0.32940	0.06480	0.37783	2.50740	0.30000	1.28916	
	C->X (RR)	0.01860	0.00100	0.10209	0.32940	0.06480	0.37333	2.50740	0.30000	1.25566	

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		
	A->X (FF)	0.01860	0.00100	0.07206	0.32940	0.12960	0.35253	2.50740	0.60000	1.18138		
sg13g2_and3_2	B->X (FF)	0.01860	0.00100	0.07763	0.32940	0.12960	0.36542	2.50740	0.60000	1.21397		
	C->X (FF)	0.01860	0.00100	0.08159	0.32940	0.12960	0.37486	2.50740	0.60000	1.24601		
	A->X (FF)	0.01860	0.00100	0.06031	0.32940	0.06480	0.31426	2.50740	0.30000	1.09256		
sg13g2_and3_1	B->X (FF)	0.01860	0.00100	0.06600	0.32940	0.06480	0.32894	2.50740	0.30000	1.13120		
	C->X (FF)	0.01860	0.00100	0.06974	0.32940	0.06480	0.33991	2.50740	0.30000	1.16511		

Power Information

Internal switching power(pJ) to X rising:

CHN	T .		Power(pJ)											
Cell Name Inp	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
	A	0.01860	0.00100	0.01484	0.32940	0.12960	0.01499	2.50740	0.60000	0.02585				
sg13g2_and3_2	В	0.01860	0.00100	0.01655	0.32940	0.12960	0.01633	2.50740	0.60000	0.02598				
	С	0.01860	0.00100	0.01814	0.32940	0.12960	0.01789	2.50740	0.60000	0.02721				
	A	0.01860	0.00100	0.00947	0.32940	0.06480	0.01008	2.50740	0.30000	0.02180				
sg13g2_and3_1	В	0.01860	0.00100	0.01114	0.32940	0.06480	0.01134	2.50740	0.30000	0.02232				
	С	0.01860	0.00100	0.01273	0.32940	0.06480	0.01280	2.50740	0.30000	0.02354				

Internal switching power(pJ) to 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	0.01196	0.32940	0.12960	0.01268	2.50740	0.60000	0.02427				
sg13g2_and3_2	В	0.01860	0.00100	0.01231	0.32940	0.12960	0.01312	2.50740	0.60000	0.02497				
	C	0.01860	0.00100	0.01252	0.32940	0.12960	0.01331	2.50740	0.60000	0.02568				
	A	0.01860	0.00100	0.00728	0.32940	0.06480	0.00803	2.50740	0.30000	0.02030				
sg13g2_and3_1	В	0.01860	0.00100	0.00761	0.32940	0.06480	0.00831	2.50740	0.30000	0.02053				
	C	0.01860	0.00100	0.00784	0.32940	0.06480	0.00855	2.50740	0.30000	0.02094				

AND4x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00234	0.00247	0.00247	0.00248	0.60000
sg13g2_and4_1	0.00234	0.00247	0.00247	0.00248	0.30000

Cell Name	Leakage(pW)						
	Min.	Avg	Max.				
sg13g2_and4_2	1585.14000	1696.02000	2705.26000				
sg13g2_and4_1	824.37700	969.96000	2499.71000				

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	0.13845	0.32940	0.12960	0.46624	2.50740	0.60000	1.46007
	B->X (RR)	0.01860	0.00100	0.15203	0.32940	0.12960	0.47231	2.50740	0.60000	1.45934
	C->X (RR)	0.01860	0.00100	0.16052	0.32940	0.12960	0.46944	2.50740	0.60000	1.42550
	D->X (RR)	0.01860	0.00100	0.16488	0.32940	0.12960	0.46531	2.50740	0.60000	1.37981
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	0.11081	0.32940	0.06480	0.40840	2.50740	0.30000	1.35721
	B->X (RR)	0.01860	0.00100	0.12477	0.32940	0.06480	0.41708	2.50740	0.30000	1.36693
	C->X (RR)	0.01860	0.00100	0.13317	0.32940	0.06480	0.41720	2.50740	0.30000	1.34014
	D->X (RR)	0.01860	0.00100	0.13759	0.32940	0.06480	0.41525	2.50740	0.30000	1.30379

Delay(ns) to X falling:

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_2	A->X (FF)	0.01860	0.00100	0.07478	0.32940	0.12960	0.35764	2.50740	0.60000	1.17683
	B->X (FF)	0.01860	0.00100	0.08058	0.32940	0.12960	0.36988	2.50740	0.60000	1.21013
	C->X (FF)	0.01860	0.00100	0.08493	0.32940	0.12960	0.37938	2.50740	0.60000	1.23917
	D->X (FF)	0.01860	0.00100	0.08797	0.32940	0.12960	0.38766	2.50740	0.60000	1.26885
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	0.06361	0.32940	0.06480	0.31968	2.50740	0.30000	1.08790
	B->X (FF)	0.01860	0.00100	0.06953	0.32940	0.06480	0.33398	2.50740	0.30000	1.12590
	C->X (FF)	0.01860	0.00100	0.07377	0.32940	0.06480	0.34505	2.50740	0.30000	1.15900
	D->X (FF)	0.01860	0.00100	0.07645	0.32940	0.06480	0.35376	2.50740	0.30000	1.19210

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	0.01626	0.32940	0.12960	0.01583	2.50740	0.60000	0.02582
sg13g2_and4_2	В	0.01860	0.00100	0.01810	0.32940	0.12960	0.01727	2.50740	0.60000	0.02613
	C	0.01860	0.00100	0.01973	0.32940	0.12960	0.01878	2.50740	0.60000	0.02761
	D	0.01860	0.00100	0.02130	0.32940	0.12960	0.02030	2.50740	0.60000	0.02874
	A	0.01860	0.00100	0.01032	0.32940	0.06480	0.01085	2.50740	0.30000	0.02165
12-214 1	В	0.01860	0.00100	0.01218	0.32940	0.06480	0.01226	2.50740	0.30000	0.02231
sg13g2_and4_1	C	0.01860	0.00100	0.01379	0.32940	0.06480	0.01370	2.50740	0.30000	0.02343
	D	0.01860	0.00100	0.01537	0.32940	0.06480	0.01524	2.50740	0.30000	0.02468

Internal switching power(pJ) to \boldsymbol{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	0.01245	0.32940	0.12960	0.01316	2.50740	0.60000	0.02416
sg13g2_and4_2	В	0.01860	0.00100	0.01268	0.32940	0.12960	0.01342	2.50740	0.60000	0.02466
	C	0.01860	0.00100	0.01308	0.32940	0.12960	0.01367	2.50740	0.60000	0.02451
	D	0.01860	0.00100	0.01332	0.32940	0.12960	0.01396	2.50740	0.60000	0.02572
	A	0.01860	0.00100	0.00773	0.32940	0.06480	0.00835	2.50740	0.30000	0.01988
aa12a2 amJ4 1	В	0.01860	0.00100	0.00794	0.32940	0.06480	0.00849	2.50740	0.30000	0.01995
sg13g2_and4_1 -	C	0.01860	0.00100	0.00828	0.32940	0.06480	0.00880	2.50740	0.30000	0.02031
	D	0.01860	0.00100	0.00855	0.32940	0.06480	0.00906	2.50740	0.30000	0.02111

AO21x



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

Truth Table

II 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	0.00286	0.00288	0.00272	0.60000
sg13g2_a21o_1	0.00269	0.00279	0.00260	0.30000

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_a21o_2	879.80300	1473.24000	1953.95000					
sg13g2_a21o_1	661.74800	1032.39000	1627.97000					

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
	A1->X (RR)	0.01860	0.00100	0.08683	0.32940	0.12960	0.38606	2.50740	0.60000	1.29117
sg13g2_a21o_2	A2->X (RR)	0.01860	0.00100	0.09082	0.32940	0.12960	0.38072	2.50740	0.60000	1.27692
	B1->X (RR)	0.01860	0.00100	0.05749	0.32940	0.12960	0.34193	2.50740	0.60000	1.19234
	A1->X (RR)	0.01860	0.00100	0.08180	0.32940	0.06480	0.36748	2.50740	0.30000	1.27355
sg13g2_a21o_1	A2->X (RR)	0.01860	0.00100	0.08595	0.32940	0.06480	0.36413	2.50740	0.30000	1.26170
	B1->X (RR)	0.01860	0.00100	0.05433	0.32940	0.06480	0.32488	2.50740	0.30000	1.17335

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			
	A1->X (FF)	0.01860	0.00100	0.11398	0.32940	0.12960	0.38815	2.50740	0.60000	1.23854			
sg13g2_a21o_2	A2->X (FF)	0.01860	0.00100	0.12388	0.32940	0.12960	0.40419	2.50740	0.60000	1.27285			
	B1->X (FF)	0.01860	0.00100	0.11377	0.32940	0.12960	0.41179	2.50740	0.60000	1.33386			
	A1->X (FF)	0.01860	0.00100	0.09113	0.32940	0.06480	0.34124	2.50740	0.30000	1.13169			
sg13g2_a21o_1	A2->X (FF)	0.01860	0.00100	0.10002	0.32940	0.06480	0.35671	2.50740	0.30000	1.16518			
	B1->X (FF)	0.01860	0.00100	0.08932	0.32940	0.06480	0.35730	2.50740	0.30000	1.20949			

Delay(ns) to X rising (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 (RR)	!B1	0.01860	0.00100	0.08683	0.32940	0.12960	0.38606	2.50740	0.60000	1.29117
sg13g2_a21o_2	A2->X (RR)	!B1	0.01860	0.00100	0.09082	0.32940	0.12960	0.38072	2.50740	0.60000	1.27692
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	0.05749	0.32940	0.12960	0.34193	2.50740	0.60000	1.19234
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	0.05512	0.32940	0.12960	0.33182	2.50740	0.60000	1.15778
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	0.05490	0.32940	0.12960	0.33158	2.50740	0.60000	1.17301
	A1->X (RR)	!B1	0.01860	0.00100	0.08180	0.32940	0.06480	0.36748	2.50740	0.30000	1.27355
	A2->X (RR)	!B1	0.01860	0.00100	0.08595	0.32940	0.06480	0.36413	2.50740	0.30000	1.26170
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	0.05433	0.32940	0.06480	0.32488	2.50740	0.30000	1.17335
_	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	0.05115	0.32940	0.06480	0.31236	2.50740	0.30000	1.13595
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	0.05087	0.32940	0.06480	0.31236	2.50740	0.30000	1.15111

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	0.11398	0.32940	0.12960	0.38815	2.50740	0.60000	1.23854
sg13g2_a21o_2	A2->X (FF)	!B1	0.01860	0.00100	0.12388	0.32940	0.12960	0.40419	2.50740	0.60000	1.27285
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	0.11377	0.32940	0.12960	0.41179	2.50740	0.60000	1.33386
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	0.10152	0.32940	0.12960	0.39292	2.50740	0.60000	1.29740
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	0.08194	0.32940	0.12960	0.36303	2.50740	0.60000	1.23602
	A1->X (FF)	!B1	0.01860	0.00100	0.09113	0.32940	0.06480	0.34124	2.50740	0.30000	1.13169
	A2->X (FF)	!B1	0.01860	0.00100	0.10002	0.32940	0.06480	0.35671	2.50740	0.30000	1.16518
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	0.08932	0.32940	0.06480	0.35730	2.50740	0.30000	1.20949
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	0.07868	0.32940	0.06480	0.33821	2.50740	0.30000	1.17205
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	0.06544	0.32940	0.06480	0.31712	2.50740	0.30000	1.11972

Power Information

Internal switching power(pJ) to X rising:

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	0.01440	0.32940	0.12960	0.01511	2.50740	0.60000	0.02808	
sg13g2_a21o_2	A2	0.01860	0.00100	0.01635	0.32940	0.12960	0.01667	2.50740	0.60000	0.02879	
	B1	0.01860	0.00100	0.01250	0.32940	0.12960	0.01384	2.50740	0.60000	0.02877	
	A1	0.01860	0.00100	0.00931	0.32940	0.06480	0.00992	2.50740	0.30000	0.02244	
sg13g2_a21o_1	A2	0.01860	0.00100	0.01105	0.32940	0.06480	0.01136	2.50740	0.30000	0.02291	
	B1	0.01860	0.00100	0.00768	0.32940	0.06480	0.00872	2.50740	0.30000	0.02322	

Internal switching power(pJ) to 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	
	A1	0.01860	0.00100	0.01569	0.32940	0.12960	0.01554	2.50740	0.60000	0.02847	
sg13g2_a21o_2	A2	0.01860	0.00100	0.01593	0.32940	0.12960	0.01585	2.50740	0.60000	0.02878	
	B1	0.01860	0.00100	0.01373	0.32940	0.12960	0.01422	2.50740	0.60000	0.02856	
	A1	0.01860	0.00100	0.01041	0.32940	0.06480	0.01059	2.50740	0.30000	0.02309	
sg13g2_a21o_1	A2	0.01860	0.00100	0.01043	0.32940	0.06480	0.01075	2.50740	0.30000	0.02288	
	B1	0.01860	0.00100	0.00820	0.32940	0.06480	0.00915	2.50740	0.30000	0.02287	

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

G H N	T .	***					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	0.01440	0.32940	0.12960	0.01511	2.50740	0.60000	0.02808
	A2	!B1	0.01860	0.00100	0.01635	0.32940	0.12960	0.01667	2.50740	0.60000	0.02879
	B1	(A1 * !A2)	0.01860	0.00100	0.01461	0.32940	0.12960	0.01584	2.50740	0.60000	0.03056
sg13g2_a21o_2	B1	(!A1 * A2)	0.01860	0.00100	0.01259	0.32940	0.12960	0.01390	2.50740	0.60000	0.02760
	B1	(!A1 * !A2)	0.01860	0.00100	0.01250	0.32940	0.12960	0.01384	2.50740	0.60000	0.02877
	A1	!B1	0.01860	0.00100	0.00931	0.32940	0.06480	0.00992	2.50740	0.30000	0.02244
	A2	!B1	0.01860	0.00100	0.01105	0.32940	0.06480	0.01136	2.50740	0.30000	0.02291
	B1	(A1 * !A2)	0.01860	0.00100	0.00950	0.32940	0.06480	0.01048	2.50740	0.30000	0.02441
sg13g2_a21o_1	B1	(!A1 * A2)	0.01860	0.00100	0.00776	0.32940	0.06480	0.00868	2.50740	0.30000	0.02233
	B1	(!A1 * !A2)	0.01860	0.00100	0.00768	0.32940	0.06480	0.00872	2.50740	0.30000	0.02322

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

CHN	T .	***					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	0.01569	0.32940	0.12960	0.01554	2.50740	0.60000	0.02847
	A2	!B1	0.01860	0.00100	0.01593	0.32940	0.12960	0.01585	2.50740	0.60000	0.02878
sg13g2_a21o_2	B1	(A1 * !A2)	0.01860	0.00100	0.01373	0.32940	0.12960	0.01422	2.50740	0.60000	0.02856
	B1	(!A1 * A2)	0.01860	0.00100	0.01327	0.32940	0.12960	0.01400	2.50740	0.60000	0.02800
	B1	(!A1 * !A2)	0.01860	0.00100	0.01293	0.32940	0.12960	0.01400	2.50740	0.60000	0.02958
	A1	!B1	0.01860	0.00100	0.01041	0.32940	0.06480	0.01059	2.50740	0.30000	0.02309
	A2	!B1	0.01860	0.00100	0.01043	0.32940	0.06480	0.01075	2.50740	0.30000	0.02288
	B1	(A1 * !A2)	0.01860	0.00100	0.00820	0.32940	0.06480	0.00915	2.50740	0.30000	0.02287
sg13g2_a21o_1	B1	(!A1 * A2)	0.01860	0.00100	0.00797	0.32940	0.06480	0.00899	2.50740	0.30000	0.02269
	B1	(!A1 * !A2)	0.01860	0.00100	0.00797	0.32940	0.06480	0.00918	2.50740	0.30000	0.02388

BTLx



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

Truth Table

I	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	0.00570	0.01657	2.40000
sg13g2_ebufn_4	0.00292	0.00994	1.20000
sg13g2_ebufn_2	0.00258	0.00612	0.60000

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_ebufn_8	2462.43000	3998.34000	7045.57000					
sg13g2_ebufn_4	1611.89000	2240.96000	3625.90000					
sg13g2_ebufn_2	1171.81000	1486.28000	1947.78000					

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	0.01969	0.07423	0.32940	0.53709	0.57379	2.50740	2.41869	2.19726
sg13g2_ebufn_8	TE_B->Z (RR)	0.01860	0.01969	0.07383	0.32940	0.53709	0.16800	2.50740	2.41869	0.35322
	TE_B->Z (FR)	0.01860	0.01969	0.03468	0.32940	0.53709	0.52890	2.50740	2.41869	2.60662
	A->Z (RR)	0.01860	0.01049	0.07648	0.32940	0.26869	0.57503	2.50740	1.20949	2.20226
sg13g2_ebufn_4	TE_B->Z (RR)	0.01860	0.01049	0.05673	0.32940	0.26869	0.12466	2.50740	1.20949	0.24850
	TE_B->Z (FR)	0.01860	0.01049	0.03476	0.32940	0.26869	0.52731	2.50740	1.20949	2.60190
	A->Z (RR)	0.01860	0.00583	0.06453	0.32940	0.13443	0.53838	2.50740	0.60483	2.12061
sg13g2_ebufn_2	TE_B->Z (RR)	0.01860	0.00583	0.04854	0.32940	0.13443	0.10353	2.50740	0.60483	0.20350
	TE_B->Z (FR)	0.01860	0.00583	0.03516	0.32940	0.13443	0.52365	2.50740	0.60483	2.58917

Delay(ns) to Z 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->Z (FF)	0.01860	0.02961	0.08243	0.32940	0.54701	0.48555	2.50740	2.42861	1.76067
sg13g2_ebufn_8	TE_B->Z (RF)	0.01860	0.02961	0.03133	0.32940	0.54701	0.05702	2.50740	2.42861	0.25805
	TE_B->Z (FF)	0.01860	0.02961	0.09500	0.32940	0.54701	0.62971	2.50740	2.42861	2.37369
	A->Z (FF)	0.01860	0.01556	0.08484	0.32940	0.27376	0.48751	2.50740	1.21456	1.76403
sg13g2_ebufn_4	TE_B->Z (RF)	0.01860	0.01556	0.03039	0.32940	0.27376	0.05549	2.50740	1.21456	0.25535
	TE_B->Z (FF)	0.01860	0.01556	0.07243	0.32940	0.27376	0.57457	2.50740	1.21456	2.24121
	A->Z (FF)	0.01860	0.00845	0.06546	0.32940	0.13705	0.44159	2.50740	0.60745	1.65674
sg13g2_ebufn_2	TE_B->Z (RF)	0.01860	0.00845	0.02935	0.32940	0.13705	0.05478	2.50740	0.60745	0.25362
	TE_B->Z (FF)	0.01860	0.00845	0.06136	0.32940	0.13705	0.53788	2.50740	0.60745	2.15567

Power Information

Internal switching power(pJ) to Z rising:

Cell Name Input	T4	Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
12-2 sharfa 0	A	0.01860	0.01969	0.02279	0.32940	0.53709	0.02805	2.50740	2.41869	0.02431	
sg13g2_ebufn_8	TE_B	0.01860	0.01969	0.01286	0.32940	0.53709	0.01127	2.50740	2.41869	0.01159	
12.2.1.6.4	A	0.01860	0.01049	0.01149	0.32940	0.26869	0.01408	2.50740	1.20949	0.01050	
sg13g2_ebufn_4	TE_B	0.01860	0.01049	0.00630	0.32940	0.26869	0.00568	2.50740	1.20949	0.00562	
12.2.1.6.2	A	0.01860	0.00583	0.00619	0.32940	0.13443	0.00698	2.50740	0.60483	0.00507	
sg13g2_ebufn_2	TE_B	0.01860	0.00583	0.00325	0.32940	0.13443	0.00286	2.50740	0.60483	0.00280	

Internal switching power(pJ) to Z falling:

Cell Name	T4		Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
aa12a2 ahufu 0	A	0.01860	0.02961	0.04023	0.32940	0.54701	0.04383	2.50740	2.42861	0.03568		
sg13g2_ebufn_8 TH	TE_B	0.01860	0.02961	0.01373	0.32940	0.54701	0.11404	2.50740	2.42861	0.48019		
12-2 sharfa 4	A	0.01860	0.01556	0.02009	0.32940	0.27376	0.02188	2.50740	1.21456	0.01880		
sg13g2_ebufn_4	TE_B	0.01860	0.01556	0.00708	0.32940	0.27376	0.05629	2.50740	1.21456	0.24089		
221222 shufu 2	A	0.01860	0.00845	0.00992	0.32940	0.13705	0.01072	2.50740	0.60745	0.00937		
sg13g2_ebufn_2	TE_B	0.01860	0.00845	0.00372	0.32940	0.13705	0.02812	2.50740	0.60745	0.12036		

Passive power(pJ) for A rising:

Cell Name	Power(pJ)										
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_ebufn_8	0.01860	0.03537	0.32940	0.03736	2.50740	0.07381					
sg13g2_ebufn_4	0.01860	0.01804	0.32940	0.01898	2.50740	0.03708					
sg13g2_ebufn_2	0.01860	0.00977	0.32940	0.01081	2.50740	0.02694					

Passive power(pJ) for A falling:

Cell Name	Power(pJ)										
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_ebufn_8	0.01860	0.01236	0.32940	0.01495	2.50740	0.05222					
sg13g2_ebufn_4	0.01860	0.00660	0.32940	0.00786	2.50740	0.02637					
sg13g2_ebufn_2	0.01860	0.00414	0.32940	0.00544	2.50740	0.02196					

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	-0.00451	0.32940	-0.00537	2.50740	0.01041					
sg13g2_ebufn_4	0.01860	-0.00086	0.32940	-0.00083	2.50740	0.01674					
sg13g2_ebufn_2	0.01860	0.00042	0.32940	0.00097	2.50740	0.01693					

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	0.05828	0.32940	0.05905	2.50740	0.07630				
sg13g2_ebufn_4	0.01860	0.03042	0.32940	0.03148	2.50740	0.04995				
sg13g2_ebufn_2	0.01860	0.01576	0.32940	0.01713	2.50740	0.03354				





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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_buf_16	0.01684	4.80000
sg13g2_buf_8	0.00846	2.40000
sg13g2_buf_4	0.00365	1.20000
sg13g2_buf_1	0.00224	0.30000
sg13g2_buf_2	0.00259	0.60000

Leakage Information

Call Name		Leakage(pW)								
Cell Name	Min.	Avg	Max.							
sg13g2_buf_16	7855.69000	10631.10000	13406.50000							
sg13g2_buf_8	3927.85000	5315.64000	6703.42000							
sg13g2_buf_4	1952.91000	2605.01000	3257.11000							
sg13g2_buf_1	775.60500	837.68500	899.76500							
sg13g2_buf_2	1090.17000	1391.03000	1691.89000							

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	0.05715	0.32940	1.03680	0.34630	2.50740	4.80000	1.23569
sg13g2_buf_8	A->X (RR)	0.01860	0.00100	0.05727	0.32940	0.51840	0.34546	2.50740	2.40000	1.23487
sg13g2_buf_4	A->X (RR)	0.01860	0.00100	0.07362	0.32940	0.25920	0.38209	2.50740	1.20000	1.35540
sg13g2_buf_1	A->X (RR)	0.01860	0.00100	0.05096	0.32940	0.06480	0.31597	2.50740	0.30000	1.17418
sg13g2_buf_2	A->X (RR)	0.01860	0.00100	0.05759	0.32940	0.12960	0.34183	2.50740	0.60000	1.23254

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	0.06199	0.32940	1.03680	0.33598	2.50740	4.80000	1.16115
sg13g2_buf_8	A->X (FF)	0.01860	0.00100	0.06195	0.32940	0.51840	0.33579	2.50740	2.40000	1.16356
sg13g2_buf_4	A->X (FF)	0.01860	0.00100	0.06110	0.32940	0.25920	0.33090	2.50740	1.20000	1.10527
sg13g2_buf_1	A->X (FF)	0.01860	0.00100	0.05257	0.32940	0.06480	0.29689	2.50740	0.30000	1.06842
sg13g2_buf_2	A->X (FF)	0.01860	0.00100	0.06018	0.32940	0.12960	0.32501	2.50740	0.60000	1.12973

Power Information

Internal switching power(pJ) to X rising:

Call Name	I4		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	0.09166	0.32940	1.03680	0.10188	2.50740	4.80000	0.20173	
sg13g2_buf_8	A	0.01860	0.00100	0.04614	0.32940	0.51840	0.05139	2.50740	2.40000	0.10136	
sg13g2_buf_4	A	0.01860	0.00100	0.02282	0.32940	0.25920	0.02424	2.50740	1.20000	0.04403	
sg13g2_buf_1	A	0.01860	0.00100	0.00714	0.32940	0.06480	0.00816	2.50740	0.30000	0.02063	
sg13g2_buf_2	A	0.01860	0.00100	0.01211	0.32940	0.12960	0.01352	2.50740	0.60000	0.02783	

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	0.09023	0.32940	1.03680	0.09879	2.50740	4.80000	0.20469	
sg13g2_buf_8	A	0.01860	0.00100	0.04540	0.32940	0.51840	0.04987	2.50740	2.40000	0.10313	
sg13g2_buf_4	A	0.01860	0.00100	0.02284	0.32940	0.25920	0.02467	2.50740	1.20000	0.04592	
sg13g2_buf_1	A	0.01860	0.00100	0.00704	0.32940	0.06480	0.00816	2.50740	0.30000	0.02114	
sg13g2_buf_2	A	0.01860	0.00100	0.01192	0.32940	0.12960	0.01324	2.50740	0.60000	0.02854	





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

Footprint

Cell Name	Area
sg13g2_decap_8	12.70080
sg13g2_decap_4	7.25760

Pin Capacitance Information Leakage Information

Cell Name		Leakage(pW)							
Cen Name	Min.	Avg	Max.						
sg13g2_decap_8	850.82400	850.82400	850.82400						
sg13g2_decap_4	425.40000	425.40000	425.40000						

DFFRRx



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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_2	54.43200
sg13g2_dfrbp_1	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	0.00153	0.00508	0.00278	0.60000	0.60000	
sg13g2_dfrbp_1	0.00153	0.00503	0.00277	0.30000	0.30000	

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dfrbp_2	4377.32000	5083.62000	5902.03000					
sg13g2_dfrbp_1	3446.57000	4168.37000	5017.73000					

Delay Information Delay(ns) to Q rising:

Cell Name	Timing		Delay(ns)									
Arc(Dir	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	0.23935	0.32940	0.12960	0.50487	2.50740	0.60000	1.38340		
sg13g2_dfrbp_1	CLK->Q (RR)	0.01860	0.00100	0.18735	0.32940	0.06480	0.45831	2.50740	0.30000	1.33020		

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	
sg13g2_dfrbp_2	CLK->Q (RF)	0.01860	0.00100	0.20801	0.32940	0.12960	0.45823	2.50740	0.60000	1.21657	
	RESET_B->Q (FF)	0.01860	0.00100	0.27989	0.32940	0.12960	0.56949	2.50740	0.60000	1.51108	
	CLK->Q (RF)	0.01860	0.00100	0.17227	0.32940	0.06480	0.42136	2.50740	0.30000	1.17500	
sg13g2_dfrbp_1	RESET_B->Q (FF)	0.01860	0.00100	0.24346	0.32940	0.06480	0.53224	2.50740	0.30000	1.46890	

Delay(ns) to Q_N rising:

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_dfrbp_2	CLK->Q_N (RR)	0.01860	0.00100	0.13954	0.32940	0.12960	0.44504	2.50740	0.60000	1.29520		
	RESET_B->Q_N (FR)	0.01860	0.00100	0.21250	0.32940	0.12960	0.55465	2.50740	0.60000	1.58808		
sg13g2_dfrbp_1	CLK->Q_N (RR)	0.01860	0.00100	0.13520	0.32940	0.06480	0.43064	2.50740	0.30000	1.27829		
	RESET_B->Q_N (FR)	0.01860	0.00100	0.20653	0.32940	0.06480	0.53957	2.50740	0.30000	1.57097		

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_dfrbp_2	CLK->Q_N (RF)	0.01860	0.00100	0.15495	0.32940	0.12960	0.46802	2.50740	0.60000	1.25630		
sg13g2_dfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	0.14451	0.32940	0.06480	0.44332	2.50740	0.30000	1.22935		

Constraint Information

Constraints(ns) for D 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	
12-2 df-h 2	hold	CLK (R)	0.01860	0.01860	-0.05868	1.26300	1.26300	-0.18619	2.50740	2.50740	-0.24203	
sg13g2_dfrbp_2	setup	CLK (R)	0.01860	0.01860	0.10759	1.26300	1.26300	0.22936	2.50740	2.50740	0.28925	
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.05868	1.26300	1.26300	-0.18619	2.50740	2.50740	-0.24498	
sg13g2_dfrbp_1	setup	CLK (R)	0.01860	0.01860	0.10759	1.26300	1.26300	0.22666	2.50740	2.50740	0.28630	

Constraints(ns) for D falling:

	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	hold	CLK (R)	0.01860	0.01860	-0.03668	1.26300	1.26300	-0.17809	2.50740	2.50740	-0.26859	
sg13g2_dfrbp_2	setup	CLK (R)	0.01860	0.01860	0.10759	1.26300	1.26300	0.25095	2.50740	2.50740	0.34828	
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.03668	1.26300	1.26300	-0.18079	2.50740	2.50740	-0.27154	
sg13g2_dfrbp_1	setup	CLK (R)	0.01860	0.01860	0.10514	1.26300	1.26300	0.24825	2.50740	2.50740	0.34533	

Constraints(ns) for RESET_B rising:

	Timing Ref Check Pin(trans)	D. C	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		
12.2 161. 2	recovery	CLK (R)	0.01860	0.01860	0.11492	1.26300	1.26300	0.25365	2.50740	2.50740	0.36304		
sg13g2_dfrbp_2	removal	CLK (R)	0.01860	0.01860	-0.10270	1.26300	1.26300	-0.24555	2.50740	2.50740	-0.35419		
12.2 16.1 . 1	recovery	CLK (R)	0.01860	0.01860	0.11492	1.26300	1.26300	0.25365	2.50740	2.50740	0.36304		
sg13g2_dfrbp_1	removal	CLK (R)	0.01860	0.01860	-0.10025	1.26300	1.26300	-0.24555	2.50740	2.50740	-0.35419		

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_dfrbp_2	min_pulse_width	RESET_B	0.01860	0.00000	0.11185	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	
sg13g2_dfrbp_1	min_pulse_width	RESET_B	0.01860	0.00000	0.11185	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	0.13428	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_dfrbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.11185	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

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

Cell Name	Timing Check	Ref Pin(trans)		Constraint(ns)									
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dfrbp_2	min_pulse_width	CLK ()	0.01860	0.00000	0.12466	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_dfrbp_1	min_pulse_width	CLK ()	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:

Cell Name Inpu	T4		Power(pJ)									
	input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dfrbp_2	CLK	0.01860	0.00100	0.04842	0.32940	0.12960	0.16643	2.50740	0.60000	0.61509		
sg13g2_dfrbp_1	CLK	0.01860	0.00100	0.03831	0.32940	0.06480	0.09805	2.50740	0.30000	0.33261		

Internal switching power(pJ) to Q falling:

Cell Name	T4		Power(pJ)									
Cen Manie	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	0.04804	0.32940	0.12960	0.16733	2.50740	0.60000	0.61614		
sg13g2_dfrbp_2	RESET_B	0.01860	0.00100	0.03658	0.32940	0.12960	0.15491	2.50740	0.60000	0.59254		
12-2 Je.b. 1	CLK	0.01860	0.00100	0.03886	0.32940	0.06480	0.09895	2.50740	0.30000	0.33328		
sg13g2_dfrbp_1	RESET_B	0.01860	0.00100	0.02728	0.32940	0.06480	0.08639	2.50740	0.30000	0.30987		

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 16 1 2	CLK	0.01860	0.00100	0.04808	0.32940	0.12960	0.16781	2.50740	0.60000	0.61647		
sg13g2_dfrbp_2	RESET_B	0.01860	0.00100	0.03661	0.32940	0.12960	0.15551	2.50740	0.60000	0.59322		
12.2 1611	CLK	0.01860	0.00100	0.03887	0.32940	0.06480	0.09921	2.50740	0.30000	0.33362		
sg13g2_dfrbp_1	RESET_B	0.01860	0.00100	0.02728	0.32940	0.06480	0.08677	2.50740	0.30000	0.31010		

Internal switching power(pJ) to Q_N falling:

Cell Name Inp	T4		Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dfrbp_2	CLK	0.01860	0.00100	0.04847	0.32940	0.12960	0.16599	2.50740	0.60000	0.61487		
sg13g2_dfrbp_1	CLK	0.01860	0.00100	0.03835	0.32940	0.06480	0.09777	2.50740	0.30000	0.33217		

Passive power(pJ) for D rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dfrbp_2	0.01860	0.00213	0.32940	0.00258	2.50740	0.00960				
sg13g2_dfrbp_1	0.01860	0.00212	0.32940	0.00258	2.50740	0.00960				

Passive power(pJ) for D falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dfrbp_2	0.01860	0.00158	0.32940	0.00208	2.50740	0.00936				
sg13g2_dfrbp_1	0.01860	0.00157	0.32940	0.00207	2.50740	0.00935				

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

Call Name	VVII- ove			Powe	er(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	CLK	0.01860	0.00213	0.32940	0.00258	2.50740	0.00960
sg13g2_dfrbp_2	(!CLK * RESET_B)	0.01860	0.01486	0.32940	0.01532	2.50740	0.02309
	(!CLK * !RESET_B)	0.01860	-0.00011	0.32940	-0.00011	2.50740	-0.00010
	CLK	0.01860	0.00212	0.32940	0.00258	2.50740	0.00960
sg13g2_dfrbp_1	(!CLK * RESET_B)	0.01860	0.01489	0.32940	0.01536	2.50740	0.02311
	(!CLK * !RESET_B)	0.01860	-0.00011	0.32940	-0.00011	2.50740	-0.00010

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

Call Name	W 71			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	CLK	0.01860	0.00158	0.32940	0.00208	2.50740	0.00936
sg13g2_dfrbp_2	(!CLK * RESET_B)	0.01860	0.01138	0.32940	0.01182	2.50740	0.02036
	(!CLK * !RESET_B)	0.01860	0.00012	0.32940	0.00013	2.50740	0.00013
	CLK	0.01860	0.00157	0.32940	0.00207	2.50740	0.00935
sg13g2_dfrbp_1	(!CLK * RESET_B)	0.01860	0.01135	0.32940	0.01180	2.50740	0.02035
	(!CLK * !RESET_B)	0.01860	0.00013	0.32940	0.00013	2.50740	0.00013

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	0.00436	0.32940	0.00446	2.50740	0.01079				
sg13g2_dfrbp_1	0.01860	0.00431	0.32940	0.00440	2.50740	0.01073				

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	0.01152	0.32940	0.01143	2.50740	0.02184				
sg13g2_dfrbp_1	0.01860	0.01155	0.32940	0.01145	2.50740	0.02187				

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

Call Name	W/h ore			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	0.00436	0.32940	0.00446	2.50740	0.01079
	(CLK * !D * !Q * Q_N)	0.01860	0.00140	0.32940	0.00139	2.50740	0.00140
	(!CLK * D * !Q * Q_N)	0.01860	0.01751	0.32940	0.01764	2.50740	0.02696
	(!CLK * !D * !Q * Q_N)	0.01860	0.00137	0.32940	0.00135	2.50740	0.00136
	(CLK * D * !Q * Q_N)	0.01860	0.00431	0.32940	0.00440	2.50740	0.01073
callad dfulm 1	(CLK * !D * !Q * Q_N)	0.01860	0.00135	0.32940	0.00135	2.50740	0.00135
sg13g2_dfrbp_1	(!CLK * D * !Q * Q_N)	0.01860	0.01749	0.32940	0.01762	2.50740	0.02695
	(!CLK * !D * !Q * Q_N)	0.01860	0.00131	0.32940	0.00130	2.50740	0.00131

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	0.04757	0.32940	0.04812	2.50740	0.06860
sg13g2_dfrbp_2	(CLK * !D * !Q * Q_N)	0.01860	-0.00085	0.32940	-0.00109	2.50740	-0.00117
	(!CLK * D * !Q * Q_N)	0.01860	0.01152	0.32940	0.01143	2.50740	0.02184
	(!CLK * !D * !Q * Q_N)	0.01860	-0.00119	0.32940	-0.00135	2.50740	-0.00136
	(CLK * D * !Q * Q_N)	0.01860	0.03808	0.32940	0.03859	2.50740	0.05885
12-2 Jf.l. 1	(CLK * !D * !Q * Q_N)	0.01860	-0.00081	0.32940	-0.00104	2.50740	-0.00113
sg13g2_dfrbp_1	(!CLK * D * !Q * Q_N)	0.01860	0.01155	0.32940	0.01145	2.50740	0.02187
	(!CLK * !D * !Q * Q_N)	0.01860	-0.00114	0.32940	-0.00130	2.50740	-0.00131

Passive power(pJ) for CLK rising :

Cell Name		Power(pJ)							
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dfrbp_2	0.01860	0.01384	0.32940	0.01485	2.50740	0.03436			
sg13g2_dfrbp_1	0.01860	0.01378	0.32940	0.01479	2.50740	0.03431			

Passive power(pJ) for CLK falling:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dfrbp_2	0.01860	0.02605	0.32940	0.02712	2.50740	0.04793			
sg13g2_dfrbp_1	0.01860	0.02611	0.32940	0.02718	2.50740	0.04799			

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

Call Name	W/h or			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(D * RESET_B * Q * !Q_N)	0.01860	0.01384	0.32940	0.01485	2.50740	0.03436
sg13g2_dfrbp_2	(D * !RESET_B * !Q * Q_N)	0.01860	0.01446	0.32940	0.01548	2.50740	0.03496
	(!D * RESET_B * !Q * Q_N)	0.01860	0.01363	0.32940	0.01464	2.50740	0.03419
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.01428	0.32940	0.01529	2.50740	0.03476
	(D * RESET_B * Q * !Q_N)	0.01860	0.01378	0.32940	0.01479	2.50740	0.03431
201202 dfuhr 1	(D * !RESET_B * !Q * Q_N)	0.01860	0.01433	0.32940	0.01539	2.50740	0.03486
sg13g2_dfrbp_1	(!D * RESET_B * !Q * Q_N)	0.01860	0.01351	0.32940	0.01452	2.50740	0.03408
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.01415	0.32940	0.01519	2.50740	0.03465

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

C H N	***			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(D * RESET_B * Q * !Q_N)	0.01860	0.02768	0.32940	0.02876	2.50740	0.04958
	(D * RESET_B * !Q * Q_N)	0.01860	0.02605	0.32940	0.02712	2.50740	0.04793
sg13g2_dfrbp_2	(D * !RESET_B * !Q * Q_N)	0.01860	0.01352	0.32940	0.01460	2.50740	0.03475
	(!D * RESET_B * Q * !Q_N)	0.01860	0.06056	0.32940	0.04942	2.50740	0.06958
	(!D * RESET_B * !Q * Q_N)	0.01860	0.01343	0.32940	0.01451	2.50740	0.03467
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.01346	0.32940	0.01452	2.50740	0.03467
	(D * RESET_B * Q * !Q_N)	0.01860	0.02728	0.32940	0.02836	2.50740	0.04917
	(D * RESET_B * !Q * Q_N)	0.01860	0.02611	0.32940	0.02718	2.50740	0.04799
cal2a2 dfubn 1	(D * !RESET_B * !Q * Q_N)	0.01860	0.01353	0.32940	0.01464	2.50740	0.03479
sg13g2_dfrbp_1	(!D * RESET_B * Q * !Q_N)	0.01860	0.08295	0.32940	0.03953	2.50740	0.05979
	(!D * RESET_B * !Q * Q_N)	0.01860	0.01346	0.32940	0.01456	2.50740	0.03471
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.01347	0.32940	0.01457	2.50740	0.03471

DFRBPQx



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

Truth Table

	INPUT	OUTPUT	
D	RESET_B	CLK	Q
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	0.00140	0.00502	0.00275	0.60000
sg13g2_dfrbpq_1	0.00140	0.00497	0.00274	0.30000

Leakage Information

Cell Name	Leakage(pW)						
	Min.	Avg	Max.				
sg13g2_dfrbpq_2	3945.71000	4302.17000	5288.48000				
sg13g2_dfrbpq_1	3240.68000	3777.50000	4563.24000				

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_dfrbpq_2	CLK->Q (RR)	0.01860	0.00100	0.16878	0.32940	0.12960	0.45194	2.50740	0.60000	1.31723
sg13g2_dfrbpq_1	CLK->Q (RR)	0.01860	0.00100	0.15669	0.32940	0.06480	0.43363	2.50740	0.30000	1.29952

Delay(ns) to Q falling:

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 (RF)	0.01860	0.00100	0.16682	0.32940	0.12960	0.42656	2.50740	0.60000	1.17902
	RESET_B->Q (FF)	0.01860	0.00100	0.23377	0.32940	0.12960	0.53383	2.50740	0.60000	1.46909
sg13g2_dfrbpq_1	CLK->Q (RF)	0.01860	0.00100	0.15520	0.32940	0.06480	0.40686	2.50740	0.30000	1.15837
	RESET_B->Q (FF)	0.01860	0.00100	0.22331	0.32940	0.06480	0.51542	2.50740	0.30000	1.44987

Constraint Information

Constraints(ns) for D rising:

	Timing	D.C				Co	onstraint(ı	ıs)			
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
12.2 16.1 2	hold	CLK (R)	0.01860	0.01860	-0.06358	1.26300	1.26300	-0.18889	2.50740	2.50740	-0.24793
sg13g2_dfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.10759	1.26300	1.26300	0.22936	2.50740	2.50740	0.28925
	hold	CLK (R)	0.01860	0.01860	-0.06113	1.26300	1.26300	-0.18889	2.50740	2.50740	-0.24793
sg13g2_dfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.10759	1.26300	1.26300	0.22936	2.50740	2.50740	0.28630

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	-0.03912	1.26300	1.26300	-0.17809	2.50740	2.50740	-0.26859		
sg13g2_dfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.10270	1.26300	1.26300	0.24555	2.50740	2.50740	0.34533		
	hold	CLK (R)	0.01860	0.01860	-0.03668	1.26300	1.26300	-0.17809	2.50740	2.50740	-0.26859		
sg13g2_dfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.10270	1.26300	1.26300	0.24825	2.50740	2.50740	0.34533		

Constraints(ns) for RESET_B rising:

	Timing	D. f.		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		
12.2 16.1 2	recovery	CLK (R)	0.01860	0.01860	0.11492	1.26300	1.26300	0.25365	2.50740	2.50740	0.36304		
sg13g2_dfrbpq_2	removal	CLK (R)	0.01860	0.01860	-0.09781	1.26300	1.26300	-0.24285	2.50740	2.50740	-0.35123		
12-2 deskur 1	recovery	CLK (R)	0.01860	0.01860	0.11737	1.26300	1.26300	0.25365	2.50740	2.50740	0.36304		
sg13g2_dfrbpq_1	removal	CLK (R)	0.01860	0.01860	-0.10025	1.26300	1.26300	-0.24285	2.50740	2.50740	-0.35123		

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	0.10864	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_dfrbpq_1	min_pulse_width	RESET_B	0.01860	0.00000	0.10864	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Constraints(ns) for CLK rising:

Cell Name	Timing Check	Dof	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	0.09262	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	
sg13g2_dfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.09262	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

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

Cell Name	Timing Check	Dof		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	0.12787	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_dfrbpq_1	min_pulse_width	CLK ()	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		
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	0.03560	0.32940	0.12960	0.03734	2.50740	0.60000	0.05800		
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	0.03149	0.32940	0.06480	0.03289	2.50740	0.30000	0.05326		

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		
aallal dfubna l	CLK	0.01860	0.00100	0.03659	0.32940	0.12960	0.03902	2.50740	0.60000	0.05921		
sg13g2_dfrbpq_2	RESET_B	0.01860	0.00100	0.02457	0.32940	0.12960	0.02607	2.50740	0.60000	0.03565		
sal2a2 dfuhna 1	CLK	0.01860	0.00100	0.03260	0.32940	0.06480	0.03454	2.50740	0.30000	0.05458		
sg13g2_dfrbpq_1	RESET_B	0.01860	0.00100	0.02069	0.32940	0.06480	0.02166	2.50740	0.30000	0.03114		

Passive power(pJ) for D rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dfrbpq_2	0.01860	0.00213	0.32940	0.00258	2.50740	0.00960					
sg13g2_dfrbpq_1	0.01860	0.00213	0.32940	0.00258	2.50740	0.00960					

Passive power(pJ) for D falling:

Cell Name		Power(pJ)									
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dfrbpq_2	0.01860	0.00158	0.32940	0.00208	2.50740	0.00936					
sg13g2_dfrbpq_1	0.01860	0.00157	0.32940	0.00207	2.50740	0.00935					

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	0.00213	0.32940	0.00258	2.50740	0.00960
sg13g2_dfrbpq_2	(!CLK * RESET_B)	0.01860	0.01488	0.32940	0.01533	2.50740	0.02308
	(!CLK * !RESET_B)	0.01860	-0.00011	0.32940	-0.00010	2.50740	-0.00010
	CLK	0.01860	0.00213	0.32940	0.00258	2.50740	0.00960
sg13g2_dfrbpq_1	(!CLK * RESET_B)	0.01860	0.01489	0.32940	0.01536	2.50740	0.02311
	(!CLK * !RESET_B)	0.01860	-0.00011	0.32940	-0.00011	2.50740	-0.00010

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	0.00158	0.32940	0.00208	2.50740	0.00936					
sg13g2_dfrbpq_2	(!CLK * RESET_B)	0.01860	0.01137	0.32940	0.01182	2.50740	0.02035					
	(!CLK * !RESET_B)	0.01860	0.00012	0.32940	0.00013	2.50740	0.00013					
	CLK	0.01860	0.00157	0.32940	0.00207	2.50740	0.00935					
sg13g2_dfrbpq_1	(!CLK * RESET_B)	0.01860	0.01134	0.32940	0.01180	2.50740	0.02035					
	(!CLK * !RESET_B)	0.01860	0.00013	0.32940	0.00013	2.50740	0.00013					

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	0.00435	0.32940	0.00444	2.50740	0.01077
sg13g2_dfrbpq_1	0.01860	0.00431	0.32940	0.00441	2.50740	0.01073

Passive power(pJ) for RESET_B falling :

Call Name		Power(pJ)						
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dfrbpq_2	0.01860	0.01156	0.32940	0.01143	2.50740	0.02185		
sg13g2_dfrbpq_1	0.01860	0.01158	0.32940	0.01145	2.50740	0.02187		

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

Call Name	XX/In ove	Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(CLK * D * !Q)	0.01860	0.00435	0.32940	0.00444	2.50740	0.01077		
sal2a2 dfuhua 2	(CLK * !D * !Q)	0.01860	0.00140	0.32940	0.00138	2.50740	0.00139		
sg13g2_dfrbpq_2	(!CLK * D * !Q)	0.01860	0.01751	0.32940	0.01764	2.50740	0.02695		
	(!CLK * !D * !Q)	0.01860	0.00135	0.32940	0.00135	2.50740	0.00135		
	(CLK * D * !Q)	0.01860	0.00431	0.32940	0.00441	2.50740	0.01073		
sg13g2_dfrbpq_1	(CLK * !D * !Q)	0.01860	0.00135	0.32940	0.00134	2.50740	0.00135		
	(!CLK * D * !Q)	0.01860	0.01749	0.32940	0.01762	2.50740	0.02695		
	(!CLK * !D * !Q)	0.01860	0.00132	0.32940	0.00130	2.50740	0.00131		

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	0.03631	0.32940	0.03682	2.50740	0.05684			
sollan dfuhna l	(CLK * !D * !Q)	0.01860	-0.00085	0.32940	-0.00108	2.50740	-0.00117			
sg13g2_dfrbpq_2	(!CLK * D * !Q)	0.01860	0.01156	0.32940	0.01143	2.50740	0.02185			
	(!CLK * !D * !Q)	0.01860	-0.00118	0.32940	-0.00135	2.50740	-0.00135			
	(CLK * D * !Q)	0.01860	0.03239	0.32940	0.03283	2.50740	0.05293			
201202 dfuhna 1	(CLK * !D * !Q)	0.01860	-0.00081	0.32940	-0.00104	2.50740	-0.00113			
sg13g2_dfrbpq_1	(!CLK * D * !Q)	0.01860	0.01158	0.32940	0.01145	2.50740	0.02187			
	(!CLK * !D * !Q)	0.01860	-0.00114	0.32940	-0.00130	2.50740	-0.00131			

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	0.01426	0.32940	0.01534	2.50740	0.03477
sg13g2_dfrbpq_1	0.01860	0.01376	0.32940	0.01479	2.50740	0.03432

Passive power(pJ) for CLK falling:

Call Name		Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dfrbpq_2	0.01860	0.02604	0.32940	0.02713	2.50740	0.04793			
sg13g2_dfrbpq_1	0.01860	0.02608	0.32940	0.02718	2.50740	0.04799			

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	0.01381	0.32940	0.01484	2.50740	0.03437		
ss12s2 dfuhus 2	(D * !RESET_B * !Q)	0.01860	0.01445	0.32940	0.01554	2.50740	0.03497		
sg13g2_dfrbpq_2	(ID * RESET R	0.01860	0.01362	0.32940	0.01466	2.50740	0.03420		
	(!D * !RESET_B	0.01860	0.01426	0.32940	0.01534	2.50740	0.03477		
	(D * RESET_B * Q)	0.01860	0.01376	0.32940	0.01479	2.50740	0.03432		
201222 dfuhua 1	(D * !RESET_B * !Q)	0.01860	0.01431	0.32940	0.01541	2.50740	0.03486		
sg13g2_dfrbpq_1	('D * RESET R	0.01860	0.01350	0.32940	0.01452	2.50740	0.03409		
	(!D * !RESET_B	0.01860	0.01413	0.32940	0.01523	2.50740	0.03466		

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	0.03877	0.32940	0.03988	2.50740	0.06068
	(D * RESET_B * !Q)	0.01860	0.02604	0.32940	0.02713	2.50740	0.04793
201222 dfuhua 2	(D * !RESET_B * !Q)	0.01860	0.01349	0.32940	0.01460	2.50740	0.03474
sg13g2_dfrbpq_2	(!D * RESET_B * Q)	0.01860	0.04825	0.32940	0.04969	2.50740	0.06981
	(!D * RESET_B * !Q)	0.01860	0.01339	0.32940	0.01452	2.50740	0.03466
	(!D * !RESET_B	0.01860	0.01342	0.32940	0.01452	2.50740	0.03466
	(D * RESET_B * Q)	0.01860	0.03282	0.32940	0.03391	2.50740	0.05472
	(D * RESET_B * !Q)	0.01860	0.02608	0.32940	0.02718	2.50740	0.04799
001202 dfulma 1	(D * !RESET_B * !Q)	0.01860	0.01353	0.32940	0.01464	2.50740	0.03479
sg13g2_dfrbpq_1	(!D * RESET_B * Q)	0.01860	0.03814	0.32940	0.03969	2.50740	0.05998
	(!D * RESET_B * !Q)	0.01860	0.01343	0.32940	0.01456	2.50740	0.03471
	(!D * !RESET_B	0.01860	0.01347	0.32940	0.01455	2.50740	0.03471

DLHQ



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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

Cell Name	Pin C	ap(pf)	Max Cap(pf)
	D	GATE	Q
sg13g2_dlhq_1	0.00226	0.00228	0.30000

Leakage Information

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_dlhq_1	2192.03000	2682.43000	3355.59000			

Delay Information Delay(ns) to Q rising:

Cell Name P	Timing					Delay(ns)				
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D->Q (RR)	0.01860	0.00100	0.17854	0.32940	0.06480	0.44166	2.50740	0.30000	1.27654
sg13g2_dlhq_1	GATE->Q (RR)	0.01860	0.00100	0.15230	0.32940	0.06480	0.41666	2.50740	0.30000	1.22123

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	D->Q (FF)	0.01860	0.00100	0.15605	0.32940	0.06480	0.39813	2.50740	0.30000	1.13877		
sg13g2_dlhq_1	GATE->Q (RF)	0.01860	0.00100	0.16242	0.32940	0.06480	0.40281	2.50740	0.30000	1.09260		

Constraint Information

Constraints(ns) for D rising:

	Timing	Dof	Constraint(ns)									
Cell Name	0	eck 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	hold	GATE (F)	0.01860	0.01860	-0.09781	1.26300	1.26300	-0.17539	2.50740	2.50740	-0.19185	
sg13g2_dlhq_1	setup	GATE (F)	0.01860	0.01860	0.10270	1.26300	1.26300	0.20508	2.50740	2.50740	0.24203	

Constraints(ns) for D falling:

	Timina	ing 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	
12.2	hold	GATE (F)	0.01860	0.01860	-0.03912	1.26300	1.26300	0.00000	2.50740	2.50740	0.04132	
sg13g2_dlhq_1	setup	GATE (F)	0.01860	0.01860	0.04646	1.26300	1.26300	0.00540	2.50740	2.50740	-0.03542	

Constraints(ns) for GATE rising:

Cell Name Timing Check		Ref		Constraint(ns)									
	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	0.07980	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Power Information

Internal switching power(pJ) to Q 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			
221222 dlb 2 1	D	0.01860	0.00100	0.01798	0.32940	0.06480	0.01833	2.50740	0.30000	0.01839			
sg13g2_dlhq_1	GATE	0.01860	0.00100	0.01487	0.32940	0.06480	0.01520	2.50740	0.30000	0.01620			

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	0.01905	0.32940	0.06480	0.01945	2.50740	0.30000	0.01974			
sg13g2_dlhq_1	GATE	0.01860	0.00100	0.01626	0.32940	0.06480	0.01692	2.50740	0.30000	0.01718			

Passive power(pJ) for D rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	0.01860	0.00467	0.32940	0.00539	2.50740	0.01861				

Passive power(pJ) for D falling:

Cell Name		Power(pJ)									
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dlhq_1	0.01860	0.00466	0.32940	0.00552	2.50740	0.01902					

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	0.00467	0.32940	0.00539	2.50740	0.01861			
	(!GATE * !Q)	0.01860	0.00423	0.32940	0.00504	2.50740	0.01827			

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	0.00442	0.32940	0.00536	2.50740	0.01890				
	(!GATE * !Q)	0.01860	0.00466	0.32940	0.00552	2.50740	0.01902				

Passive power(pJ) for GATE rising:

Cell Name	Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	0.01860	0.01108	0.32940	0.01205	2.50740	0.02868				

Passive power(pJ) for GATE falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	0.01860	0.01874	0.32940	0.02030	2.50740	0.03781				

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

Call Name	Whon		Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	(!D * !Q)	0.01860	0.01108	0.32940	0.01205	2.50740	0.02868				

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	(!D * !Q)	0.01860	0.01874	0.32940	0.02030	2.50740	0.03781				

DLHRQ



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00211	0.00288	0.00218	0.30000

Leakage Information

Call Name		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_dlhrq_1	2461.77000	2911.10000	3378.45000						

Delay Information Delay(ns) to Q rising:

Call Name	Timing		Delay(ns)											
Cell Name	Arc(Dir) D->Q	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	0.18776	0.32940	0.06480	0.45549	2.50740	0.30000	1.28798				
	GATE->Q (RR)	0.01860	0.00100	0.16928	0.32940	0.06480	0.44007	2.50740	0.30000	1.24407				

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	0.16496	0.32940	0.06480	0.40998	2.50740	0.30000	1.15716
sg13g2_dlhrq_1	GATE->Q (RF)	0.01860	0.00100	0.17364	0.32940	0.06480	0.41882	2.50740	0.30000	1.12021
	RESET_B->Q (FF)	0.01860	0.00100	0.06557	0.32940	0.06480	0.33084	2.50740	0.30000	1.15404

Constraint Information

Constraints(ns) for D 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			
12.2	hold	GATE (F)	0.01860	0.01860	-0.08803	1.26300	1.26300	-0.15651	2.50740	2.50740	-0.17119			
sg13g2_dlhrq_1	setup	GATE (F)	0.01860	0.01860	0.09781	1.26300	1.26300	0.18619	2.50740	2.50740	0.21841			

Constraints(ns) for D falling:

			Constraint(ns)										
Cell Name		1	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
	hold	GATE (F)	0.01860	0.01860	-0.04401	1.26300	1.26300	0.00270	2.50740	2.50740	0.04132		
sg13g2_dlhrq_1	setup	GATE (F)	0.01860	0.01860	0.05135	1.26300	1.26300	0.00540	2.50740	2.50740	-0.03542		

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			
	recovery	GATE (F)	0.01860	0.01860	-0.01712	1.26300	1.26300	-0.13492	2.50740	2.50740	-0.20070			
sg13g2_dlhrq_1	removal	GATE (F)	0.01860	0.01860	0.02934	1.26300	1.26300	0.15111	2.50740	2.50740	0.21546			

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	0.20157	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Constraints(ns) for GATE rising:

		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_dlhrq_1	min_pulse_width	GATE ()	0.01860	0.00000	0.08301	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	D	0.01860	0.00100	0.00117	0.32940	0.06480	0.00103	2.50740	0.30000	0.00081
sg13g2_dlhrq_1	GATE	0.01860	0.00100	0.01159	0.32940	0.06480	0.01193	2.50740	0.30000	0.01196

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	-0.00117	0.32940	0.06480	-0.00103	2.50740	0.30000	-0.00081	
sg13g2_dlhrq_1	GATE	0.01860	0.00100	0.01161	0.32940	0.06480	0.01236	2.50740	0.30000	0.01168	
	RESET_B	0.01860	0.00100	0.00940	0.32940	0.06480	0.01069	2.50740	0.30000	0.02662	

Passive power(pJ) for D rising:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	0.01860	0.02152	0.32940	0.02263	2.50740	0.03623			

Passive power(pJ) for D falling:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dlhrq_1	0.01860	0.02659	0.32940	0.03155	2.50740	0.04560		

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

Cell Name	VV/h ore	Power(pJ)							
Cen Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	0.00145	0.32940	0.00220	2.50740	0.01542		
	!RESET_B	0.01860	0.02152	0.32940	0.02263	2.50740	0.03623		

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

C-II N	XX71		Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	0.00577	0.32940	0.00670	2.50740	0.02024				
	!RESET_B	0.01860	0.02659	0.32940	0.03155	2.50740	0.04560				

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	0.00008	0.32940	0.00006	2.50740	0.00008			

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	0.00022	0.32940	0.00008	2.50740	0.00004			

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

Call Name	W/h ore		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
12-2 Jll 1	(D * !GATE * !Q)	0.01860	0.00009	0.32940	0.00007	2.50740	0.00008			
sg13g2_dlhrq_1	(!D * !GATE * !Q)	0.01860	0.00008	0.32940	0.00006	2.50740	0.00008			

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

Call Name	Whom		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
12-2 Jll 1	(D * !GATE * !Q)	0.01860	0.00022	0.32940	0.00009	2.50740	0.00004			
sg13g2_dlhrq_1	(!D * !GATE * !Q)	0.01860	0.00022	0.32940	0.00008	2.50740	0.00004			

Passive power(pJ) for GATE rising:

Cell Name	Power(pJ)							
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dlhrq_1	0.01860	0.01510	0.32940	0.01591	2.50740	0.03346		

Passive power(pJ) for GATE falling:

Call Name	Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhrq_1	0.01860	0.01902	0.32940	0.02065	2.50740	0.03795				

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

Call Name	When		Power(pJ)								
Cell Name	when	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
12.2 W 1	(D * !RESET_B * !Q)	0.01860	0.01510	0.32940	0.01591	2.50740	0.03346				
sg13g2_dlhrq_1	(!D * !RESET_B * !Q)	0.01860	0.01075	0.32940	0.01168	2.50740	0.02819				

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	0.01493	0.32940	0.01600	2.50740	0.03455				
	(!D * RESET_B * !Q)	0.01860	0.01902	0.32940	0.02065	2.50740	0.03795				
	(!D * !RESET_B * !Q)	0.01860	0.01908	0.32940	0.02076	2.50740	0.03803				

DLHR



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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name		Pin Cap(pf)	Max Cap(pf)			
	D	RESET_B	GATE	Q	Q_N	
sg13g2_dlhr_1	0.00206	0.00304	0.00224	0.30000	0.30000	

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dlhr_1	3241.39000	3717.17000	4179.22000					

Delay Information Delay(ns) to Q rising:

Call Name Timin	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 (RR)	0.01860	0.00100	0.20291	0.32940	0.06480	0.47737	2.50740	0.30000	1.30927		
sg13g2_dlhr_1	GATE->Q (RR)	0.01860	0.00100	0.18518	0.32940	0.06480	0.46334	2.50740	0.30000	1.26847		

Delay(ns) to Q falling:

Cell Name	Timing Arc(Dir)	Delay(ns)									
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	0.17098	0.32940	0.06480	0.41924	2.50740	0.30000	1.16128	
	GATE->Q (RF)	0.01860	0.00100	0.17983	0.32940	0.06480	0.42905	2.50740	0.30000	1.12640	
	RESET_B->Q (FF)	0.01860	0.00100	0.07140	0.32940	0.06480	0.34814	2.50740	0.30000	1.18299	

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	0.21011	0.32940	0.06480	0.46979	2.50740	0.30000	1.30573	
	GATE->Q_N (RR)	0.01860	0.00100	0.21909	0.32940	0.06480	0.47980	2.50740	0.30000	1.27081	
	RESET_B->Q_N (FR)	0.01860	0.00100	0.11042	0.32940	0.06480	0.39376	2.50740	0.30000	1.27456	

Delay(ns) to Q_N falling:

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	0.24560	0.32940	0.06480	0.47971	2.50740	0.30000	1.21737			
	GATE->Q_N (RF)	0.01860	0.00100	0.22814	0.32940	0.06480	0.46550	2.50740	0.30000	1.17618			

Constraint Information

Constraints(ns) for D rising:

Cell Name Timing Check	Timin D.C		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			
42.0 W	hold	GATE (F)	0.01860	0.01860	-0.09536	1.26300	1.26300	-0.16190	2.50740	2.50740	-0.17414		
sg13g2_dlhr_1	setup	GATE (F)	0.01860	0.01860	0.10759	1.26300	1.26300	0.19158	2.50740	2.50740	0.22432		

Constraints(ns) for D falling:

	Timing	Ref				Co	nstraint(n	s)			
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 -	hold	GATE (F)	0.01860	0.01860	-0.04401	1.26300	1.26300	0.00270	2.50740	2.50740	0.04132
	setup	GATE (F)	0.01860	0.01860	0.05379	1.26300	1.26300	0.00540	2.50740	2.50740	-0.03247

Constraints(ns) for RESET_B rising:

	TD::	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
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	-0.00734	1.26300	1.26300	-0.09174	2.50740	2.50740	-0.13872
	removal	GATE (F)	0.01860	0.01860	0.02201	1.26300	1.26300	0.11063	2.50740	2.50740	0.15348

Constraints(ns) for RESET_B falling:

		Dof		Constraint(ns)								
Cell Name Timin	Timing Check	ek 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_dlhr_1	min_pulse_width	RESET_B	0.01860	0.00000	0.20477	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Constraints(ns) for GATE rising:

Call Name		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	0.08942	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			
sg13g2_dlhr_1	D	0.01860	0.00100	0.00576	0.32940	0.06480	0.00593	2.50740	0.30000	0.00586			
	GATE	0.01860	0.00100	0.01081	0.32940	0.06480	0.01122	2.50740	0.30000	0.01132			

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	0.00292	0.32940	0.06480	0.00109	2.50740	0.30000	0.00095
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.01080	0.32940	0.06480	0.01128	2.50740	0.30000	0.01093
	RESET_B	0.01860	0.00100	0.00950	0.32940	0.06480	0.01022	2.50740	0.30000	0.01911

Internal switching power(pJ) to Q_N 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
	D	0.01860	0.00100	0.00294	0.32940	0.06480	0.00133	2.50740	0.30000	0.00105
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.01812	0.32940	0.06480	0.01921	2.50740	0.30000	0.02762
	RESET_B	0.01860	0.00100	0.00950	0.32940	0.06480	0.01043	2.50740	0.30000	0.01917

Internal switching power(pJ) to Q_N 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			
12.2 W 1	D	0.01860	0.00100	0.00576	0.32940	0.06480	0.00584	2.50740	0.30000	0.00572			
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.01080	0.32940	0.06480	0.01106	2.50740	0.30000	0.01110			

Passive power(pJ) for D rising:

Cell Name			Powe	r(pJ)		
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	0.02099	0.32940	0.02211	2.50740	0.03570

Passive power(pJ) for D falling:

Cell Name			Powe	r(pJ)		
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	0.02611	0.32940	0.03122	2.50740	0.04534

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

Cell Name	When		Power(pJ)								
Cell Name	wnen	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	0.00412	0.32940	0.00490	2.50740	0.01819				
	!RESET_B	0.01860	0.02099	0.32940	0.02211	2.50740	0.03570				

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

Call Name	VVII- ore			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	0.00832	0.32940	0.00929	2.50740	0.02289
	!RESET_B	0.01860	0.02611	0.32940	0.03122	2.50740	0.04534

Passive power(pJ) for RESET_B rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	Slew(ns) First Slew(ns) Mid Slew(ns) La					
sg13g2_dlhr_1	0.01860	-0.00006	0.32940	-0.00009	2.50740	-0.00007	

Passive power(pJ) for RESET_B falling:

Call Name	Power(pJ) Slew(ns) First Slew(ns) Mid Slew(ns) Last					
Cell Name						
sg13g2_dlhr_1	0.01860	0.00034	0.32940	0.00021	2.50740	0.00017

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

Call Name	W/hor		Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	-0.00006	0.32940	-0.00009	2.50740	-0.00007		
	(!D * !GATE * !Q)	0.01860	-0.00006	0.32940	-0.00009	2.50740	-0.00007		

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 30 1	(D * !GATE * !Q)	0.01860	0.00034	0.32940	0.00021	2.50740	0.00017	
sg13g2_dlhr_1	(!D * !GATE * !Q)	0.01860	0.00034	0.32940	0.00021	2.50740	0.00017	

Passive power(pJ) for GATE rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns)						
sg13g2_dlhr_1	0.01860	0.01464	0.32940	0.01546	2.50740	0.03305	

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	0.01876	0.32940	0.02034	2.50740	0.03776	

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

Call Name Wilson		Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	0.01464	0.32940	0.01546	2.50740	0.03305	
	(!D * !RESET_B * !Q)	0.01860	0.01033	0.32940	0.01128	2.50740	0.02790	

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	0.01530	0.32940	0.01636	2.50740	0.03493	
	(!D * RESET_B * !Q)	0.01860	0.01876	0.32940	0.02034	2.50740	0.03776	
	(!D * !RESET_B * !Q)	0.01860	0.01882	0.32940	0.02040	2.50740	0.03781	





sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00202	0.00291	0.00215	0.30000

Leakage Information

Call Name	Leakage(pW)				
Cell Name	Min.	Avg	Max.		
sg13g2_dllrq_1	2461.64000	2910.99000	3378.55000		

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
	D->Q (RR)	0.01860	0.00100	0.18679	0.32940	0.06480	0.45358	2.50740	0.30000	1.28558
sg13g2_dllrq_1	GATE_N->Q (FR)	0.01860	0.00100	0.20831	0.32940	0.06480	0.49134	2.50740	0.30000	1.39077
	RESET_B->Q (RR)	0.01860	0.00100	0.08239	0.32940	0.06480	0.34979	2.50740	0.30000	1.22510

Delay(ns) to Q 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
	D->Q (FF)	0.01860	0.00100	0.16408	0.32940	0.06480	0.40729	2.50740	0.30000	1.15072
sg13g2_dllrq_1	GATE_N->Q (FF)	0.01860	0.00100	0.15713	0.32940	0.06480	0.41923	2.50740	0.30000	1.24856
	RESET_B->Q (FF)	0.01860	0.00100	0.06627	0.32940	0.06480	0.33047	2.50740	0.30000	1.15149

Constraint Information

Constraints(ns) for D 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			
201222 dilum 1	hold	GATE_N (R)	0.01860	0.01860	-0.06847	1.26300	1.26300	-0.08635	2.50740	2.50740	-0.11806			
sg13g2_dllrq_1	setup	GATE_N (R)	0.01860	0.01860	0.07580	1.26300	1.26300	0.09444	2.50740	2.50740	0.12397			

Constraints(ns) for D falling:

	Timin a	Def		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			
221222 dilua 1	hold	GATE_N (R)	0.01860	0.01860	-0.08314	1.26300	1.26300	-0.22936	2.50740	2.50740	-0.30401			
sg13g2_dllrq_1	setup	GATE_N (R)	0.01860	0.01860	0.09047	1.26300	1.26300	0.25634	2.50740	2.50740	0.34533			

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	-0.03912	1.26300	1.26300	-0.08905	2.50740	2.50740	-0.08559
sg13g2_dllrq_1	removal	GATE_N (R)	0.01860	0.01860	0.05135	1.26300	1.26300	0.09984	2.50740	2.50740	0.09445

Constraints(ns) for RESET_B 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	RESET_B	0.01860	0.00000	0.19836	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Constraints(ns) for GATE_N falling:

		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	0.10544	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			
	D	0.01860	0.00100	0.00785	0.32940	0.06480	0.00829	2.50740	0.30000	0.00849			
sg13g2_dllrq_1	GATE_N	0.01860	0.00100	0.00854	0.32940	0.06480	0.00837	2.50740	0.30000	0.00816			
	RESET_B	0.01860	0.00100	0.01163	0.32940	0.06480	0.01211	2.50740	0.30000	0.02626			

Internal switching power(pJ) to Q falling:

Call Name	T		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	0.00516	0.32940	0.06480	0.00043	2.50740	0.30000	0.00010			
sg13g2_dllrq_1	GATE_N	0.01860	0.00100	0.00715	0.32940	0.06480	0.00697	2.50740	0.30000	0.00815			
	RESET_B	0.01860	0.00100	0.00958	0.32940	0.06480	0.01087	2.50740	0.30000	0.02686			

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	0.01468	0.32940	0.01527	2.50740	0.02847					

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	0.01720	0.32940	0.02318	2.50740	0.03723					

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	0.00137	0.32940	0.00213	2.50740	0.01540				
_	!RESET_B	0.01860	0.01468	0.32940	0.01527	2.50740	0.02847				

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

Cell Name	33 71		Power(pJ)						
	When	Slew(ns) First Slew(ns) Mid					Last		
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	0.00569	0.32940	0.00665	2.50740	0.02024		
	!RESET_B	0.01860	0.01720	0.32940	0.02318	2.50740	0.03723		

Passive power(pJ) for RESET_B rising:

Call Name		Power(pJ)				
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) I					
sg13g2_dllrq_1	0.01860	0.00017	0.32940	0.00015	2.50740	0.00016

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	0.00023	0.32940	0.00010	2.50740	0.00005

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

Cell Name	W/h or	Power(pJ)						
	When	Slew(ns)	First	Slew(ns)	Mid	Mid Slew(ns)		
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	0.00017	0.32940	0.00015	2.50740	0.00016	
	(!D * GATE_N * !Q)	0.01860	0.00017	0.32940	0.00015	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)	Last
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	0.00023	0.32940	0.00010	2.50740	0.00005
	(!D * GATE_N * !Q)	0.01860	0.00023	0.32940	0.00010	2.50740	0.00005

Passive power(pJ) for GATE_N rising:

Call Name			Power	r(pJ)					
Cell Name	Slew(ns)	Slew(ns) First Slew(ns) Mid Slew(ns) Last							
sg13g2_dllrq_1	0.01860	0.01860 0.01642 0.32940 0.01724 2.50740 0.03359							

Passive power(pJ) for GATE_N falling:

Call Name			Power(pJ)					
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) L							
sg13g2_dllrq_1	0.01860	0.01860 0.01889 0.32940 0.02053 2.50740 0.03						

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

Cell Name	W/h or	Power(pJ)						
Cen Name	Cell Name When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	0.01642	0.32940	0.01724	2.50740	0.03359	
	(!D * !RESET_B * !Q)	0.01860	0.00959	0.32940	0.01054	2.50740	0.02710	

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

Cell Name	W/h or	Power(pJ)						
	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	0.01586	0.32940	0.01690	2.50740	0.03415	
	(!D * RESET_B * !Q)	0.01860	0.01889	0.32940	0.02053	2.50740	0.03800	
	(!D * !RESET_B * !Q)	0.01860	0.01896	0.32940	0.02059	2.50740	0.03810	





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

Truth Table

	INPU	OUTPUT		
D	RESET_B GATE_N		Q	Q_N
X	0	X	0	1
0	1	0	0	1
x	1	1	IQ	IQN
1	1	0	1	0

Footprint

Cell Name	Area		
sg13g2_dllr_1	34.47360		

Pin Capacitance Information

Call Name		Pin Cap(pf)		Max Cap(pf)			
Cell Name	D	RESET_B	Q	Q_N			
sg13g2_dllr_1	0.00213	0.00300	0.00229	0.30000	0.30000		

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dllr_1	3240.99000	3809.48000	4179.07000					

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	0.20472	0.32940	0.06480	0.47874	2.50740	0.30000	1.30986		
	GATE_N->Q (FR)	0.01860	0.00100	0.22616	0.32940	0.06480	0.51724	2.50740	0.30000	1.41660		

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		
	D->Q (FF)	0.01860	0.00100	0.17297	0.32940	0.06480	0.42078	2.50740	0.30000	1.16286		
sg13g2_dllr_1	GATE_N->Q (FF)	0.01860	0.00100	0.16695	0.32940	0.06480	0.43493	2.50740	0.30000	1.26651		
	RESET_B->Q (FF)	0.01860	0.00100	0.07128	0.32940	0.06480	0.35236	2.50740	0.30000	1.16669		

Delay(ns) to Q_N rising:

Cell Name	Timing Arc(Dir)	Delay(ns)									
Cen ivallie		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	0.21189	0.32940	0.06480	0.47110	2.50740	0.30000	1.30620	
	GATE_N->Q_N (FR)	0.01860	0.00100	0.20607	0.32940	0.06480	0.48535	2.50740	0.30000	1.40872	
	RESET_B->Q_N (FR)	0.01860	0.00100	0.11100	0.32940	0.06480	0.39504	2.50740	0.30000	1.28186	

Delay(ns) to Q_N 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_dllr_1	D->Q_N (RF)	0.01860	0.00100	0.24717	0.32940	0.06480	0.48114	2.50740	0.30000	1.21826	
	GATE_N->Q_N (FF)	0.01860	0.00100	0.26883	0.32940	0.06480	0.51952	2.50740	0.30000	1.32555	

Constraint Information

Constraints(ns) for D rising:

	Timina	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	hold	GATE_N (R)	0.01860	0.01860	-0.07580	1.26300	1.26300	-0.09174	2.50740	2.50740	-0.12101		
	setup	GATE_N (R)	0.01860	0.01860	0.08803	1.26300	1.26300	0.10254	2.50740	2.50740	0.13282		

Constraints(ns) for D falling:

	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	-0.08803	1.26300	1.26300	-0.23206	2.50740	2.50740	-0.30696	
	setup	GATE_N (R)	0.01860	0.01860	0.09536	1.26300	1.26300	0.25904	2.50740	2.50740	0.35419	

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	
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	-0.02934	1.26300	1.26300	-0.05127	2.50740	2.50740	-0.02656	
	removal	GATE_N (R)	0.01860	0.01860	0.04401	1.26300	1.26300	0.06476	2.50740	2.50740	0.03837	

Constraints(ns) for RESET_B 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_dllr_1	min_pulse_width	RESET_B	0.01860	0.00000	0.20477	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Constraints(ns) for GATE_N falling:

G 11 11	ell Name Timing Check	Ref 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	min_pulse_width	GATE_N	0.01860	0.00000	0.11505	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	0.01219	0.32940	0.06480	0.07046	2.50740	0.30000	0.28456	
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.02258	0.32940	0.06480	0.08168	2.50740	0.30000	0.29592	

Internal switching power(pJ) to Q falling:

Call Name	T4		Power(pJ)							
Cell Name	Cell Name Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D	0.01860	0.00100	0.00896	0.32940	0.06480	0.05899	2.50740	0.30000	0.27311
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.02051	0.32940	0.06480	0.07928	2.50740	0.30000	0.29480
	RESET_B	0.01860	0.00100	0.02953	0.32940	0.06480	0.08850	2.50740	0.30000	0.31746

Internal switching power(pJ) to Q_N rising:

Call Name	T4		Power(pJ)							
Cell Name In	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D	0.01860	0.00100	0.00899	0.32940	0.06480	0.05945	2.50740	0.30000	0.27344
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.03670	0.32940	0.06480	0.09695	2.50740	0.30000	0.32934
	RESET_B	0.01860	0.00100	0.02953	0.32940	0.06480	0.08891	2.50740	0.30000	0.31782

Internal switching power(pJ) to Q_N falling:

Cell Name	T4]	Power(pJ)				
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
aa12a2 Jlla 1	D	0.01860	0.00100	0.01219	0.32940	0.06480	0.07013	2.50740	0.30000	0.28414
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.02258	0.32940	0.06480	0.08136	2.50740	0.30000	0.29576

Passive power(pJ) for D rising:

Cell Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dllr_1	0.01860	0.02181	0.32940	0.02320	2.50740	0.03684		

Passive power(pJ) for D falling:

Cell Name	Power(pJ)							
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dllr_1	0.01860	0.02379	0.32940	0.03335	2.50740	0.04737		

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

Cell Name	YY 71	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	0.00419	0.32940	0.00498	2.50740	0.01826	
	!RESET_B	0.01860	0.02181	0.32940	0.02320	2.50740	0.03684	

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	0.00401	0.32940	0.00498	2.50740	0.01860			
	!RESET_B	0.01860	0.02379	0.32940	0.03335	2.50740	0.04737			

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	0.00338	0.32940	0.00335	2.50740	0.00337		

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	0.00039	0.32940	0.00025	2.50740	0.00021		

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

Call Name	W/h ore		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
10.0 33	(D * GATE_N * !Q)	0.01860	0.00338	0.32940	0.00335	2.50740	0.00337			
sg13g2_dllr_1	(!D * GATE_N * !Q)	0.01860	-0.00009	0.32940	-0.00012	2.50740	-0.00010			

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

Call Name	When		Power(pJ)							
Cell Name	vv nen	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
	(D * GATE_N * !Q)	0.01860	0.00038	0.32940	0.00025	2.50740	0.00021			
sg13g2_dllr_1	(!D * GATE_N * !Q)	0.01860	0.00039	0.32940	0.00025	2.50740	0.00021			

Passive power(pJ) for GATE_N rising:

Call Name			Powe	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	0.01748	0.32940	0.02078	2.50740	0.03740

Passive power(pJ) for GATE_N falling:

Call Name			Power(pJ)							
Cell Name Slew(n	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dllr_1	0.01860	0.01616	0.32940	0.01720	2.50740	0.03446				

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

Call Name	W/h ore	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
	(D * !RESET_B * !Q)	0.01860	0.01648	0.32940	0.01731	2.50740	0.03365			
sg13g2_dllr_1	(!D * RESET_B * !Q)	0.01860	0.01748	0.32940	0.02078	2.50740	0.03740			
	(!D * !RESET_B * !Q)	0.01860	0.01755	0.32940	0.02086	2.50740	0.03746			

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

Call Name	Cell Name When	Power(pJ)								
Cell Name	vv nen	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
221222 JUL 1	(D * !RESET_B * !Q)	0.01860	0.01616	0.32940	0.01720	2.50740	0.03446			
sg13g2_dllr_1	(!D * !RESET_B * !Q)	0.01860	0.01059	0.32940	0.01167	2.50740	0.02904			

DLY1



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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	14.51520

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)		
Cell Name	A	X		
sg13g2_dlygate4sd1_1	0.00148	0.30000		

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

Delay Information Delay(ns) to X rising:

L Cell Name	Timing					Delay(ns)				
Cen Name	Arc(Dir) Sle	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	0.11907	0.32940	0.06480	0.38201	2.50740	0.30000	1.15773

Delay(ns) to X falling:

Cell Name	Timing					Delay(ns)				
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	(ns) Load(pf) (740 0.30000 1	Last
sg13g2_dlygate4sd1_1	A->X (FF)	0.01860	0.00100	0.13631	0.32940	0.06480	0.40320	2.50740	0.30000	1.26194

Internal switching power(pJ) to X rising:

Cell Name In	Innut]	Power(pJ)				
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	A	0.01860	0.00100	0.01569	0.32940	0.06480	0.01629	2.50740	0.30000	0.02449

Internal switching power(pJ) to X falling:

Cell Name Inp	Innut]	Power(pJ)				
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	A	0.01860	0.00100	0.01504	0.32940	0.06480	0.01590	2.50740	0.30000	0.02435

DLY2



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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	14.51520

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_dlygate4sd2_1	0.00147	0.30000

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

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	0.17621	0.32940	0.06480	0.45234	2.50740	0.30000	1.27021

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_dlygate4sd2_1	A->X (FF)	0.01860	0.00100	0.19696	0.32940	0.06480	0.48451	2.50740	0.30000	1.38170

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	0.01864	0.32940	0.06480	0.01917	2.50740	0.30000	0.02676

Internal switching power(pJ) to X falling:

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	0.01811	0.32940	0.06480	0.01875	2.50740	0.30000	0.02683

DLY4



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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_dlygate4sd3_1	0.00148	0.30000

Call Nama	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_dlygate4sd3_1	2554.52000	2742.91000	2931.30000			

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	0.38601	0.32940	0.06480	0.69729	2.50740	0.30000	1.59349		

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	0.40435	0.32940	0.06480	0.73207	2.50740	0.30000	1.71723		

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	0.02690	0.32940	0.06480	0.02686	2.50740	0.30000	0.03339		

Internal switching power(pJ) to X falling:

Call Nama Inn		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	0.02664	0.32940	0.06480	0.02662	2.50740	0.30000	0.03312		





sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00802	0.00894	1.20000
sg13g2_einvn_2	0.00412	0.00480	0.60000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_einvn_4	1199.74000	2309.88000	3420.01000					
sg13g2_einvn_2	594.24000	1149.30000	1704.37000					

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	0.01046	0.02518	0.32940	0.26866	0.55103	2.50740	1.20946	2.86190
sg13g2_einvn_4	TE_B->Z (RR)	0.01860	0.01046	0.05487	0.32940	0.26866	0.12390	2.50740	1.20946	0.24758
	TE_B->Z (FR)	0.01860	0.01046	0.03188	0.32940	0.26866	0.52334	2.50740	1.20946	2.59282
	A->Z (FR)	0.01860	0.00585	0.02714	0.32940	0.13445	0.55055	2.50740	0.60485	2.85924
sg13g2_einvn_2	TE_B->Z (RR)	0.01860	0.00585	0.05373	0.32940	0.13445	0.12158	2.50740	0.60485	0.25817
	TE_B->Z (FR)	0.01860	0.00585	0.03335	0.32940	0.13445	0.52327	2.50740	0.60485	2.59276

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	0.01558	0.02207	0.32940	0.27377	0.45470	2.50740	1.21458	2.40563			
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00848	0.02375	0.32940	0.13708	0.45467	2.50740	0.60748	2.40588			

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	0.01046	0.00652	0.32940	0.26866	0.00931	2.50740	1.20946	0.02237			
sg13g2_einvn_4	TE_B	0.01860	0.01046	0.01894	0.32940	0.26866	0.01780	2.50740	1.20946	0.01657			
12-2 2	A	0.01860	0.00585	0.00331	0.32940	0.13445	0.00459	2.50740	0.60485	0.01081			
sg13g2_einvn_2	TE_B	0.01860	0.00585	0.00933	0.32940	0.13445	0.00878	2.50740	0.60485	0.00832			

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	0.01558	0.00651	0.32940	0.27377	0.00958	2.50740	1.21458	0.02067				
sg13g2_einvn_2	A	0.01860	0.00848	0.00345	0.32940	0.13708	0.00487	2.50740	0.60748	0.01034				

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	-0.01451	0.32940	-0.01395	2.50740	0.00388			
sg13g2_einvn_2	0.01860	-0.00638	0.32940	-0.00610	2.50740	0.00320			

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	0.01780	0.32940	0.01945	2.50740	0.03884			
sg13g2_einvn_2	0.01860	0.00900	0.32940	0.00982	2.50740	0.01979			





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

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_8	14.51520
sg13g2_fill_4	7.25760
sg13g2_fill_2	3.62880

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_4	0.00000	0.00000	0.00000				
sg13g2_fill_2	0.00000	0.00000	0.00000				





sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00229	0.00486	0.30000		

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_lgcp_1	2636.05000	2874.13000	3045.12000			

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	0.07274	0.32940	0.06480	0.33567	2.50740	0.30000	1.19974

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	0.06103	0.32940	0.06480	0.31899	2.50740	0.30000	1.12584

Constraint Information

Constraints(ns) for GATE rising:

	Timina	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
221222 Jan 1	hold	CLK (R)	0.01860	0.01860	-0.03900	1.26300	1.26300	-0.15598	2.50740	2.50740	-0.24733
sg13g2_lgcp_1	setup	CLK (R)	0.01860	0.01860	0.07575	1.26300	1.26300	0.21385	2.50740	2.50740	0.31808

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		
221222 Jan 1	hold	CLK (R)	0.01860	0.01860	-0.01698	1.26300	1.26300	-0.02578	2.50740	2.50740	-0.03757		
sg13g2_lgcp_1	setup	CLK (R)	0.01860	0.01860	0.05186	1.26300	1.26300	0.07326	2.50740	2.50740	0.09400		

Constraints(ns) for CLK rising:

	Cell Name Timing Check	Ref		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_lgcp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.24002	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Constraints(ns) for CLK falling:

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	0.09903	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 I	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_lgcp_1	CLK	0.01860	0.00100	0.01056	0.32940	0.06480	0.01105	2.50740	0.30000	0.02326		

Internal switching power(pJ) to GCLK falling:

Call Name	Innut		Power(pJ)									
Cell Name	Input		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_lgcp_1	CLK	0.01860	0.00100	0.00768	0.32940	0.06480	0.00894	2.50740	0.30000	0.02215		

Passive power(pJ) for GATE rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_lgcp_1	0.01860	0.02376	0.32940	0.02538	2.50740	0.03857				

Passive power(pJ) for GATE falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_lgcp_1	0.01860	0.01566	0.32940	0.03571	2.50740	0.04957				

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	0.02376	0.32940	0.02538	2.50740	0.03857			

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	0.01566	0.32940	0.03571	2.50740	0.04957			

Passive power(pJ) for CLK rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_lgcp_1	0.01860	0.00897	0.32940	0.00994	2.50740	0.02639					

Passive power(pJ) for CLK falling :

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_lgcp_1	0.01860	0.01031	0.32940	0.01127	2.50740	0.02866					





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

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)	
Cell Name	A	Y	
sg13g2_inv_16	0.04267	4.80000	
sg13g2_inv_8	0.02199	2.40000	
sg13g2_inv_4	0.01099	1.20000	
sg13g2_inv_2	0.00556	0.60000	
sg13g2_inv_1	0.00281	0.30000	

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_inv_16	3291.05000	7731.68000	12172.30000				
sg13g2_inv_8	1645.53000	3865.87000	6086.21000				
sg13g2_inv_4	822.76200	1932.92000	3043.07000				
sg13g2_inv_2	411.38900	966.47000	1521.55000				
sg13g2_inv_1	205.86900	483.36200	760.85600				

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_inv_16	A->Y (FR)	0.01860	0.00100	0.01824	0.32940	1.03680	0.36430	2.50740	4.80000	1.99680
sg13g2_inv_8	A->Y (FR)	0.01860	0.00100	0.01578	0.32940	0.51840	0.36077	2.50740	2.40000	1.99094
sg13g2_inv_4	A->Y (FR)	0.01860	0.00100	0.01615	0.32940	0.25920	0.36045	2.50740	1.20000	1.99021
sg13g2_inv_2	A->Y (FR)	0.01860	0.00100	0.01733	0.32940	0.12960	0.36002	2.50740	0.60000	1.98755
sg13g2_inv_1	A->Y (FR)	0.01860	0.00100	0.02028	0.32940	0.06480	0.36080	2.50740	0.30000	1.98832

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	0.01826	0.32940	1.03680	0.34319	2.50740	4.80000	1.87170
sg13g2_inv_8	A->Y (RF)	0.01860	0.00100	0.01550	0.32940	0.51840	0.34100	2.50740	2.40000	1.86970
sg13g2_inv_4	A->Y (RF)	0.01860	0.00100	0.01588	0.32940	0.25920	0.33998	2.50740	1.20000	1.86972
sg13g2_inv_2	A->Y (RF)	0.01860	0.00100	0.01703	0.32940	0.12960	0.33872	2.50740	0.60000	1.86332
sg13g2_inv_1	A->Y (RF)	0.01860	0.00100	0.01994	0.32940	0.06480	0.33959	2.50740	0.30000	1.86389

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	0.02561	0.32940	1.03680	0.03608	2.50740	4.80000	0.10683
sg13g2_inv_8	A	0.01860	0.00100	0.01283	0.32940	0.51840	0.01801	2.50740	2.40000	0.05391
sg13g2_inv_4	A	0.01860	0.00100	0.00646	0.32940	0.25920	0.00898	2.50740	1.20000	0.02700
sg13g2_inv_2	A	0.01860	0.00100	0.00327	0.32940	0.12960	0.00446	2.50740	0.60000	0.01324
sg13g2_inv_1	A	0.01860	0.00100	0.00191	0.32940	0.06480	0.00242	2.50740	0.30000	0.00677

Internal switching power(pJ) to Y falling:

CHN	T .		Power(pJ)							
Cell Name Ir	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_16	A	0.01860	0.00100	0.02323	0.32940	1.03680	0.03615	2.50740	4.80000	0.10557
sg13g2_inv_8	A	0.01860	0.00100	0.01164	0.32940	0.51840	0.01719	2.50740	2.40000	0.05203
sg13g2_inv_4	A	0.01860	0.00100	0.00588	0.32940	0.25920	0.00889	2.50740	1.20000	0.02621
sg13g2_inv_2	A	0.01860	0.00100	0.00310	0.32940	0.12960	0.00450	2.50740	0.60000	0.01313
sg13g2_inv_1	A	0.01860	0.00100	0.00202	0.32940	0.06480	0.00261	2.50740	0.30000	0.00685





sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.01586	0.01532	2.40000

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

Delay Information Delay(ns) to Z rising:

C. II N Timing		Delay(ns)								
Cell Name A	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_8	A->Z (FR)	0.01860	0.01996	0.02428	0.32940	0.53736	0.55254	2.50740	2.41896	2.86843
	TE_B->Z (RR)	0.01860	0.01996	0.07208	0.32940	0.53736	0.16790	2.50740	2.41896	0.35204
	TE_B->Z (FR)	0.01860	0.01996	0.03247	0.32940	0.53736	0.52578	2.50740	2.41896	2.59758

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	0.03000	0.02133	0.32940	0.54740	0.45712	2.50740	2.42900	2.41382

Internal switching power(pJ) to Z rising:

Call Name	T4		Power(pJ)								
Cell Name	Input		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
221222 sinum 0	A	0.01860	0.01996	0.01292	0.32940	0.53736	0.01828	2.50740	2.41896	0.04319	
sg13g2_einvn_8	TE_B	0.01860	0.01996	0.04228	0.32940	0.53736	0.03757	2.50740	2.41896	0.03548	

Internal switching power(pJ) to Z falling:

Call Name	Cell Name Input Power(pJ)									
Cen Name	Input						Slew(ns)	Load(pf)	Last	
sg13g2_einvn_8	A	0.01860	0.03000	0.01268	0.32940	0.54740	0.01873	2.50740	2.42900	0.04018

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	-0.02899	0.32940	-0.03310	2.50740	-0.02066		

Passive power(pJ) for TE_B falling:

Cell Name	Power(pJ)						
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_einvn_8	0.01860	0.02899	0.32940	0.03310	2.50740	0.05196	

KEEPSTATE



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

Truth Table

INPUT	OUTPUT
SH	SH
x	-

Footprint

Cell Name	Area
sg13g2_sighold	9.07200

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)	
Cell Name	SH	SH	
sg13g2_sighold	0.01405	-	

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_sighold	333.84800	875.32400	1416.80000			

Passive Power Information

Passive power(pJ) for SH rising :

Call Name	Power(pJ)					
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	0.00620	0.32940	0.01119	2.50740	0.05336

Passive power(pJ) for SH falling:

Call Name	Power(pJ)					
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	0.00524	0.32940	0.00869	2.50740	0.05379

MUX2x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00273	0.00283	0.00497	0.60000
sg13g2_mux2_1	0.00273	0.00285	0.00498	0.30000

Cell Name	Leakage(pW)				
	Min.	Avg	Max.		
sg13g2_mux2_2	1618.97000	2163.24000	2560.33000		
sg13g2_mux2_1	1203.82000	1680.13000	2354.83000		

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	0.08419	0.32940	0.12960	0.38663	2.50740	0.60000	1.28875
sg13g2_mux2_2	A1->X (RR)	0.01860	0.00100	0.08464	0.32940	0.12960	0.38992	2.50740	0.60000	1.29680
	S->X (-R)	0.01860	0.00100	0.09349	0.32940	0.12960	0.38496	2.50740	0.60000	1.28660
	A0->X (RR)	0.01860	0.00100	0.07864	0.32940	0.06480	0.35699	2.50740	0.30000	1.21902
sg13g2_mux2_1	A1->X (RR)	0.01860	0.00100	0.07435	0.32940	0.06480	0.35629	2.50740	0.30000	1.22904
	S->X (-R)	0.01860	0.00100	0.08209	0.32940	0.06480	0.35493	2.50740	0.30000	1.22318

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	0.11522	0.32940	0.12960	0.42616	2.50740	0.60000	1.35392
sg13g2_mux2_2	A1->X (FF)	0.01860	0.00100	0.11492	0.32940	0.12960	0.42643	2.50740	0.60000	1.35591
	S->X (-F)	0.01860	0.00100	0.12772	0.32940	0.12960	0.40959	2.50740	0.60000	1.28910
	A0->X (FF)	0.01860	0.00100	0.09584	0.32940	0.06480	0.38030	2.50740	0.30000	1.26975
sg13g2_mux2_1	A1->X (FF)	0.01860	0.00100	0.09573	0.32940	0.06480	0.38077	2.50740	0.30000	1.27193
	S->X (-F)	0.01860	0.00100	0.10796	0.32940	0.06480	0.36765	2.50740	0.30000	1.21358

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	
12-22 2	S->X (RR)	(!A0 * A1)	0.01860	0.00100	0.09349	0.32940	0.12960	0.38496	2.50740	0.60000	1.28660	
sg13g2_mux2_2	S->X (FR)	(A0 * !A1)	0.01860	0.00100	0.12838	0.32940	0.12960	0.40697	2.50740	0.60000	1.24832	
	S->X (RR)	(!A0 * A1)	0.01860	0.00100	0.08209	0.32940	0.06480	0.35493	2.50740	0.30000	1.22318	
sg13g2_mux2_1	S->X (FR)	(A0 * !A1)	0.01860	0.00100	0.11679	0.32940	0.06480	0.38559	2.50740	0.30000	1.22309	

Delay(ns) to X falling (conditional):

Call 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		
221222 2222 2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	0.12772	0.32940	0.12960	0.40959	2.50740	0.60000	1.28910		
sg13g2_mux2_2	S->X (RF)	(A0 * !A1)	0.01860	0.00100	0.16022	0.32940	0.12960	0.42841	2.50740	0.60000	1.17594		
	S->X (FF)	(!A0 * A1)	0.01860	0.00100	0.10796	0.32940	0.06480	0.36765	2.50740	0.30000	1.21358		
sg13g2_mux2_1	S->X (RF)	(A0 * !A1)	0.01860	0.00100	0.14035	0.32940	0.06480	0.39311	2.50740	0.30000	1.13903		

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	0.01616	0.32940	0.12960	0.01686	2.50740	0.60000	0.03042
sg13g2_mux2_2	A1	0.01860	0.00100	0.01621	0.32940	0.12960	0.01705	2.50740	0.60000	0.03063
	S	0.01860	0.00100	0.01692	0.32940	0.12960	0.01756	2.50740	0.60000	0.02988
	A0	0.01860	0.00100	0.00990	0.32940	0.06480	0.01042	2.50740	0.30000	0.02391
sg13g2_mux2_1	A1	0.01860	0.00100	0.01120	0.32940	0.06480	0.01197	2.50740	0.30000	0.02608
	S	0.01860	0.00100	0.01198	0.32940	0.06480	0.01247	2.50740	0.30000	0.02524

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	0.01660	0.32940	0.12960	0.01673	2.50740	0.60000	0.03123
sg13g2_mux2_2	A1	0.01860	0.00100	0.01650	0.32940	0.12960	0.01661	2.50740	0.60000	0.03130
	S	0.01860	0.00100	0.01648	0.32940	0.12960	0.01663	2.50740	0.60000	0.02991
	A0	0.01860	0.00100	0.01106	0.32940	0.06480	0.01200	2.50740	0.30000	0.02650
sg13g2_mux2_1	A1	0.01860	0.00100	0.01097	0.32940	0.06480	0.01187	2.50740	0.30000	0.02650
	S	0.01860	0.00100	0.01129	0.32940	0.06480	0.01185	2.50740	0.30000	0.02521

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

Cell Name	Immut	When	Power(pJ)									
Cell Name	Input	When	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	0.01670	0.32940	0.12960	0.01734	2.50740	0.60000	0.01724	
sg13g2_mux2_2	S	(!A0 * A1)	0.01860	0.00100	0.01692	0.32940	0.12960	0.01756	2.50740	0.60000	0.02988	
12-22 1	s	(A0 * !A1)	0.01860	0.00100	0.01182	0.32940	0.06480	0.01216	2.50740	0.30000	0.01212	
sg13g2_mux2_1	S	(!A0 * A1)	0.01860	0.00100	0.01198	0.32940	0.06480	0.01247	2.50740	0.30000	0.02524	

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	
201202 may 2	S	(A0 * !A1)	0.01860	0.00100	0.01770	0.32940	0.12960	0.01765	2.50740	0.60000	0.01800	
sg13g2_mux2_2	S	(!A0 * A1)	0.01860	0.00100	0.01648	0.32940	0.12960	0.01663	2.50740	0.60000	0.02991	
12-22 1	S	(A0 * !A1)	0.01860	0.00100	0.01243	0.32940	0.06480	0.01265	2.50740	0.30000	0.01291	
sg13g2_mux2_1	S	(!A0 * A1)	0.01860	0.00100	0.01129	0.32940	0.06480	0.01185	2.50740	0.30000	0.02521	

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	0.00464	0.32940	0.00537	2.50740	0.01839					
sg13g2_mux2_1	0.01860	0.00465	0.32940	0.00538	2.50740	0.01839					

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	0.00502	0.32940	0.00581	2.50740	0.01931					
sg13g2_mux2_1	0.01860	0.00502	0.32940	0.00581	2.50740	0.01930					

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

Call Name	**/1			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(A0 * A1)	0.01860	0.00452	0.32940	0.00509	2.50740	0.01828
sg13g2_mux2_2	(!A0 * !A1)	0.01860	0.00464	0.32940	0.00537	2.50740	0.01839
sg13g2_mux2_1	(A0 * A1)	0.01860	0.00452	0.32940	0.00510	2.50740	0.01829
	(!A0 * !A1)	0.01860	0.00465	0.32940	0.00538	2.50740	0.01839

Passive power(pJ) for S falling (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	0.00460	0.32940	0.00554	2.50740	0.01890
sg13g2_mux2_2	(!A0 * !A1)	0.01860	0.00502	0.32940	0.00581	2.50740	0.01931
12.2	(A0 * A1)	0.01860	0.00459	0.32940	0.00554	2.50740	0.01889
sg13g2_mux2_1	(!A0 * !A1)	0.01860	0.00502	0.32940	0.00581	2.50740	0.01930

MUX4



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

Truth Table

		INP	UT			OUTPUT
A0	A1	A2	A3	SO	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	х	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 C	ap(pf)			Max Cap(pf)
	A0	A1	A2	A3	S0	S1	X
sg13g2_mux4_1	0.00275	0.00273	0.00275	0.00281	0.00816	0.00494	0.30000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_mux4_1	1583.43000	3711.46000	5416.67000					

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	0.13784	0.32940	0.06480	0.43706	2.50740	0.30000	1.39086
	A1->X (RR)	0.01860	0.00100	0.13262	0.32940	0.06480	0.43466	2.50740	0.30000	1.38624
	A2->X (RR)	0.01860	0.00100	0.14207	0.32940	0.06480	0.44727	2.50740	0.30000	1.41124
sg13g2_mux4_1	A3->X (RR)	0.01860	0.00100	0.13928	0.32940	0.06480	0.44527	2.50740	0.30000	1.40981
	S0->X (-R)	0.01860	0.00100	0.12125	0.32940	0.06480	0.43357	2.50740	0.30000	1.38851
	S1->X (-R)	0.01860	0.00100	0.06957	0.32940	0.06480	0.35175	2.50740	0.30000	1.21855

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	0.15702	0.32940	0.06480	0.44411	2.50740	0.30000	1.30886
	A1->X (FF)	0.01860	0.00100	0.15910	0.32940	0.06480	0.44484	2.50740	0.30000	1.30993
	A2->X (FF)	0.01860	0.00100	0.16815	0.32940	0.06480	0.45945	2.50740	0.30000	1.33566
sg13g2_mux4_1	A3->X (FF)	0.01860	0.00100	0.16838	0.32940	0.06480	0.45866	2.50740	0.30000	1.33462
_	S0->X (-F)	0.01860	0.00100	0.14541	0.32940	0.06480	0.45139	2.50740	0.30000	1.35483
	S1->X (-F)	0.01860	0.00100	0.08342	0.32940	0.06480	0.35932	2.50740	0.30000	1.19842

Delay(ns) to X rising (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
	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	0.12125	0.32940	0.06480	0.43357	2.50740	0.30000	1.38851
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	0.11327	0.32940	0.06480	0.41892	2.50740	0.30000	1.35854
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	0.17631	0.32940	0.06480	0.47435	2.50740	0.30000	1.36883
201302 mm-4 1	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	0.17045	0.32940	0.06480	0.46603	2.50740	0.30000	1.35663
sg13g2_mux4_1	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	0.06957	0.32940	0.06480	0.35175	2.50740	0.30000	1.21855
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	0.06941	0.32940	0.06480	0.35166	2.50740	0.30000	1.21850
_	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	0.09280	0.32940	0.06480	0.37348	2.50740	0.30000	1.21108
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	0.09246	0.32940	0.06480	0.37296	2.50740	0.30000	1.21130

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	0.14541	0.32940	0.06480	0.45139	2.50740	0.30000	1.35483
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	0.13140	0.32940	0.06480	0.43109	2.50740	0.30000	1.31764
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	0.19396	0.32940	0.06480	0.48400	2.50740	0.30000	1.28167
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	0.18300	0.32940	0.06480	0.47007	2.50740	0.30000	1.26323
sg13g2_mux4_1	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	0.08342	0.32940	0.06480	0.35932	2.50740	0.30000	1.19842
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	0.08319	0.32940	0.06480	0.35922	2.50740	0.30000	1.19833
_	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	0.10307	0.32940	0.06480	0.37696	2.50740	0.30000	1.12977
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	0.10324	0.32940	0.06480	0.37702	2.50740	0.30000	1.12980

Internal switching power(pJ) to X rising:

CHN	T .		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	0.02342	0.32940	0.06480	0.02354	2.50740	0.30000	0.03412			
	A1	0.01860	0.00100	0.01466	0.32940	0.06480	0.01485	2.50740	0.30000	0.02535			
	A2	0.01860	0.00100	0.01680	0.32940	0.06480	0.01696	2.50740	0.30000	0.02739			
sg13g2_mux4_1	A3	0.01860	0.00100	0.02261	0.32940	0.06480	0.02268	2.50740	0.30000	0.03316			
	S0	0.01860	0.00100	0.01155	0.32940	0.06480	0.01224	2.50740	0.30000	0.02448			
	S1	0.01860	0.00100	0.00604	0.32940	0.06480	0.00687	2.50740	0.30000	0.01802			

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	0.01594	0.32940	0.06480	0.01593	2.50740	0.30000	0.02732			
	A1	0.01860	0.00100	0.01630	0.32940	0.06480	0.01636	2.50740	0.30000	0.02779			
12-24 1	A2	0.01860	0.00100	0.01682	0.32940	0.06480	0.01674	2.50740	0.30000	0.02797			
sg13g2_mux4_1	A3	0.01860	0.00100	0.02369	0.32940	0.06480	0.02369	2.50740	0.30000	0.03500			
	SO	0.01860	0.00100	0.01070	0.32940	0.06480	0.01131	2.50740	0.30000	0.02425			
	S1	0.01860	0.00100	0.00597	0.32940	0.06480	0.00692	2.50740	0.30000	0.01878			

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

C-II N	T4	XX/1					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	0.01662	0.32940	0.06480	0.01349	2.50740	0.30000	0.00049
	SO	(A0 * !A1 * !S1)	0.01860	0.00100	0.01658	0.32940	0.06480	0.01351	2.50740	0.30000	0.00023
	SO	(!A2 * A3 * S1)	0.01860	0.00100	0.02067	0.32940	0.06480	0.02257	2.50740	0.30000	0.02178
12.2	SO	(!A0 * A1 * !S1)	0.01860	0.00100	0.01155	0.32940	0.06480	0.01224	2.50740	0.30000	0.02448
sg13g2_mux4_1	S1	(A1 * !A3 * S0)	0.01860	0.00100	0.00917	0.32940	0.06480	0.01073	2.50740	0.30000	0.01908
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	0.00956	0.32940	0.06480	0.01109	2.50740	0.30000	0.01985
	S1	(!A1 * A3 * S0)	0.01860	0.00100	0.00604	0.32940	0.06480	0.00687	2.50740	0.30000	0.01802
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	0.00550	0.32940	0.06480	0.00635	2.50740	0.30000	0.01751

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

CHN	T 4	***]	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	0.02552	0.32940	0.06480	0.02666	2.50740	0.30000	0.01431
	SO	(A0 * !A1 * !S1)	0.01860	0.00100	0.02525	0.32940	0.06480	0.02711	2.50740	0.30000	0.01450
	SO	(!A2 * A3 * S1)	0.01860	0.00100	0.01125	0.32940	0.06480	0.01068	2.50740	0.30000	0.02404
	SO	(!A0 * A1 * !S1)	0.01860	0.00100	0.01070	0.32940	0.06480	0.01131	2.50740	0.30000	0.02425
sg13g2_mux4_1	S1	(A1 * !A3 * S0)	0.01860	0.00100	0.00968	0.32940	0.06480	0.01116	2.50740	0.30000	0.01983
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	0.00969	0.32940	0.06480	0.01117	2.50740	0.30000	0.01983
	S1	(!A1 * A3 * S0)	0.01860	0.00100	0.00597	0.32940	0.06480	0.00692	2.50740	0.30000	0.01878
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	0.00566	0.32940	0.06480	0.00663	2.50740	0.30000	0.01845

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	0.01017	0.32940	0.01175	2.50740	0.04092		

Passive power(pJ) for S0 falling :

Call Name	Power(pJ)					
Cell Name	Slew(ns)	First	Mid	Slew(ns)	Last	
sg13g2_mux4_1	0.01860	0.01424	0.32940	0.01811	2.50740	0.04831

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

C.II N	When	Power(pJ)						
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(A2 * A3 * S1)	0.01860	0.00958	0.32940	0.01137	2.50740	0.04091	
12.2	(A0 * A1 * !S1)	0.01860	0.01017	0.32940	0.01175	2.50740	0.04092	
sg13g2_mux4_1	(!A2 * !A3 * S1)	0.01860	0.00983	0.32940	0.01168	2.50740	0.04134	
	(!A0 * !A1 * !S1)	0.01860	0.01104	0.32940	0.01267	2.50740	0.04178	

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

C-II N	When		Power(pJ)						
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(A2 * A3 * S1)	0.01860	0.01272	0.32940	0.01567	2.50740	0.04632		
12.2	(A0 * A1 * !S1)	0.01860	0.01424	0.32940	0.01811	2.50740	0.04831		
sg13g2_mux4_1	(!A2 * !A3 * S1)	0.01860	0.01509	0.32940	0.01572	2.50740	0.03215		
	(!A0 * !A1 * !S1)	0.01860	0.01959	0.32940	0.02432	2.50740	0.04077		

Passive power(pJ) for S1 rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	s) First Slew(ns) Mid Slew(ns)					
sg13g2_mux4_1	0.01860	0.00500	0.32940	0.00621	2.50740	0.02258	

Passive power(pJ) for S1 falling:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	Slew(ns) First Slew(ns) Mid Slew(ns) Las					
sg13g2_mux4_1	0.01860	0.00484	0.32940	0.00628	2.50740	0.02309	

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

Call Name	When		Power(pJ)						
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(A1 * A3 * S0)	0.01860	0.00375	0.32940	0.00494	2.50740	0.02118		
12.2	(A0 * A2 * !S0)	0.01860	0.00374	0.32940	0.00494	2.50740	0.02119		
sg13g2_mux4_1	(!A1 * !A3 * S0)	0.01860	0.00500	0.32940	0.00621	2.50740	0.02258		
	(!A0 * !A2 * !S0)	0.01860	0.00506	0.32940	0.00630	2.50740	0.02260		

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

Call Name	When	Power(pJ)						
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(A1 * A3 * S0)	0.01860	0.00368	0.32940	0.00522	2.50740	0.02197	
12.2	(A0 * A2 * !S0)	0.01860	0.00368	0.32940	0.00522	2.50740	0.02195	
sg13g2_mux4_1	(!A1 * !A3 * S0)	0.01860	0.00481	0.32940	0.00624	2.50740	0.02335	
	(!A0 * !A2 * !S0)	0.01860	0.00484	0.32940	0.00628	2.50740	0.02309	

NAND2B1



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

Truth Table

INPUT		OUTPUT
A_N	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	0.00222	0.00298	0.30000

Call Name		Leakage(pW)					
Cell Name	Min.	Avg	Max.				
sg13g2_nand2b_1	330.21900	860.18800	1660.51000				

Delay Information Delay(ns) to Y rising:

Cell Name	Timing	ning Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
40.4	A_N->Y (RR)	0.01860	0.00100	0.05343	0.32940	0.06480	0.31848	2.50740	0.30000	1.17877
sg13g2_nand2b_1	B->Y (FR)	0.01860	0.00100	0.02613	0.32940	0.06480	0.36826	2.50740	0.30000	1.99608

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	
10.0	A_N->Y (FF)	0.01860	0.00100	0.06248	0.32940	0.06480	0.41575	2.50740	0.30000	1.58983	
sg13g2_nand2b_1	B->Y (RF)	0.01860	0.00100	0.03768	0.32940	0.06480	0.43848	2.50740	0.30000	2.23273	

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	0.00275	0.32940	0.06480	0.00292	2.50740	0.30000	0.00217
sg13g2_nand2b_1	В	0.01860	0.00100	0.00265	0.32940	0.06480	0.00288	2.50740	0.30000	0.00680

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	0.00507	0.32940	0.06480	0.00527	2.50740	0.30000	0.00441
sg13g2_nand2b_1	В	0.01860	0.00100	0.00516	0.32940	0.06480	0.00529	2.50740	0.30000	0.00824

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	0.00475	0.32940	0.00566	2.50740	0.01906			

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	0.00293	0.32940	0.00392	2.50740	0.01755		

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

Call Name	Where			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	!B	0.01860	0.00475	0.32940	0.00566	2.50740	0.01906

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	0.00293	0.32940	0.00392	2.50740	0.01755		

NAND2B2



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

Truth Table

INPU	J T	OUTPUT
A_N	В	Y
x	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	0.00217	0.00549	0.60000

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_nand2b_2	585.22700	1357.36000	3178.70000			

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	
12.2	A_N->Y (RR)	0.01860	0.00100	0.07034	0.32940	0.12960	0.35744	2.50740	0.60000	1.25859	
sg13g2_nand2b_2	B->Y (FR)	0.01860	0.00100	0.01989	0.32940	0.12960	0.36266	2.50740	0.60000	1.98837	

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	0.08307	0.32940	0.12960	0.47486	2.50740	0.60000	1.74817
sg13g2_nand2b_2	B->Y (RF)	0.01860	0.00100	0.02709	0.32940	0.12960	0.46675	2.50740	0.60000	2.45913

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	0.00495	0.32940	0.12960	0.00505	2.50740	0.60000	0.00447
sg13g2_nand2b_2	В	0.01860	0.00100	0.00364	0.32940	0.12960	0.00471	2.50740	0.60000	0.01209

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	
12.2121. 2	A_N	0.01860	0.00100	0.01056	0.32940	0.12960	0.01155	2.50740	0.60000	0.01123	
sg13g2_nand2b_2	В	0.01860	0.00100	0.00563	0.32940	0.12960	0.00671	2.50740	0.60000	0.01304	

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	0.00817	0.32940	0.00867	2.50740	0.02100			

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	0.00727	0.32940	0.00785	2.50740	0.02062			

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

Call Name	Where	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_nand2b_2	!B	0.01860	0.00817	0.32940	0.00867	2.50740	0.02100	

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	0.00727	0.32940	0.00785	2.50740	0.02062	

NAND2x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00547	0.00563	0.60000	
sg13g2_nand2_1	0.00282	0.00294	0.30000	

Call Name		Leakage(pW)					
Cell Name	Min.	Avg	Max.				
sg13g2_nand2_2	155.98400	1003.02000	3039.74000				
sg13g2_nand2_1	79.50780	505.77400	1521.50000				

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	0.02008	0.32940	0.12960	0.36300	2.50740	0.60000	1.99014		
	B->Y (FR)	0.01860	0.00100	0.02449	0.32940	0.12960	0.36800	2.50740	0.60000	1.99724		
12-2	A->Y (FR)	0.01860	0.00100	0.02247	0.32940	0.06480	0.36299	2.50740	0.30000	1.98886		
sg13g2_nand2_1 -	B->Y (FR)	0.01860	0.00100	0.02651	0.32940	0.06480	0.36765	2.50740	0.30000	1.99444		

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		
12-212 2	A->Y (RF)	0.01860	0.00100	0.02740	0.32940	0.12960	0.46629	2.50740	0.60000	2.45874		
sg13g2_nand2_2	B->Y (RF)	0.01860	0.00100	0.03349	0.32940	0.12960	0.44824	2.50740	0.60000	2.28777		
12-212 1	A->Y (RF)	0.01860	0.00100	0.03002	0.32940	0.06480	0.45422	2.50740	0.30000	2.39615		
sg13g2_nand2_1 -	B->Y (RF)	0.01860	0.00100	0.03518	0.32940	0.06480	0.43544	2.50740	0.30000	2.22774		

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		
12-212 2	A	0.01860	0.00100	0.00368	0.32940	0.12960	0.00472	2.50740	0.60000	0.01178		
sg13g2_nand2_2	В	0.01860	0.00100	0.00499	0.32940	0.12960	0.00545	2.50740	0.60000	0.01326		
12-212 1	A	0.01860	0.00100	0.00211	0.32940	0.06480	0.00257	2.50740	0.30000	0.00623		
sg13g2_nand2_1	В	0.01860	0.00100	0.00249	0.32940	0.06480	0.00270	2.50740	0.30000	0.00669		

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		
aa12a2 mand2 2	A	0.01860	0.00100	0.00565	0.32940	0.12960	0.00664	2.50740	0.60000	0.01310		
sg13g2_nand2_2 —	В	0.01860	0.00100	0.00978	0.32940	0.12960	0.01021	2.50740	0.60000	0.01601		
221222 mand2 1	A	0.01860	0.00100	0.00299	0.32940	0.06480	0.00340	2.50740	0.30000	0.00688		
sg13g2_nand2_1	В	0.01860	0.00100	0.00513	0.32940	0.06480	0.00527	2.50740	0.30000	0.00836		

NAND3B1



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

Truth Table

INI	PUT	Γ	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	0.00220	0.00293	0.00295	0.30000

Call Name		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_nand3b_1	221.53200	766.47900	2421.19000						

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		
	A_N->Y (RR)	0.01860	0.00100	0.05649	0.32940	0.06480	0.32020	2.50740	0.30000	1.17810		
sg13g2_nand3b_1	B->Y (FR)	0.01860	0.00100	0.02942	0.32940	0.06480	0.37134	2.50740	0.30000	1.99802		
	C->Y (FR)	0.01860	0.00100	0.03199	0.32940	0.06480	0.37542	2.50740	0.30000	2.00316		

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	0.07592	0.32940	0.06480	0.54034	2.50740	0.30000	2.12598	
	B->Y (RF)	0.01860	0.00100	0.05588	0.32940	0.06480	0.56623	2.50740	0.30000	2.78987	
	C->Y (RF)	0.01860	0.00100	0.06025	0.32940	0.06480	0.54785	2.50740	0.30000	2.59915	

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_N	0.01860	0.00100	0.00279	0.32940	0.06480	0.00287	2.50740	0.30000	0.00217			
sg13g2_nand3b_1	В	0.01860	0.00100	0.00293	0.32940	0.06480	0.00309	2.50740	0.30000	0.00640			
	С	0.01860	0.00100	0.00326	0.32940	0.06480	0.00330	2.50740	0.30000	0.00686			

Internal switching power(pJ) to Y falling:

Cell Name	T4		Power(pJ)										
Cell Name	Input		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A_N	0.01860	0.00100	0.00698	0.32940	0.06480	0.00704	2.50740	0.30000	0.00625			
sg13g2_nand3b_1	В	0.01860	0.00100	0.00678	0.32940	0.06480	0.00697	2.50740	0.30000	0.00902			
	C	0.01860	0.00100	0.00867	0.32940	0.06480	0.00866	2.50740	0.30000	0.01092			

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	0.00490	0.32940	0.00582	2.50740	0.01921		

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	0.00265	0.32940	0.00363	2.50740	0.01728		

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	0.00490	0.32940	0.00582	2.50740	0.01921		

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	0.00265	0.32940	0.00363	2.50740	0.01728		

NAND3



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00281	0.00296	0.00294	0.30000	

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_nand3_1	79.68280	412.09900	2282.24000				

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_nand3_1	A->Y (FR)	0.01860	0.00100	0.02558	0.32940	0.06480	0.36615	2.50740	0.30000	1.99170
	B->Y (FR)	0.01860	0.00100	0.02977	0.32940	0.06480	0.37103	2.50740	0.30000	1.99751
	C->Y (FR)	0.01860	0.00100	0.03185	0.32940	0.06480	0.37509	2.50740	0.30000	2.00219

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_nand3_1	A->Y (RF)	0.01860	0.00100	0.04366	0.32940	0.06480	0.57146	2.50740	0.30000	2.91387
	B->Y (RF)	0.01860	0.00100	0.05313	0.32940	0.06480	0.56331	2.50740	0.30000	2.78475
	C->Y (RF)	0.01860	0.00100	0.05735	0.32940	0.06480	0.54460	2.50740	0.30000	2.59441

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	0.00232	0.32940	0.06480	0.00268	2.50740	0.30000	0.00612	
sg13g2_nand3_1	В	0.01860	0.00100	0.00270	0.32940	0.06480	0.00284	2.50740	0.30000	0.00632	
	С	0.01860	0.00100	0.00306	0.32940	0.06480	0.00309	2.50740	0.30000	0.00664	

Internal switching power(pJ) to Y falling:

Call Name Immut		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	0.00467	0.32940	0.06480	0.00511	2.50740	0.30000	0.00770	
sg13g2_nand3_1	В	0.01860	0.00100	0.00684	0.32940	0.06480	0.00690	2.50740	0.30000	0.00910	
	С	0.01860	0.00100	0.00867	0.32940	0.06480	0.00874	2.50740	0.30000	0.01087	

NAND4



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00280	0.00296	0.00298	0.00296	0.30000

Coll Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_nand4_1	82.16050	314.81600	3043.08000				

Delay Information Delay(ns) to Y rising:

Call Name	C U.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 (FR)	0.01860	0.00100	0.02723	0.32940	0.06480	0.36792	2.50740	0.30000	1.99203	
	B->Y (FR)	0.01860	0.00100	0.03158	0.32940	0.06480	0.37286	2.50740	0.30000	1.99856	
sg13g2_nand4_1	C->Y (FR)	0.01860	0.00100	0.03401	0.32940	0.06480	0.37722	2.50740	0.30000	2.00483	
	D->Y (FR)	0.01860	0.00100	0.03486	0.32940	0.06480	0.38092	2.50740	0.30000	2.00943	

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	0.05614	0.32940	0.06480	0.69053	2.50740	0.30000	3.41986		
	B->Y (RF)	0.01860	0.00100	0.07016	0.32940	0.06480	0.69021	2.50740	0.30000	3.32385		
sg13g2_nand4_1	C->Y (RF)	0.01860	0.00100	0.07839	0.32940	0.06480	0.67928	2.50740	0.30000	3.16346		
	D->Y (RF)	0.01860	0.00100	0.08256	0.32940	0.06480	0.67021	2.50740	0.30000	3.02427		

Internal switching power(pJ) to Y rising:

Call Name	Input	Power(pJ)										
Cell Name		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
	A	0.01860	0.00100	0.00240	0.32940	0.06480	0.00277	2.50740	0.30000	0.00584		
	В	0.01860	0.00100	0.00280	0.32940	0.06480	0.00291	2.50740	0.30000	0.00603		
sg13g2_nand4_1	C	0.01860	0.00100	0.00320	0.32940	0.06480	0.00317	2.50740	0.30000	0.00634		
	D	0.01860	0.00100	0.00350	0.32940	0.06480	0.00345	2.50740	0.30000	0.00654		

Internal switching power(pJ) to Y 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	
	A	0.01860	0.00100	0.00560	0.32940	0.06480	0.00579	2.50740	0.30000	0.00870	
	В	0.01860	0.00100	0.00776	0.32940	0.06480	0.00775	2.50740	0.30000	0.00996	
sg13g2_nand4_1	C	0.01860	0.00100	0.00964	0.32940	0.06480	0.00952	2.50740	0.30000	0.01174	
	D	0.01860	0.00100	0.01144	0.32940	0.06480	0.01127	2.50740	0.30000	0.01347	

NOR2Bx



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00555	0.00265	0.60000
sg13g2_nor2b_1	0.00286	0.00224	0.30000

Call Name		Leakage(pW)					
Cell Name	Min.	Avg	Max.				
sg13g2_nor2b_2	982.75100	1706.23000	2233.89000				
sg13g2_nor2b_1	546.90000	999.46000	1348.17000				

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
12-22h 2	A->Y (FR)	0.01860	0.00100	0.03029	0.32940	0.12960	0.55159	2.50740	0.60000	2.85782
sg13g2_nor2b_2	B_N->Y (RR)	0.01860	0.00100	0.07985	0.32940	0.12960	0.55437	2.50740	0.60000	2.14521
12-22h 1	A->Y (FR)	0.01860	0.00100	0.03519	0.32940	0.06480	0.55297	2.50740	0.30000	2.86183
sg13g2_nor2b_1	B_N->Y (RR)	0.01860	0.00100	0.07300	0.32940	0.06480	0.52937	2.50740	0.30000	2.08791

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
221222 mar2h 2	A->Y (RF)	0.01860	0.00100	0.02006	0.32940	0.12960	0.34977	2.50740	0.60000	1.90784
sg13g2_nor2b_2	B_N->Y (FF)	0.01860	0.00100	0.07023	0.32940	0.12960	0.33726	2.50740	0.60000	1.15930
12-22h 1	A->Y (RF)	0.01860	0.00100	0.02213	0.32940	0.06480	0.34161	2.50740	0.30000	1.86399
sg13g2_nor2b_1	B_N->Y (FF)	0.01860	0.00100	0.05956	0.32940	0.06480	0.30413	2.50740	0.30000	1.07727

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	0.00526	0.32940	0.12960	0.00621	2.50740	0.60000	0.01326
sg13g2_nor2b_2	B_N	0.01860	0.00100	0.01159	0.32940	0.12960	0.01196	2.50740	0.60000	0.01096
12-22h 1	A	0.01860	0.00100	0.00266	0.32940	0.06480	0.00304	2.50740	0.30000	0.00692
sg13g2_nor2b_1	B_N	0.01860	0.00100	0.00601	0.32940	0.06480	0.00606	2.50740	0.30000	0.00550

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	0.00380	0.32940	0.12960	0.00495	2.50740	0.60000	0.01231
sg13g2_nor2b_2	B_N	0.01860	0.00100	0.00567	0.32940	0.12960	0.00539	2.50740	0.60000	0.00512
12-22h 1	A	0.01860	0.00100	0.00244	0.32940	0.06480	0.00295	2.50740	0.30000	0.00654
sg13g2_nor2b_1	B_N	0.01860	0.00100	0.00308	0.32940	0.06480	0.00291	2.50740	0.30000	0.00245

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	0.00782	0.32940	0.00858	2.50740	0.02394			
sg13g2_nor2b_1	0.01860	0.00451	0.32940	0.00531	2.50740	0.01852			

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	0.00773	0.32940	0.00858	2.50740	0.02414			
sg13g2_nor2b_1	0.01860	0.00456	0.32940	0.00550	2.50740	0.01887			

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	0.00782	0.32940	0.00858	2.50740	0.02394	
sg13g2_nor2b_1	A	0.01860	0.00451	0.32940	0.00531	2.50740	0.01852	

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	0.00773	0.32940	0.00858	2.50740	0.02414	
sg13g2_nor2b_1	A	0.01860	0.00456	0.32940	0.00550	2.50740	0.01887	

NOR2x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00572	0.00549	0.30000
sg13g2_nor2_1	0.00299	0.00286	0.30000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_nor2_2	815.92400	1290.26000	1965.37000				
sg13g2_nor2_1	407.93500	645.12500	982.69500				

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	0.03909	0.32940	0.06480	0.33008	2.50740	0.30000	1.63824
	B->Y (FR)	0.01860	0.00100	0.03061	0.32940	0.06480	0.35147	2.50740	0.30000	1.84576
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	0.04178	0.32940	0.06480	0.52738	2.50740	0.30000	2.61320
	B->Y (FR)	0.01860	0.00100	0.03534	0.32940	0.06480	0.55271	2.50740	0.30000	2.86040

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	0.02407	0.32940	0.06480	0.23894	2.50740	0.30000	1.25865
	B->Y (RF)	0.01860	0.00100	0.01976	0.32940	0.06480	0.23200	2.50740	0.30000	1.24795
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	0.02577	0.32940	0.06480	0.34632	2.50740	0.30000	1.87045
	B->Y (RF)	0.01860	0.00100	0.02221	0.32940	0.06480	0.34161	2.50740	0.30000	1.86430

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	0.01077	0.32940	0.06480	0.01102	2.50740	0.30000	0.02115	
sg13g2_nor2_2	В	0.01860	0.00100	0.00537	0.32940	0.06480	0.00655	2.50740	0.30000	0.01831	
sg13g2_nor2_1	A	0.01860	0.00100	0.00533	0.32940	0.06480	0.00536	2.50740	0.30000	0.00863	
	В	0.01860	0.00100	0.00267	0.32940	0.06480	0.00308	2.50740	0.30000	0.00677	

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	0.00543	0.32940	0.06480	0.00624	2.50740	0.30000	0.01723	
sg13g2_nor2_2	В	0.01860	0.00100	0.00372	0.32940	0.06480	0.00531	2.50740	0.30000	0.01570	
sg13g2_nor2_1	A	0.01860	0.00100	0.00267	0.32940	0.06480	0.00284	2.50740	0.30000	0.00666	
	В	0.01860	0.00100	0.00243	0.32940	0.06480	0.00294	2.50740	0.30000	0.00649	

NOR3x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00567	0.00564	0.00545	0.60000
sg13g2_nor3_1	0.00297	0.00297	0.00284	0.30000

Cell Name	Leakage(pW)						
	Min.	Avg	Max.				
sg13g2_nor3_2	762.67100	1487.96000	2547.72000				
sg13g2_nor3_1	385.09800	750.23300	1275.10000				

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_nor3_2	A->Y (FR)	0.01860	0.00100	0.06954	0.32940	0.12960	0.73162	2.50740	0.60000	3.33952
	B->Y (FR)	0.01860	0.00100	0.06458	0.32940	0.12960	0.74773	2.50740	0.60000	3.55496
	C->Y (FR)	0.01860	0.00100	0.04573	0.32940	0.12960	0.74986	2.50740	0.60000	3.71837
	A->Y (FR)	0.01860	0.00100	0.07712	0.32940	0.06480	0.73150	2.50740	0.30000	3.33327
sg13g2_nor3_1	B->Y (FR)	0.01860	0.00100	0.07180	0.32940	0.06480	0.74699	2.50740	0.30000	3.54568
	C->Y (FR)	0.01860	0.00100	0.05513	0.32940	0.06480	0.75117	2.50740	0.30000	3.71084

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_nor3_2	A->Y (RF)	0.01860	0.00100	0.02708	0.32940	0.12960	0.35375	2.50740	0.60000	1.87929
	B->Y (RF)	0.01860	0.00100	0.02676	0.32940	0.12960	0.34973	2.50740	0.60000	1.87408
	C->Y (RF)	0.01860	0.00100	0.02210	0.32940	0.12960	0.34387	2.50740	0.60000	1.86641
	A->Y (RF)	0.01860	0.00100	0.02891	0.32940	0.06480	0.34501	2.50740	0.30000	1.83066
sg13g2_nor3_1	B->Y (RF)	0.01860	0.00100	0.02836	0.32940	0.06480	0.34138	2.50740	0.30000	1.82778
	C->Y (RF)	0.01860	0.00100	0.02440	0.32940	0.06480	0.33625	2.50740	0.30000	1.82045

Internal switching power(pJ) to Y rising:

Cell Name	I4	Power(pJ)								
Cen Name Input	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A	0.01860	0.00100	0.01761	0.32940	0.12960	0.01743	2.50740	0.60000	0.02205
sg13g2_nor3_2	В	0.01860	0.00100	0.01302	0.32940	0.12960	0.01311	2.50740	0.60000	0.01738
	C	0.01860	0.00100	0.00768	0.32940	0.12960	0.00822	2.50740	0.60000	0.01453
	A	0.01860	0.00100	0.00912	0.32940	0.06480	0.00924	2.50740	0.30000	0.01160
sg13g2_nor3_1	В	0.01860	0.00100	0.00683	0.32940	0.06480	0.00682	2.50740	0.30000	0.00935
	C	0.01860	0.00100	0.00421	0.32940	0.06480	0.00476	2.50740	0.30000	0.00772

Internal switching power(pJ) to Y falling:

Cell Name	In must	Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	0.01860	0.00100	0.00679	0.32940	0.12960	0.00668	2.50740	0.60000	0.01356	
sg13g2_nor3_2	В	0.01860	0.00100	0.00606	0.32940	0.12960	0.00636	2.50740	0.60000	0.01268	
	С	0.01860	0.00100	0.00413	0.32940	0.12960	0.00537	2.50740	0.60000	0.01165	
	A	0.01860	0.00100	0.00370	0.32940	0.06480	0.00365	2.50740	0.30000	0.00709	
sg13g2_nor3_1	В	0.01860	0.00100	0.00326	0.32940	0.06480	0.00339	2.50740	0.30000	0.00661	
	С	0.01860	0.00100	0.00262	0.32940	0.06480	0.00316	2.50740	0.30000	0.00628	

NOR4x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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 C	ap(pf)		Max Cap(pf)		
Cell Name	A	В	C	D	Y		
sg13g2_nor4_2	0.00567	0.00561	0.00556	0.00541	0.60000		
sg13g2_nor4_1	0.00294	0.00295	0.00292	0.00277	0.30000		

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_nor4_2	778.35100	1449.31000	3123.67000					
sg13g2_nor4_1	389.16800	724.65200	1561.85000					

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	0.11083	0.32940	0.12960	0.96078	2.50740	0.60000	4.15992
	B->Y (FR)	0.01860	0.00100	0.10624	0.32940	0.12960	0.96684	2.50740	0.60000	4.30755
sg13g2_nor4_2	C->Y (FR)	0.01860	0.00100	0.09110	0.32940	0.12960	0.96630	2.50740	0.60000	4.46989
	D->Y (FR)	0.01860	0.00100	0.06108	0.32940	0.12960	0.95277	2.50740	0.60000	4.58115
	A->Y (FR)	0.01860	0.00100	0.11584	0.32940	0.06480	0.95448	2.50740	0.30000	4.14148
221222 224 1	B->Y (FR)	0.01860	0.00100	0.11114	0.32940	0.06480	0.96005	2.50740	0.30000	4.28654
sg13g2_n0r4_1	g13g2_nor4_1 C->Y (FR)	0.01860	0.00100	0.09777	0.32940	0.06480	0.96216	2.50740	0.30000	4.45397
	D->Y (FR)	0.01860	0.00100	0.07086	0.32940	0.06480	0.95126	2.50740	0.30000	4.56344

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	0.02864	0.32940	0.12960	0.36005	2.50740	0.60000	1.88775
	B->Y (RF)	0.01860	0.00100	0.02962	0.32940	0.12960	0.35785	2.50740	0.60000	1.88275
sg13g2_nor4_2	C->Y (RF)	0.01860	0.00100	0.02854	0.32940	0.12960	0.35282	2.50740	0.60000	1.87562
	D->Y (RF)	0.01860	0.00100	0.02396	0.32940	0.12960	0.34554	2.50740	0.60000	1.86570
	A->Y (RF)	0.01860	0.00100	0.03084	0.32940	0.06480	0.35972	2.50740	0.30000	1.88699
	B->Y (RF)	0.01860	0.00100	0.03166	0.32940	0.06480	0.35785	2.50740	0.30000	1.88385
sg13g2_nor4_1	C->Y (RF)	0.01860	0.00100	0.03044	0.32940	0.06480	0.35318	2.50740	0.30000	1.87678
	D->Y (RF)	0.01860	0.00100	0.02615	0.32940	0.06480	0.34667	2.50740	0.30000	1.86944

Internal switching power(pJ) to Y rising:

CHN			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	0.02416	0.32940	0.12960	0.02382	2.50740	0.60000	0.02818		
aa12a2 man4 2	В	0.01860	0.00100	0.01971	0.32940	0.12960	0.01934	2.50740	0.60000	0.02314		
sg13g2_nor4_2	С	0.01860	0.00100	0.01521	0.32940	0.12960	0.01496	2.50740	0.60000	0.01983		
	D	0.01860	0.00100	0.00994	0.32940	0.12960	0.01032	2.50740	0.60000	0.01691		
	A	0.01860	0.00100	0.01191	0.32940	0.06480	0.01168	2.50740	0.30000	0.01434		
12-24 1	В	0.01860	0.00100	0.00966	0.32940	0.06480	0.00953	2.50740	0.30000	0.01158		
sg13g2_nor4_1	С	0.01860	0.00100	0.00742	0.32940	0.06480	0.00732	2.50740	0.30000	0.00921		
	D	0.01860	0.00100	0.00485	0.32940	0.06480	0.00503	2.50740	0.30000	0.00795		

Internal switching power(pJ) to Y falling:

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	0.00859	0.32940	0.12960	0.00819	2.50740	0.60000	0.01454	
aa12a2 man4 2	В	0.01860	0.00100	0.00790	0.32940	0.12960	0.00763	2.50740	0.60000	0.01345	
sg13g2_nor4_2	С	0.01860	0.00100	0.00622	0.32940	0.12960	0.00657	2.50740	0.60000	0.01269	
	D	0.01860	0.00100	0.00428	0.32940	0.12960	0.00553	2.50740	0.60000	0.01098	
	A	0.01860	0.00100	0.00431	0.32940	0.06480	0.00409	2.50740	0.30000	0.00721	
aa12a2 man4 1	В	0.01860	0.00100	0.00399	0.32940	0.06480	0.00387	2.50740	0.30000	0.00690	
sg13g2_nor4_1	C	0.01860	0.00100	0.00342	0.32940	0.06480	0.00359	2.50740	0.30000	0.00659	
	D	0.01860	0.00100	0.00271	0.32940	0.06480	0.00321	2.50740	0.30000	0.00607	

NP_ANT



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

Truth Table

INPUT						
A						
X						

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
Cen Name	A
sg13g2_antennanp	0.00110

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_antennanp	5.54685	5.55024	5.55362			

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	-0.00037	0.32940	-0.00037	2.50740	-0.00037			

Passive power(pJ) for A falling:

Cell Name		Power(pJ)							
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_antennanp	0.01860	0.00037	0.32940	0.00037	2.50740	0.00037			

O21AI



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

Truth Table

I	NPU'	T	OUTPUT
A1	A2	B 1	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	0.00334	0.00329	0.00315	0.30000	

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_o21ai_1	178.55400	778.44000	1640.42000				

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	0.06748	0.32940	0.06480	0.62261	2.50740	0.30000	2.96034	
	A2->Y (FR)	0.01860	0.00100	0.05911	0.32940	0.06480	0.64610	2.50740	0.30000	3.22814	
	B1->Y (FR)	0.01860	0.00100	0.02589	0.32940	0.06480	0.40686	2.50740	0.30000	2.21410	

Delay(ns) to Y falling:

Cell Name Timing Arc(Dir)	Timing	Delay(ns)									
	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_o21ai_1	A1->Y (RF)	0.01860	0.00100	0.04902	0.32940	0.06480	0.45811	2.50740	0.30000	2.24939	
	A2->Y (RF)	0.01860	0.00100	0.04112	0.32940	0.06480	0.44857	2.50740	0.30000	2.23598	
	B1->Y (RF)	0.01860	0.00100	0.03146	0.32940	0.06480	0.46450	2.50740	0.30000	2.42654	

Delay(ns) to Y rising (conditional):

I Cell Name	Timing	~ wnen ⊢		Delay(ns)							
	Arc(Dir)		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	0.02589	0.32940	0.06480	0.40686	2.50740	0.30000	2.21410

Delay(ns) to Y falling (conditional):

Call Name	Timing	When					Delay(ns)				
Cell Name Arc(Dir	Arc(Dir)	wnen	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	0.03146	0.32940	0.06480	0.46450	2.50740	0.30000	2.42654

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	0.00656	0.32940	0.06480	0.00638	2.50740	0.30000	0.00959		
sg13g2_o21ai_1	A2	0.01860	0.00100	0.00363	0.32940	0.06480	0.00377	2.50740	0.30000	0.00708		
	B1	0.01860	0.00100	0.00221	0.32940	0.06480	0.00276	2.50740	0.30000	0.00641		

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	0.00612	0.32940	0.06480	0.00600	2.50740	0.30000	0.00893			
sg13g2_o21ai_1	A2	0.01860	0.00100	0.00568	0.32940	0.06480	0.00598	2.50740	0.30000	0.00885			
	B1	0.01860	0.00100	0.00307	0.32940	0.06480	0.00357	2.50740	0.30000	0.00715			

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

Cell Name	Innut	Whom		Power(pJ)									
Cell Name	Input	put When	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	0.00221	0.32940	0.06480	0.00276	2.50740	0.30000	0.00641		

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

Cell Name In	Innut	out When		Power(pJ)								
Cen Name	Input Wh	when		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	0.00307	0.32940	0.06480	0.00357	2.50740	0.30000	0.00715	

OR2x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00243	0.00225	0.60000
sg13g2_or2_1	0.00245	0.00227	0.30000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_or2_2	714.66500	1163.64000	1799.21000				
sg13g2_or2_1	509.16900	819.33200	1038.47000				

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	0.06939	0.32940	0.12960	0.36809	2.50740	0.60000	1.27678			
sg13g2_or2_2	B->X (RR)	0.01860	0.00100	0.06471	0.32940	0.12960	0.35618	2.50740	0.60000	1.23789			
12-22 1	A->X (RR)	0.01860	0.00100	0.05846	0.32940	0.06480	0.33448	2.50740	0.30000	1.19875			
sg13g2_or2_1	B->X (RR)	0.01860	0.00100	0.05368	0.32940	0.06480	0.31992	2.50740	0.30000	1.15286			

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	0.11777	0.32940	0.12960	0.39652	2.50740	0.60000	1.25013			
sg13g2_or2_2	B->X (FF)	0.01860	0.00100	0.11141	0.32940	0.12960	0.40916	2.50740	0.60000	1.30481			
12-2 and 1	A->X (FF)	0.01860	0.00100	0.09118	0.32940	0.06480	0.34322	2.50740	0.30000	1.15685			
sg13g2_or2_1	B->X (FF)	0.01860	0.00100	0.08450	0.32940	0.06480	0.34988	2.50740	0.30000	1.19438			

Internal switching power(pJ) to X rising:

Call Name	Immust	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	0.01259	0.32940	0.12960	0.01337	2.50740	0.60000	0.02429		
sg13g2_or2_2	В	0.01860	0.00100	0.01231	0.32940	0.12960	0.01311	2.50740	0.60000	0.02357		
12-22 1	A	0.01860	0.00100	0.00770	0.32940	0.06480	0.00844	2.50740	0.30000	0.01972		
sg13g2_or2_1	В	0.01860	0.00100	0.00740	0.32940	0.06480	0.00814	2.50740	0.30000	0.01932		

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		
12-22 2	A	0.01860	0.00100	0.01501	0.32940	0.12960	0.01475	2.50740	0.60000	0.02479		
sg13g2_or2_2	В	0.01860	0.00100	0.01322	0.32940	0.12960	0.01344	2.50740	0.60000	0.02405		
12-22 1	A	0.01860	0.00100	0.00945	0.32940	0.06480	0.00978	2.50740	0.30000	0.02069		
sg13g2_or2_1	В	0.01860	0.00100	0.00759	0.32940	0.06480	0.00846	2.50740	0.30000	0.01981		

OR3x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00256	0.00249	0.00236	0.60000	
sg13g2_or3_1	0.00257	0.00250	0.00237	0.30000	

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_or3_2	736.48600	1155.60000	1946.54000				
sg13g2_or3_1	530.83500	880.58700	1338.03000				

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	0.07848	0.32940	0.12960	0.39002	2.50740	0.60000	1.33545
	B->X (RR)	0.01860	0.00100	0.07514	0.32940	0.12960	0.37973	2.50740	0.60000	1.30213
	C->X (RR)	0.01860	0.00100	0.06879	0.32940	0.12960	0.36565	2.50740	0.60000	1.25952
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	0.06790	0.32940	0.06480	0.35954	2.50740	0.30000	1.26996
	B->X (RR)	0.01860	0.00100	0.06492	0.32940	0.06480	0.34840	2.50740	0.30000	1.22541
	C->X (RR)	0.01860	0.00100	0.05846	0.32940	0.06480	0.33178	2.50740	0.30000	1.17902

Delay(ns) to X 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		
	A->X (FF)	0.01860	0.00100	0.16372	0.32940	0.12960	0.44479	2.50740	0.60000	1.26860		
sg13g2_or3_2	B->X (FF)	0.01860	0.00100	0.15913	0.32940	0.12960	0.45553	2.50740	0.60000	1.34071		
	C->X (FF)	0.01860	0.00100	0.14375	0.32940	0.12960	0.45473	2.50740	0.60000	1.36814		
	A->X (FF)	0.01860	0.00100	0.13084	0.32940	0.06480	0.38731	2.50740	0.30000	1.18091		
sg13g2_or3_1	B->X (FF)	0.01860	0.00100	0.12613	0.32940	0.06480	0.39421	2.50740	0.30000	1.24117		
	C->X (FF)	0.01860	0.00100	0.11046	0.32940	0.06480	0.38877	2.50740	0.30000	1.25505		

Internal switching power(pJ) to X rising:

Cell Name	Input	Power(pJ)									
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_or3_2	A	0.01860	0.00100	0.01324	0.32940	0.12960	0.01375	2.50740	0.60000	0.02438	
	В	0.01860	0.00100	0.01292	0.32940	0.12960	0.01344	2.50740	0.60000	0.02421	
	C	0.01860	0.00100	0.01244	0.32940	0.12960	0.01324	2.50740	0.60000	0.02340	
	A	0.01860	0.00100	0.00826	0.32940	0.06480	0.00877	2.50740	0.30000	0.02029	
sg13g2_or3_1	В	0.01860	0.00100	0.00800	0.32940	0.06480	0.00853	2.50740	0.30000	0.01962	
	C	0.01860	0.00100	0.00751	0.32940	0.06480	0.00818	2.50740	0.30000	0.01924	

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	0.01966	0.32940	0.12960	0.01856	2.50740	0.60000	0.02859	
	В	0.01860	0.00100	0.01772	0.32940	0.12960	0.01668	2.50740	0.60000	0.02639	
	C	0.01860	0.00100	0.01553	0.32940	0.12960	0.01486	2.50740	0.60000	0.02507	
	A	0.01860	0.00100	0.01348	0.32940	0.06480	0.01356	2.50740	0.30000	0.02422	
sg13g2_or3_1	В	0.01860	0.00100	0.01151	0.32940	0.06480	0.01165	2.50740	0.30000	0.02236	
	C	0.01860	0.00100	0.00928	0.32940	0.06480	0.00997	2.50740	0.30000	0.02120	

OR4x



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00254	0.00246	0.00243	0.00234	0.60000
sg13g2_or4_1	0.00256	0.00247	0.00244	0.00235	0.30000

Leakage Information

Cell Name	Leakage(pW)						
	Min.	Avg	Max.				
sg13g2_or4_2	738.04700	1106.80000	2087.87000				
sg13g2_or4_1	532.49600	866.55600	1594.54000				

Delay Information Delay(ns) to X rising:

Call Mass	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	0.08215	0.32940	0.12960	0.40191	2.50740	0.60000	1.35991
12.24 2	B->X (RR)	0.01860	0.00100	0.08080	0.32940	0.12960	0.39416	2.50740	0.60000	1.32683
sg13g2_or4_2	C->X (RR)	0.01860	0.00100	0.07616	0.32940	0.12960	0.38223	2.50740	0.60000	1.28799
	D->X (RR)	0.01860	0.00100	0.06970	0.32940	0.12960	0.36828	2.50740	0.60000	1.24766
	A->X (RR)	0.01860	0.00100	0.07117	0.32940	0.06480	0.37239	2.50740	0.30000	1.29055
12.24 1	B->X (RR)	0.01860	0.00100	0.07038	0.32940	0.06480	0.36414	2.50740	0.30000	1.25519
sg13g2_or4_1	C->X (RR)	0.01860	0.00100	0.06619	0.32940	0.06480	0.35143	2.50740	0.30000	1.21447
	D->X (RR)	0.01860	0.00100	0.05954	0.32940	0.06480	0.33518	2.50740	0.30000	1.16785

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	0.22681	0.32940	0.12960	0.52286	2.50740	0.60000	1.33674
12-24 2	B->X (FF)	0.01860	0.00100	0.22205	0.32940	0.12960	0.52677	2.50740	0.60000	1.40828
sg13g2_or4_2	C->X (FF)	0.01860	0.00100	0.20665	0.32940	0.12960	0.52290	2.50740	0.60000	1.45749
	D->X (FF)	0.01860	0.00100	0.18114	0.32940	0.12960	0.51226	2.50740	0.60000	1.47138
	A->X (FF)	0.01860	0.00100	0.18217	0.32940	0.06480	0.45308	2.50740	0.30000	1.24309
12-24 1	B->X (FF)	0.01860	0.00100	0.17761	0.32940	0.06480	0.45543	2.50740	0.30000	1.30518
sg13g2_or4_1	C->X (FF)	0.01860	0.00100	0.16234	0.32940	0.06480	0.44843	2.50740	0.30000	1.34306
	D->X (FF)	0.01860	0.00100	0.13613	0.32940	0.06480	0.43370	2.50740	0.30000	1.34346

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
sg13g2_or4_2	A	0.01860	0.00100	0.01417	0.32940	0.12960	0.01450	2.50740	0.60000	0.02436
	В	0.01860	0.00100	0.01383	0.32940	0.12960	0.01429	2.50740	0.60000	0.02353
	С	0.01860	0.00100	0.01298	0.32940	0.12960	0.01350	2.50740	0.60000	0.02301
	D	0.01860	0.00100	0.01246	0.32940	0.12960	0.01316	2.50740	0.60000	0.02234
	A	0.01860	0.00100	0.00917	0.32940	0.06480	0.00950	2.50740	0.30000	0.01991
12-24 1	В	0.01860	0.00100	0.00882	0.32940	0.06480	0.00913	2.50740	0.30000	0.01904
sg13g2_or4_1	С	0.01860	0.00100	0.00804	0.32940	0.06480	0.00854	2.50740	0.30000	0.01841
	D	0.01860	0.00100	0.00753	0.32940	0.06480	0.00822	2.50740	0.30000	0.01818

Internal switching power(pJ) to X falling:

Cell Name	Immut				:	Power(pJ)				
Cen ivallie	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A	0.01860	0.00100	0.02335	0.32940	0.12960	0.02078	2.50740	0.60000	0.02907
aa12a2 au4 2	В	0.01860	0.00100	0.02140	0.32940	0.12960	0.01888	2.50740	0.60000	0.02725
sg13g2_or4_2	C	0.01860	0.00100	0.01938	0.32940	0.12960	0.01716	2.50740	0.60000	0.02542
	D	0.01860	0.00100	0.01721	0.32940	0.12960	0.01529	2.50740	0.60000	0.02436
	A	0.01860	0.00100	0.01605	0.32940	0.06480	0.01580	2.50740	0.30000	0.02503
ag12g2 and 1	В	0.01860	0.00100	0.01414	0.32940	0.06480	0.01387	2.50740	0.30000	0.02321
sg13g2_or4_1	C	0.01860	0.00100	0.01216	0.32940	0.06480	0.01206	2.50740	0.30000	0.02137
	D	0.01860	0.00100	0.00990	0.32940	0.06480	0.01030	2.50740	0.30000	0.02037

SDFRBPQx



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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
x	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	0.00273	0.00285	0.00465	0.00504	0.00290	0.60000
sg13g2_sdfrbpq_1	0.00273	0.00285	0.00465	0.00502	0.00290	0.30000

Leakage Information

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_sdfrbpq_2	4901.52000	5771.34000	7472.90000			
sg13g2_sdfrbpq_1	4439.66000	5239.24000	6712.19000			

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	0.20019	0.32940	0.12960	0.50177	2.50740	0.60000	1.35197
sg13g2_sdfrbpq_1	CLK->Q (RR)	0.01860	0.00100	0.17463	0.32940	0.06480	0.46079	2.50740	0.30000	1.30885

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	0.20749	0.32940	0.12960	0.48804	2.50740	0.60000	1.23826
sg13g2_sdfrbpq_2	RESET_B->Q (FF)	0.01860	0.00100	0.12068	0.32940	0.12960	0.45640	2.50740	0.60000	1.43459
	CLK->Q (RF)	0.01860	0.00100	0.18204	0.32940	0.06480	0.44648	2.50740	0.30000	1.19788
sg13g2_sdfrbpq_1	RESET_B->Q (FF)	0.01860	0.00100	0.09617	0.32940	0.06480	0.40556	2.50740	0.30000	1.32886

Delay(ns) to Q 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		
anii 2nii adenbuna 2	CLK->Q (RR)	SCE	0.01860	0.00100	0.20019	0.32940	0.12960	0.50177	2.50740	0.60000	1.35197		
sg13g2_sdfrbpq_2	CLK->Q (RR)	!SCE	0.01860	0.00100	0.20018	0.32940	0.12960	0.50177	2.50740	0.60000	1.35197		
12.216.1	CLK->Q (RR)	SCE	0.01860	0.00100	0.17463	0.32940	0.06480	0.46079	2.50740	0.30000	1.30885		
sg13g2_sdfrbpq_1	CLK->Q (RR)	!SCE	0.01860	0.00100	0.17463	0.32940	0.06480	0.46079	2.50740	0.30000	1.30885		

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)	SCE	0.01860	0.00100	0.20749	0.32940	0.12960	0.48804	2.50740	0.60000	1.23826
sg13g2_sdfrbpq_2	CLK->Q (RF)	!SCE	0.01860	0.00100	0.20726	0.32940	0.12960	0.48822	2.50740	0.60000	1.23811
12-2 -16 h - 1	CLK->Q (RF)	SCE	0.01860	0.00100	0.18204	0.32940	0.06480	0.44648	2.50740	0.30000	1.19788
sg13g2_sdfrbpq_1	CLK->Q (RF)	!SCE	0.01860	0.00100	0.18203	0.32940	0.06480	0.44672	2.50740	0.30000	1.19786

Constraint Information

Constraints(ns) for D rising:

	T:i	D-f				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	hold	CLK (R)	0.01860	0.01860	-0.15160	1.26300	1.26300	-0.25365	2.50740	2.50740	-0.28630
sg13g2_sdfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.18828	1.26300	1.26300	0.27523	2.50740	2.50740	0.31582
12.2	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.25365	2.50740	2.50740	-0.28925
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.27793	2.50740	2.50740	0.31286

Constraints(ns) for D 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		
sg13g2_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.15160	1.26300	1.26300	-0.22936	2.50740	2.50740	-0.28040		
	setup	CLK (R)	0.01860	0.01860	0.20295	1.26300	1.26300	0.26714	2.50740	2.50740	0.32467		
12-21611	hold	CLK (R)	0.01860	0.01860	-0.15160	1.26300	1.26300	-0.22936	2.50740	2.50740	-0.28040		
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.20295	1.26300	1.26300	0.26984	2.50740	2.50740	0.32467		

Constraints(ns) for SCD rising:

	m:	Ref				C	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	-0.15160	1.26300	1.26300	-0.25365	2.50740	2.50740	-0.28925
	setup	CLK (R)	0.01860	0.01860	0.18828	1.26300	1.26300	0.27793	2.50740	2.50740	0.31582
12.2	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.25365	2.50740	2.50740	-0.28925
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.27793	2.50740	2.50740	0.31582

Constraints(ns) for SCD falling:

	m: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_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.22666	2.50740	2.50740	-0.27744			
sg13g2_sa1rbpq_2	setup	CLK (R)	0.01860	0.01860	0.20295	1.26300	1.26300	0.26984	2.50740	2.50740	0.32467			
12-216-1 1	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.22666	2.50740	2.50740	-0.27744			
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.20295	1.26300	1.26300	0.26984	2.50740	2.50740	0.32467			

Constraints(ns) for SCE rising:

	T::	Ref				Co	onstraint(1	ns)			
Cell Name	Timing Check	eck Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sal2a2 sdfrhna 2	hold	CLK (R)	0.01860	0.01860	-0.15405	1.26300	1.26300	-0.24825	2.50740	2.50740	-0.28925
sg13g2_sdfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.27254	2.50740	2.50740	0.31582
12.2.16.1	hold	CLK (R)	0.01860	0.01860	-0.15405	1.26300	1.26300	-0.24825	2.50740	2.50740	-0.28925
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.19317	1.26300	1.26300	0.27523	2.50740	2.50740	0.31582

Constraints(ns) for SCE falling:

	TD:	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
sal2a2 adfubna 2	hold	CLK (R)	0.01860	0.01860	-0.15894	1.26300	1.26300	-0.19968	2.50740	2.50740	-0.23317
sg13g2_sdfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.21029	1.26300	1.26300	0.24285	2.50740	2.50740	0.28040
12-2 -Jf-h 1	hold	CLK (R)	0.01860	0.01860	-0.15894	1.26300	1.26300	-0.19968	2.50740	2.50740	-0.23317
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.21273	1.26300	1.26300	0.24285	2.50740	2.50740	0.28040

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
sg13g2_sdfrbpq_2	recovery	CLK (R)	0.01860	0.01860	0.11492	1.26300	1.26300	0.29412	2.50740	2.50740	0.67885
	removal	CLK (R)	0.01860	0.01860	-0.09781	1.26300	1.26300	-0.24285	2.50740	2.50740	-0.35123
sg13g2_sdfrbpq_1	recovery	CLK (R)	0.01860	0.01860	0.11492	1.26300	1.26300	0.28333	2.50740	2.50740	0.48995
	removal	CLK (R)	0.01860	0.01860	-0.09781	1.26300	1.26300	-0.24285	2.50740	2.50740	-0.35123

Constraints(ns) for RESET_B falling:

		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_sdfrbpq_2	min_pulse_width	RESET_B	0.01860	0.00000	0.13107	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818
sg13g2_sdfrbpq_1	min_pulse_width	RESET_B	0.01860	0.00000	0.11505	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_sdfrbpq_2	min_pulse_width	CLK ()	0.01860	0.00000	0.09583	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_sdfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.07980	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	0.12146	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_sdfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.12466	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	0.03180	0.32940	0.12960	0.03265	2.50740	0.60000	0.05355		
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	0.02597	0.32940	0.06480	0.02736	2.50740	0.30000	0.04808		

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	0.03320	0.32940	0.12960	0.03440	2.50740	0.60000	0.05469			
sg13g2_sdfrbpq_2	RESET_B	0.01860	0.00100	0.03120	0.32940	0.12960	0.03059	2.50740	0.60000	0.04704			
12-2 -de-h 1	CLK	0.01860	0.00100	0.02754	0.32940	0.06480	0.02935	2.50740	0.30000	0.04950			
sg13g2_sdfrbpq_1	RESET_B	0.01860	0.00100	0.02559	0.32940	0.06480	0.02574	2.50740	0.30000	0.04209			

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

Cell Name	T4	When	Power(pJ)									
	Input	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
12.2.16.12	CLK	SCE	0.01860	0.00100	0.03180	0.32940	0.12960	0.03265	2.50740	0.60000	0.05355	
sg13g2_sdfrbpq_2	CLK	!SCE	0.01860	0.00100	0.01830	0.32940	0.12960	0.01807	2.50740	0.60000	0.01943	
12-216-1 1	CLK	SCE	0.01860	0.00100	0.02597	0.32940	0.06480	0.02736	2.50740	0.30000	0.04808	
sg13g2_sdfrbpq_1	CLK	!SCE	0.01860	0.00100	0.01247	0.32940	0.06480	0.01279	2.50740	0.30000	0.01397	

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

Cell Name	T4	When	Power(pJ)									
	Input	WHEI	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	0.03320	0.32940	0.12960	0.03440	2.50740	0.60000	0.05469	
sg13g2_sdfrbpq_2	CLK	!SCE	0.01860	0.00100	0.02062	0.32940	0.12960	0.02074	2.50740	0.60000	0.02155	
12-216-1 1	CLK	SCE	0.01860	0.00100	0.02754	0.32940	0.06480	0.02935	2.50740	0.30000	0.04950	
sg13g2_sdfrbpq_1	CLK	!SCE	0.01860	0.00100	0.01500	0.32940	0.06480	0.01576	2.50740	0.30000	0.01631	

Passive power(pJ) for D rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_sdfrbpq_2	0.01860	0.04437	0.32940	0.04492	2.50740	0.06041				
sg13g2_sdfrbpq_1	0.01860	0.03884	0.32940	0.03939	2.50740	0.05488				

Passive power(pJ) for D falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_sdfrbpq_2	0.01860	0.02875	0.32940	0.02982	2.50740	0.04682				
sg13g2_sdfrbpq_1	0.01860	0.02426	0.32940	0.02533	2.50740	0.04232				

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	0.04437	0.32940	0.04492	2.50740	0.06041			
sg13g2_sdfrbpq_1	(!CLK * RESET_B * !SCE)	0.01860	0.03884	0.32940	0.03939	2.50740	0.05488			

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	0.02875	0.32940	0.02982	2.50740	0.04682			
sg13g2_sdfrbpq_1	(!CLK * RESET_B * !SCE)	0.01860	0.02426	0.32940	0.02533	2.50740	0.04232			

Passive power(pJ) for SCD rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_sdfrbpq_2	0.01860	0.04457	0.32940	0.04511	2.50740	0.06060					
sg13g2_sdfrbpq_1	0.01860	0.03905	0.32940	0.03958	2.50740	0.05507					

Passive power(pJ) for SCD falling:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_sdfrbpq_2	0.01860	0.02835	0.32940	0.02943	2.50740	0.04644					
sg13g2_sdfrbpq_1	0.01860	0.02279	0.32940	0.02387	2.50740	0.04089					

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

Call Name	VVII- ove	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_sdfrbpq_2	(!CLK * RESET_B * SCE)	0.01860	0.04457	0.32940	0.04511	2.50740	0.06060	
sg13g2_sdfrbpq_1	(!CLK * RESET_B * SCE)	0.01860	0.03905	0.32940	0.03958	2.50740	0.05507	

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

Call Name	VVII- ove	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_sdfrbpq_2	(!CLK * RESET_B * SCE)	0.01860	0.02835	0.32940	0.02943	2.50740	0.04644	
sg13g2_sdfrbpq_1	(!CLK * RESET_B * SCE)	0.01860	0.02279	0.32940	0.02387	2.50740	0.04089	

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	0.03220	0.32940	0.03368	2.50740	0.06110		
sg13g2_sdfrbpq_1	0.01860	0.03222	0.32940	0.03371	2.50740	0.06112		

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	0.02743	0.32940	0.05227	2.50740	0.08079		
sg13g2_sdfrbpq_1	0.01860	0.02516	0.32940	0.05002	2.50740	0.07852		

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

Call Name	VVII- ove	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	0.03110	0.32940	0.03181	2.50740	0.04506	
sg13g2_sdfrbpq_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.03220	0.32940	0.03368	2.50740	0.06110	
	(!CLK * D * RESET_B * !SCD)	0.01860	0.02880	0.32940	0.02953	2.50740	0.04277	
sg13g2_sdfrbpq_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.03222	0.32940	0.03371	2.50740	0.06112	

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 - Jedan 2	(!CLK * D * RESET_B * !SCD)	0.01860	0.03275	0.32940	0.03348	2.50740	0.04727	
sg13g2_sdfrbpq_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.02743	0.32940	0.05227	2.50740	0.08079	
	(!CLK * D * RESET_B * !SCD)	0.01860	0.03277	0.32940	0.03351	2.50740	0.04730	
sg13g2_sdfrbpq_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.02516	0.32940	0.05002	2.50740	0.07852	

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	0.01351	0.32940	0.01457	2.50740	0.03411		
sg13g2_sdfrbpq_1	0.01860	0.01350	0.32940	0.01457	2.50740	0.03411		

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	0.01372	0.32940	0.01484	2.50740	0.03502		
sg13g2_sdfrbpq_1	0.01860	0.01369	0.32940	0.01485	2.50740	0.03501		

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

Call Name	33 71			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * Q)	0.01860	0.01377	0.32940	0.01483	2.50740	0.03437
	(RESET_B * !SCD * SCE * !Q)	0.01860	0.01351	0.32940	0.01457	2.50740	0.03411
sg13g2_sdfrbpq_2	(D * RESET_B * !SCE * Q)	0.01860	0.01377	0.32940	0.01483	2.50740	0.03437
	(!RESET_B * !Q)	0.01860	0.00636	0.32940	0.00742	2.50740	0.02691
	(!D * RESET_B * !SCE * !Q)	0.01860	0.01362	0.32940	0.01467	2.50740	0.03421
	(RESET_B * SCD * SCE * Q)	0.01860	0.01377	0.32940	0.01482	2.50740	0.03436
	(RESET_B * !SCD * SCE * !Q)	0.01860	0.01350	0.32940	0.01457	2.50740	0.03411
sg13g2_sdfrbpq_1	(D * RESET_B * !SCE * Q)	0.01860	0.01377	0.32940	0.01483	2.50740	0.03436
	(!RESET_B * !Q)	0.01860	0.00408	0.32940	0.00517	2.50740	0.02462
	(!D * RESET_B * !SCE * !Q)	0.01860	0.01360	0.32940	0.01467	2.50740	0.03421

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

G HAV	***			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * Q)	0.01860	0.01372	0.32940	0.01484	2.50740	0.03502
	(RESET_B * SCD * SCE * !Q)	0.01860	0.02601	0.32940	0.02713	2.50740	0.04793
	(RESET_B * !SCD * SCE * Q)	0.01860	0.02455	0.32940	0.02580	2.50740	0.04677
sg13g2_sdfrbpq_2	(RESET_B * !SCD * SCE * !Q)	0.01860	0.01310	0.32940	0.01424	2.50740	0.03438
	(D * RESET_B * !SCE * Q)	0.01860	0.01372	0.32940	0.01484	2.50740	0.03502
	(!RESET_B * !Q)	0.01860	0.00730	0.32940	0.00841	2.50740	0.02856
	(!D * RESET_B * !SCE * !Q)	0.01860	0.01327	0.32940	0.01441	2.50740	0.03455
	(RESET_B * SCD * SCE * Q)	0.01860	0.01369	0.32940	0.01484	2.50740	0.03501
	(RESET_B * SCD * SCE * !Q)	0.01860	0.02601	0.32940	0.02713	2.50740	0.04793
	(RESET_B * !SCD * SCE * Q)	0.01860	0.02453	0.32940	0.02579	2.50740	0.04677
sg13g2_sdfrbpq_1	(RESET_B * !SCD * SCE * !Q)	0.01860	0.01310	0.32940	0.01423	2.50740	0.03439
	(D * RESET_B * !SCE * Q)	0.01860	0.01369	0.32940	0.01485	2.50740	0.03501
	(!RESET_B * !Q)	0.01860	0.00501	0.32940	0.00612	2.50740	0.02627
	(!D * RESET_B * !SCE * !Q)	0.01860	0.01327	0.32940	0.01441	2.50740	0.03456

SDFRBPx



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00273	0.00285	0.00465	0.00513	0.00290	0.60000	0.60000		
sg13g2_sdfrbp_1	0.00273	0.00285	0.00465	0.00508	0.00290	0.30000	0.30000		

Leakage Information

Call Name		Leakage(pW)	
Cell Name	Min.	Avg	Max.
sg13g2_sdfrbp_2	5782.17000	6950.88000	8056.51000
sg13g2_sdfrbp_1	4815.92000	5984.66000	7090.28000

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_sdfrbp_2	CLK->Q (RR)	0.01860	0.00100	0.23927	0.32940	0.12960	0.50464	2.50740	0.60000	1.38347
sg13g2_sdfrbp_1	CLK->Q (RR)	0.01860	0.00100	0.18827	0.32940	0.06480	0.46013	2.50740	0.30000	1.33559

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	0.20811	0.32940	0.12960	0.45814	2.50740	0.60000	1.21631
sg13g2_sdfrbp_2	RESET_B->Q (FF)	0.01860	0.00100	0.28111	0.32940	0.12960	0.57140	2.50740	0.60000	1.51676
	CLK->Q (RF)	0.01860	0.00100	0.17245	0.32940	0.06480	0.42138	2.50740	0.30000	1.17523
sg13g2_sdfrbp_1	RESET_B->Q (FF)	0.01860	0.00100	0.24387	0.32940	0.06480	0.53339	2.50740	0.30000	1.47362

Delay(ns) to Q 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
sg13g2_sdfrbp_2	CLK->Q (RR)	SCE	0.01860	0.00100	0.23927	0.32940	0.12960	0.50464	2.50740	0.60000	1.38347
sg13g2_sdfrbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	0.18827	0.32940	0.06480	0.46013	2.50740	0.30000	1.33559

Delay(ns) to Q 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
sg13g2_sdfrbp_2	CLK->Q (RF)	SCE	0.01860	0.00100	0.20811	0.32940	0.12960	0.45814	2.50740	0.60000	1.21631
sg13g2_sdfrbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	0.17245	0.32940	0.06480	0.42138	2.50740	0.30000	1.17523

Delay(ns) to Q_N rising:

Call 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 adfulu 2	CLK->Q_N (RR)	0.01860	0.00100	0.13953	0.32940	0.12960	0.44491	2.50740	0.60000	1.29480
sg13g2_sdfrbp_2	RESET_B->Q_N (FR)	0.01860	0.00100	0.21374	0.32940	0.12960	0.55645	2.50740	0.60000	1.59391
221222 adfulu 1	CLK->Q_N (RR)	0.01860	0.00100	0.13329	0.32940	0.06480	0.42697	2.50740	0.30000	1.27486
sg13g2_sdfrbp_1	RESET_B->Q_N (FR)	0.01860	0.00100	0.20489	0.32940	0.06480	0.53693	2.50740	0.30000	1.57219

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	0.15499	0.32940	0.12960	0.46802	2.50740	0.60000	1.25629
sg13g2_sdfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	0.14100	0.32940	0.06480	0.43709	2.50740	0.30000	1.22226

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	0.13953	0.32940	0.12960	0.44491	2.50740	0.60000	1.29480
sg13g2_sdfrbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	0.13329	0.32940	0.06480	0.42697	2.50740	0.30000	1.27486

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

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
sg13g2_sdfrbp_2	CLK->Q_N (RF)	SCE	0.01860	0.00100	0.15499	0.32940	0.12960	0.46802	2.50740	0.60000	1.25629
sg13g2_sdfrbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	0.14100	0.32940	0.06480	0.43709	2.50740	0.30000	1.22226

Constraint Information

Constraints(ns) for D rising:

	TD**	D.e				Co	onstraint(ı	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-h 2	hold	CLK (R)	0.01860	0.01860	-0.14182	1.26300	1.26300	-0.24555	2.50740	2.50740	-0.28335
sg13g2_sdfrbp_2	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.27523	2.50740	2.50740	0.30991
12.216.11	hold	CLK (R)	0.01860	0.01860	-0.14427	1.26300	1.26300	-0.24825	2.50740	2.50740	-0.28335
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.27523	2.50740	2.50740	0.30991

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
12.216.12	hold	CLK (R)	0.01860	0.01860	-0.14427	1.26300	1.26300	-0.23206	2.50740	2.50740	-0.28925
sg13g2_sdfrbp_2	setup	CLK (R)	0.01860	0.01860	0.21029	1.26300	1.26300	0.27254	2.50740	2.50740	0.33057
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.14427	1.26300	1.26300	-0.23206	2.50740	2.50740	-0.28925
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.21029	1.26300	1.26300	0.27254	2.50740	2.50740	0.32762

Constraints(ns) for SCD rising:

	T:		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			
sg13g2_sdfrbp_2	hold	CLK (R)	0.01860	0.01860	-0.14182	1.26300	1.26300	-0.24825	2.50740	2.50740	-0.28335			
	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.27793	2.50740	2.50740	0.30991			
sg13g2_sdfrbp_1	hold	CLK (R)	0.01860	0.01860	-0.14427	1.26300	1.26300	-0.24825	2.50740	2.50740	-0.28335			
	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.27523	2.50740	2.50740	0.30991			

Constraints(ns) for SCD falling:

	TD:	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_sdfrbp_2	hold	CLK (R)	0.01860	0.01860	-0.13938	1.26300	1.26300	-0.22936	2.50740	2.50740	-0.28630
sg13g2_sdfrbp_2	setup	CLK (R)	0.01860	0.01860	0.21029	1.26300	1.26300	0.27523	2.50740	2.50740	0.33057
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.14182	1.26300	1.26300	-0.22936	2.50740	2.50740	-0.28630
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.21029	1.26300	1.26300	0.27254	2.50740	2.50740	0.33057

Constraints(ns) for SCE rising:

	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
sg13g2_sdfrbp_2	hold	CLK (R)	0.01860	0.01860	-0.14427	1.26300	1.26300	-0.24285	2.50740	2.50740	-0.28335
sg15g2_sd1rbp_2	setup	CLK (R)	0.01860	0.01860	0.19317	1.26300	1.26300	0.27254	2.50740	2.50740	0.31286
12-216-h 1	hold	CLK (R)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.24555	2.50740	2.50740	-0.28630
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.19562	1.26300	1.26300	0.27254	2.50740	2.50740	0.30991

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

	T::	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_sdfrbp_1	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.20238	2.50740	2.50740	-0.24203			
	setup	CLK (R)	0.01860	0.01860	0.22007	1.26300	1.26300	0.24825	2.50740	2.50740	0.28335			
	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.20238	2.50740	2.50740	-0.24203			
	setup	CLK (R)	0.01860	0.01860	0.22007	1.26300	1.26300	0.24825	2.50740	2.50740	0.28335			

Constraints(ns) for RESET_B rising:

	Timing	Dof				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
sg13g2_sdfrbp_2 sg13g2_sdfrbp_1	recovery	CLK (R)	0.01860	0.01860	0.11737	1.26300	1.26300	0.25634	2.50740	2.50740	0.36599
	removal	CLK (R)	0.01860	0.01860	-0.10514	1.26300	1.26300	-0.24825	2.50740	2.50740	-0.35714
	recovery	CLK (R)	0.01860	0.01860	0.11737	1.26300	1.26300	0.25365	2.50740	2.50740	0.36304
	removal	CLK (R)	0.01860	0.01860	-0.10270	1.26300	1.26300	-0.24555	2.50740	2.50740	-0.35419

Constraints(ns) for RESET_B falling:

		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	RESET_B	0.01860	0.00000	0.11185	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818
sg13g2_sdfrbp_1	min_pulse_width	RESET_B	0.01860	0.00000	0.11185	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

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

		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	0.13428	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818
sg13g2_sdfrbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.10864	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

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
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	0.04842	0.32940	0.12960	0.16644	2.50740	0.60000	0.61514
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	0.03730	0.32940	0.06480	0.09707	2.50740	0.30000	0.33166

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	0.04803	0.32940	0.12960	0.16735	2.50740	0.60000	0.61615
sg13g2_sdfrbp_2	RESET_B	0.01860	0.00100	0.06328	0.32940	0.12960	0.19114	2.50740	0.60000	0.65842
sal2a2 sdfrbn 1	CLK	0.01860	0.00100	0.03988	0.32940	0.06480	0.10003	2.50740	0.30000	0.33427
sg13g2_sdfrbp_1 F	RESET_B	0.01860	0.00100	0.05336	0.32940	0.06480	0.11947	2.50740	0.30000	0.36309

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

Cell Name	T	nput When]	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	0.04842	0.32940	0.12960	0.16644	2.50740	0.60000	0.61514
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.03730	0.32940	0.06480	0.09707	2.50740	0.30000	0.33166

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

Call Name	T4	XX71				1	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	0.04803	0.32940	0.12960	0.16735	2.50740	0.60000	0.61615
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.03988	0.32940	0.06480	0.10003	2.50740	0.30000	0.33427

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		
ag12g2 adfubu 2	CLK	0.01860	0.00100	0.04809	0.32940	0.12960	0.16779	2.50740	0.60000	0.61665		
sg13g2_sdfrbp_2	RESET_B	0.01860	0.00100	0.06331	0.32940	0.12960	0.18916	2.50740	0.60000	0.64662		
sal3a2 sdfrhn 1	CLK	0.01860	0.00100	0.03991	0.32940	0.06480	0.10030	2.50740	0.30000	0.33463		
sg13g2_sdfrbp_1 F	RESET_B	0.01860	0.00100	0.04016	0.32940	0.06480	0.10084	2.50740	0.30000	0.33950		

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	0.04846	0.32940	0.12960	0.16600	2.50740	0.60000	0.61483
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	0.03732	0.32940	0.06480	0.09675	2.50740	0.30000	0.33135

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	0.04809	0.32940	0.12960	0.16779	2.50740	0.60000	0.61665
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.03991	0.32940	0.06480	0.10030	2.50740	0.30000	0.33463

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	0.04846	0.32940	0.12960	0.16600	2.50740	0.60000	0.61483
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.03732	0.32940	0.06480	0.09675	2.50740	0.30000	0.33135

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	0.02654	0.32940	0.02709	2.50740	0.04258			
sg13g2_sdfrbp_1	0.01860	0.02656	0.32940	0.02712	2.50740	0.04261			

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	0.03595	0.32940	0.03700	2.50740	0.05400			
sg13g2_sdfrbp_1	0.01860	0.03594	0.32940	0.03700	2.50740	0.05400			

Passive power(pJ) for D 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	0.02654	0.32940	0.02709	2.50740	0.04258			
sg13g2_sdfrbp_1	(!CLK * RESET_B * !SCE)	0.01860	0.02656	0.32940	0.02712	2.50740	0.04261			

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

Cell Name	When	Power(pJ)								
Cen Ivanic		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	(!CLK * RESET_B * !SCE)	0.01860	0.03595	0.32940	0.03700	2.50740	0.05400			
sg13g2_sdfrbp_1	(!CLK * RESET_B * !SCE)	0.01860	0.03594	0.32940	0.03700	2.50740	0.05400			

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	0.02674	0.32940	0.02728	2.50740	0.04278			
sg13g2_sdfrbp_1	0.01860	0.02677	0.32940	0.02731	2.50740	0.04280			

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	0.01215	0.32940	0.01325	2.50740	0.03025			
sg13g2_sdfrbp_1	0.01860	0.01216	0.32940	0.01324	2.50740	0.03025			

Passive power(pJ) for SCD 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	0.02674	0.32940	0.02728	2.50740	0.04278		
sg13g2_sdfrbp_1	(!CLK * RESET_B * SCE)	0.01860	0.02677	0.32940	0.02731	2.50740	0.04280		

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	0.01215	0.32940	0.01325	2.50740	0.03025			
sg13g2_sdfrbp_1	(!CLK * RESET_B * SCE)	0.01860	0.01216	0.32940	0.01324	2.50740	0.03025			

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	0.03220	0.32940	0.03368	2.50740	0.06107			
sg13g2_sdfrbp_1	0.01860	0.03223	0.32940	0.03371	2.50740	0.06112			

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	0.02146	0.32940	0.04629	2.50740	0.07480		
sg13g2_sdfrbp_1	0.01860	0.02149	0.32940	0.04632	2.50740	0.07482		

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

Call Name	Whore	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
aa12a2 adfuhn 2	(!CLK * D * RESET_B * !SCD)	0.01860	0.02511	0.32940	0.02584	2.50740	0.03908	
sg13g2_sdfrbp_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.03220	0.32940	0.03368	2.50740	0.06107	
aa12a2 adfuhn 1	(!CLK * D * RESET_B * !SCD)	0.01860	0.02512	0.32940	0.02584	2.50740	0.03908	
sg13g2_sdfrbp_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.03223	0.32940	0.03371	2.50740	0.06112	

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

Call Name	W/la are	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
12-2 -J6-h 2	(!CLK * D * RESET_B * !SCD)		0.03275	0.32940	0.03348	2.50740	0.04727	
sg13g2_sdfrbp_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.02146	0.32940	0.04629	2.50740	0.07480	
221222 24fabra 1	(!CLK * D * RESET_B * !SCD)	0.01860	0.03278	0.32940	0.03351	2.50740	0.04730	
sg13g2_sdfrbp_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.02149	0.32940	0.04632	2.50740	0.07482	

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	0.01353	0.32940	0.01454	2.50740	0.03408		
sg13g2_sdfrbp_1	0.01860	0.01354	0.32940	0.01454	2.50740	0.03409		

Passive power(pJ) for CLK falling:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfrbp_2	0.01860	0.01338	0.32940	0.01443	2.50740	0.03459		
sg13g2_sdfrbp_1	0.01860	0.01336	0.32940	0.01443	2.50740	0.03459		

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 * Q * !Q_N)	0.01860	0.01383	0.32940	0.01484	2.50740	0.03436
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.01353	0.32940	0.01454	2.50740	0.03408
sg13g2_sdfrbp_2	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.01383	0.32940	0.01484	2.50740	0.03436
	(!RESET_B * !Q * Q_N)	0.01860	0.00041	0.32940	0.00147	2.50740	0.02091
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.01363	0.32940	0.01464	2.50740	0.03418
	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	0.01382	0.32940	0.01484	2.50740	0.03437
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.01354	0.32940	0.01454	2.50740	0.03409
sg13g2_sdfrbp_1	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.01383	0.32940	0.01483	2.50740	0.03437
	(!RESET_B * !Q * Q_N)	0.01860	0.00041	0.32940	0.00147	2.50740	0.02091
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.01364	0.32940	0.01464	2.50740	0.03419

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	0.01338	0.32940	0.01443	2.50740	0.03459
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	0.02605	0.32940	0.02712	2.50740	0.04793
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	0.02431	0.32940	0.02554	2.50740	0.04650
sg13g2_sdfrbp_2	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.01316	0.32940	0.01424	2.50740	0.03439
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.01338	0.32940	0.01443	2.50740	0.03459
	(!RESET_B * !Q * Q_N)	0.01860	0.00137	0.32940	0.00244	2.50740	0.02258
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.01333	0.32940	0.01441	2.50740	0.03456

	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	0.01336	0.32940	0.01443	2.50740	0.03459
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	0.02604	0.32940	0.02713	2.50740	0.04794
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	0.02430	0.32940	0.02556	2.50740	0.04651
sg13g2_sdfrbp_1	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.01312	0.32940	0.01424	2.50740	0.03439
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.01337	0.32940	0.01443	2.50740	0.03459
	(!RESET_B * !Q * Q_N)	0.01860	0.00135	0.32940	0.00244	2.50740	0.02259
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.01331	0.32940	0.01441	2.50740	0.03457

SDFRRS



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00195	0.00196	0.00350	0.00171	0.00517	0.00299	0.30000	0.30000	

Leakage Information

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_sdfbbp_1	3962.80000	5790.66000	7346.23000			

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
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	0.30402	0.32940	0.06480	0.57602	2.50740	0.30000	1.43046
	SET_B->Q (FR)	0.01860	0.00100	0.12372	0.32940	0.06480	0.41690	2.50740	0.30000	1.34432

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
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	0.25010	0.32940	0.06480	0.50133	2.50740	0.30000	1.27528
	RESET_B->Q (FF)	0.01860	0.00100	0.20565	0.32940	0.06480	0.47364	2.50740	0.30000	1.30427

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	0.30402	0.32940	0.06480	0.57602	2.50740	0.30000	1.43046

Delay(ns) to Q falling (conditional):

Cell Name	Timing	When		Delay(ns)									
	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	0.25010	0.32940	0.06480	0.50133	2.50740	0.30000	1.27528		

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	0.20635	0.32940	0.06480	0.49995	2.50740	0.30000	1.37046
sg13g2_sdfbbp_1	RESET_B->Q_N (FR)	0.01860	0.00100	0.16090	0.32940	0.06480	0.47865	2.50740	0.30000	1.40985

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_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	0.25293	0.32940	0.06480	0.54287	2.50740	0.30000	1.30683
	SET_B->Q_N (FF)	0.01860	0.00100	0.08162	0.32940	0.06480	0.37736	2.50740	0.30000	1.23534

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing	When					Delay(ns)				
Cen Name	Arc(Dir)	vvnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	0.20635	0.32940	0.06480	0.49995	2.50740	0.30000	1.37046

Delay(ns) to Q_N 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			
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	0.25293	0.32940	0.06480	0.54287	2.50740	0.30000	1.30683			

Constraint Information

Constraints(ns) for D rising:

	T::	D.f.				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	-0.09781	1.26300	1.26300	-0.25095	2.50740	2.50740	-0.33352
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.11981	1.26300	1.26300	0.26714	2.50740	2.50740	0.35419

Constraints(ns) for D falling:

	T::	D.f.				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	-0.10514	1.26300	1.26300	-0.20508	2.50740	2.50740	-0.26564
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.15160	1.26300	1.26300	0.23746	2.50740	2.50740	0.30991

Constraints(ns) for SCD rising:

	TD:	D. C		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 -JEhh- 1	hold	CLK (R)	0.01860	0.01860	-0.12470	1.26300	1.26300	-0.29682	2.50740	2.50740	-0.39551			
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.14671	1.26300	1.26300	0.31031	2.50740	2.50740	0.41321			

Constraints(ns) for SCD falling:

	Timing	Ref				Co	onstraint(1	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 -JEhh- 1	hold	CLK (R)	0.01860	0.01860	-0.13693	1.26300	1.26300	-0.21317	2.50740	2.50740	-0.27154
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.18339	1.26300	1.26300	0.24555	2.50740	2.50740	0.31582

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	-0.10759	1.26300	1.26300	-0.28603	2.50740	2.50740	-0.38370
	setup	CLK (R)	0.01860	0.01860	0.12959	1.26300	1.26300	0.29952	2.50740	2.50740	0.40141

Constraints(ns) for SCE 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
12-2 -JEhh- 1	hold	CLK (R)	0.01860	0.01860	-0.10514	1.26300	1.26300	-0.15381	2.50740	2.50740	-0.19185
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.15160	1.26300	1.26300	0.18619	2.50740	2.50740	0.23612

Constraints(ns) for RESET_B rising:

	T::	D-f				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
12-2 -JELL 1	recovery	CLK (R)	0.01860	0.01860	0.06113	1.26300	1.26300	0.11333	2.50740	2.50740	0.14167
sg13g2_sdfbbp_1	removal	CLK (R)	0.01860	0.01860	-0.04157	1.26300	1.26300	-0.09174	2.50740	2.50740	-0.11511

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

		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	0.14069	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for SET_B 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			
	recovery	CLK (R)	0.01860	0.01860	0.01467	1.26300	1.26300	0.06746	2.50740	2.50740	0.28925			
	removal	CLK (R)	0.01860	0.01860	0.03912	1.26300	1.26300	0.09444	2.50740	2.50740	0.09445			
sg13g2_sdfbbp_1	hold	RESET_B (R)	0.01860	0.01860	-0.07580	1.26300	1.26300	-0.18079	2.50740	2.50740	-0.24498			
	setup	RESET_B (R)	0.01860	0.01860	0.09781	1.26300	1.26300	0.20777	2.50740	2.50740	0.28335			

Constraints(ns) for SET_B 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	SET_B ()	0.01860	0.00000	0.09262	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for CLK rising:

		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_sdfbbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.09583	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Constraints(ns) for CLK falling:

		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_sdfbbp_1	min_pulse_width	CLK ()	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
ag12g2 adfhbn 1	CLK	0.01860	0.00100	0.02092	0.32940	0.06480	0.02182	2.50740	0.30000	0.03136
sg13g2_sdfbbp_1	SET_B	0.01860	0.00100	0.03913	0.32940	0.06480	0.09857	2.50740	0.30000	0.33832

Internal switching power(pJ) to Q falling:

Cell Name	Immut	Power(pJ)										
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
12-2 -JELL 1	CLK	0.01860	0.00100	0.02047	0.32940	0.06480	0.02121	2.50740	0.30000	0.03120		
sg13g2_sdfbbp_1	RESET_B	0.01860	0.00100	0.04390	0.32940	0.06480	0.10269	2.50740	0.30000	0.32771		

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

Cell Name	Immut	When		Power(pJ)									
Cell Name	ınput	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	0.02092	0.32940	0.06480	0.02182	2.50740	0.30000	0.03136		

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

Cell Name	T4	t When					Power(pJ)				
Cen Name	ınpuı	when	Slew(ns) Load(pf) First Slew(ns) Load(pf) Mid Slew(ns) L							Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.02047	0.32940	0.06480	0.02121	2.50740	0.30000	0.03120

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	0.02049	0.32940	0.06480	0.02135	2.50740	0.30000	0.03130
sg13g2_sdfbbp_1	RESET_B	0.01860	0.00100	0.04389	0.32940	0.06480	0.10303	2.50740	0.30000	0.32774

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 2dfhh. 1	CLK	0.01860	0.00100	0.02093	0.32940	0.06480	0.02163	2.50740	0.30000	0.03136
sg13g2_sdfbbp_1	SET_B	0.01860	0.00100	0.03909	0.32940	0.06480	0.09818	2.50740	0.30000	0.33796

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

Cell Name	Innut	When		Power(pJ)							
Cen Name	Input	when		ew(ns) Load(pf) First Slew(ns) Load(pf) Mid Slew(ns) Load(pf)						Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.02049	0.32940	0.06480	0.02135	2.50740	0.30000	0.03130

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

Cell Name	Immut	When		Power(pJ) Slew(ns) Load(pf) First Slew(ns) Load(pf) Mid Slew(ns) Load(pf)							
Cen Name	Input	when	Slew(ns)								Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.02093	0.32940	0.06480	0.02163	2.50740	0.30000	0.03136

Passive power(pJ) for D rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.01408	0.32940	0.01431	2.50740	0.02234			

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	0.01418	0.32940	0.01437	2.50740	0.02263			

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

Call Name	XX/b or	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
12-2 - JG-L 1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	0.01408	0.32940	0.01431	2.50740	0.02234			
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	-0.00007	0.32940	0.00003	2.50740	0.00716			

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 * RESET_B * !SCE * SET_B)	0.01860	0.01418	0.32940	0.01437	2.50740	0.02263			
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	0.00625	0.32940	0.00642	2.50740	0.01360			

Passive power(pJ) for SCD rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	Slew(ns)	Last						
sg13g2_sdfbbp_1	0.01860	0.01603	0.32940	0.01613	2.50740	0.02275			

Passive power(pJ) for SCD falling:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_sdfbbp_1	0.01860	0.01852	0.32940	0.01845	2.50740	0.02578			

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

Cell Name	W/h or	Power(pJ)								
Cen Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
221222 adfibbr 1	(!CLK * RESET_B * SCE * SET_B)	0.01860	0.01603	0.32940	0.01613	2.50740	0.02275			
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * !SET_B)	0.01860	0.00751	0.32940	0.00750	2.50740	0.01346			

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

Call Name	Whon		Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
	(!CLK * RESET_B * SCE * SET_B)	0.01860	0.01852	0.32940	0.01845	2.50740	0.02578				
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * !SET_B)	0.01860	-0.00238	0.32940	-0.00233	2.50740	0.00399				

Passive power(pJ) for SCE rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	Slew(ns)	Last						
sg13g2_sdfbbp_1	0.01860	0.01338	0.32940	0.01335	2.50740	0.02312			

Passive power(pJ) for SCE falling:

Call Name		Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.01863	0.32940	0.01922	2.50740	0.02901			

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

Call Name	Where	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	0.01876	0.32940	0.01937	2.50740	0.02906	
12-21G.L 1	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	0.01338	0.32940	0.01335	2.50740	0.02312	
sg13g2_sdfbbp_1	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	0.01641	0.32940	0.01743	2.50740	0.03512	
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	0.00781	0.32940	0.00866	2.50740	0.02560	

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

Call Name	VVII- ove		Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfbbp_1 S	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	0.01863	0.32940	0.01922	2.50740	0.02901		
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	0.01674	0.32940	0.02466	2.50740	0.03459		
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	0.00646	0.32940	0.03009	2.50740	0.04869		
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	-0.00475	0.32940	-0.00402	2.50740	0.01261		

Passive power(pJ) for CLK rising:

Cell Name	Power(pJ)						
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_sdfbbp_1	0.01860	0.01497	0.32940	0.01599	2.50740	0.03530	

Passive power(pJ) for CLK falling :

Call Nama		Power(pJ)						
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfbbp_1	0.01860	0.01399	0.32940	0.01509	2.50740	0.03495		

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

Call Massa	W/I			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	0.01531	0.32940	0.01632	2.50740	0.03552
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	0.01576	0.32940	0.01675	2.50740	0.03583
sg13g2_sdfbbp_1	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	0.01497	0.32940	0.01599	2.50740	0.03530
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	0.00869	0.32940	0.00969	2.50740	0.02890
	(!RESET_B * !Q * Q_N)	0.01860	0.00336	0.32940	0.00442	2.50740	0.02366
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	0.01495	0.32940	0.01598	2.50740	0.03529

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	0.01375	0.32940	0.01483	2.50740	0.03479
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	0.02517	0.32940	0.02620	2.50740	0.04662
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	0.00665	0.32940	0.00786	2.50740	0.02851
sg13g2_sdfbbp_1	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	0.02726	0.32940	0.02847	2.50740	0.04917
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	0.01399	0.32940	0.01509	2.50740	0.03495
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	0.01376	0.32940	0.01484	2.50740	0.03479
	(!RESET_B * !Q * Q_N)	0.01860	0.00123	0.32940	0.00234	2.50740	0.02220
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	0.01395	0.32940	0.01505	2.50740	0.03491

SGCLK



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

Truth Table

I	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	0.00191	0.00230	0.00490	0.30000	

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_slgcp_1	2647.30000	3176.78000	3734.63000			

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	0.07332	0.32940	0.06480	0.33748	2.50740	0.30000	1.20482

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	0.06118	0.32940	0.06480	0.31971	2.50740	0.30000	1.12727		

Constraint Information

Constraints(ns) for GATE 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			
201202 slean 1	hold	CLK (R)	0.01860	0.01860	-0.04274	1.26300	1.26300	-0.17611	2.50740	2.50740	-0.24204			
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.06574	1.26300	1.26300	0.23901	2.50740	2.50740	0.33343			

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		
201202 slean 1	hold	CLK (R)	0.01860	0.01860	-0.06910	1.26300	1.26300	-0.20147	2.50740	2.50740	-0.29670		
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.11422	1.26300	1.26300	0.24421	2.50740	2.50740	0.35230		

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	-0.04551	1.26300	1.26300	-0.20127	2.50740	2.50740	-0.28361
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.07398	1.26300	1.26300	0.26417	2.50740	2.50740	0.37475

Constraints(ns) for SCE falling:

Timing	Dof		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
20130) algan 1	hold	CLK (R)	0.01860	0.01860	-0.07233	1.26300	1.26300	-0.16823	2.50740	2.50740	-0.24109
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.12088	1.26300	1.26300	0.20622	2.50740	2.50740	0.28904

Constraints(ns) for CLK 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_slgcp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.24322	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	0.09903	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818			

Power Information

Internal switching power(pJ) to GCLK 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_slgcp_1	CLK	0.01860	0.00100	0.01035	0.32940	0.06480	0.01077	2.50740	0.30000	0.02306

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	0.00876	0.32940	0.06480	0.01000	2.50740	0.30000	0.02336

Passive power(pJ) for GATE rising :

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_slgcp_1	0.01860	0.02346	0.32940	0.02482	2.50740	0.03746			

Passive power(pJ) for GATE falling:

Call Name		Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_slgcp_1	0.01860	0.01839	0.32940	0.03720	2.50740	0.05027					

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

Call Name	Whon	Power(pJ)							
Cell Name	vvnen	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_slgcp_1	!CLK	0.01860	0.02346	0.32940	0.02482	2.50740	0.03746		

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

Call Name	Whon			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	!CLK	0.01860	0.01839	0.32940	0.03720	2.50740	0.05027

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	0.00792	0.32940	0.00849	2.50740	0.02111

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	0.01891	0.32940	0.03598	2.50740	0.04799

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	0.00961	0.32940	0.01066	2.50740	0.02721

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	0.00772	0.32940	0.00878	2.50740	0.02625

TIE0



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

Footprint

Cell Name	Area
sg13g2_tielo	7.25760

Pin Capacitance Information

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

Call Name	Leakage(pW)			
Cell Name	Min.	Avg	Max.	
sg13g2_tielo	57.44150	57.44150	57.44150	





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

Footprint

Cell Name	Area
sg13g2_tiehi	7.25760

Pin Capacitance Information

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

Call Name	Leakage(pW)			
Cell Name	Min.	Avg	Max.	
sg13g2_tiehi	55.10960	55.10960	55.10960	

XNOR2_1



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

Truth Table

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	0.00559	0.00502	0.30000		

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_xnor2_1	436.47400	1366.74000	1932.02000					

Delay Information Delay(ns) to Y rising:

Call Name	Timing										
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	0.05539	0.32940	0.06480	0.54366	2.50740	0.30000	2.62805	
sg13g2_xnor2_1	B->Y (-R)	0.01860	0.00100	0.04799	0.32940	0.06480	0.56697	2.50740	0.30000	2.87407	

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 2.1	A->Y (-F)	0.01860	0.00100	0.04908	0.32940	0.06480	0.45295	2.50740	0.30000	2.25058
sg13g2_xnor2_1	B->Y (-F)	0.01860	0.00100	0.04205	0.32940	0.06480	0.44434	2.50740	0.30000	2.23675

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	0.07306	0.32940	0.06480	0.33823	2.50740	0.30000	1.20181
221222 mar 1	A->Y (FR)	!B	0.01860	0.00100	0.05539	0.32940	0.06480	0.54366	2.50740	0.30000	2.62805
sg13g2_xnor2_1	B->Y (RR)	A	0.01860	0.00100	0.06798	0.32940	0.06480	0.33653	2.50740	0.30000	1.20815
	B->Y (FR)	!A	0.01860	0.00100	0.04799	0.32940	0.06480	0.56697	2.50740	0.30000	2.87407

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	0.07128	0.32940	0.06480	0.43817	2.50740	0.30000	1.64954
	A->Y (RF)	!B	0.01860	0.00100	0.04908	0.32940	0.06480	0.45295	2.50740	0.30000	2.25058
sg13g2_xnor2_1	B->Y (FF)	A	0.01860	0.00100	0.07206	0.32940	0.06480	0.42546	2.50740	0.30000	1.61788
	B->Y (RF)	!A	0.01860	0.00100	0.04205	0.32940	0.06480	0.44434	2.50740	0.30000	2.23675

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
12-2 2 1	A	0.01860	0.00100	0.00975	0.32940	0.06480	0.01028	2.50740	0.30000	0.02234
sg13g2_xnor2_1	В	0.01860	0.00100	0.00999	0.32940	0.06480	0.01059	2.50740	0.30000	0.02360

Internal switching power(pJ) to Y falling:

Call Name	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	0.00887	0.32940	0.06480	0.01004	2.50740	0.30000	0.02277
sg13g2_xnor2_1	В	0.01860	0.00100	0.00944	0.32940	0.06480	0.00907	2.50740	0.30000	0.02218

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

Call Name	T4	XX/1					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	0.00975	0.32940	0.06480	0.01028	2.50740	0.30000	0.02234
12.2	A	!B	0.01860	0.00100	0.00633	0.32940	0.06480	0.00614	2.50740	0.30000	0.00882
sg13g2_xnor2_1	В	A	0.01860	0.00100	0.00999	0.32940	0.06480	0.01059	2.50740	0.30000	0.02360
	В	!A	0.01860	0.00100	0.00423	0.32940	0.06480	0.00438	2.50740	0.30000	0.00769

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

C-II N	T4	Power(pJ) When									
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	0.00887	0.32940	0.06480	0.01004	2.50740	0.30000	0.02277
12_22 1	A	!B	0.01860	0.00100	0.00629	0.32940	0.06480	0.00618	2.50740	0.30000	0.00869
sg13g2_xnor2_1	В	A	0.01860	0.00100	0.00944	0.32940	0.06480	0.00907	2.50740	0.30000	0.02218
	В	!A	0.01860	0.00100	0.00520	0.32940	0.06480	0.00542	2.50740	0.30000	0.00783

XOR2_1



sg13g2_stdcell_slow_1p35V_125C Cell Library: Process sg13g2_stdcell_slow_1p35V_125C, Voltage 1.35, 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	0.00571	0.00506	0.30000

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

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
12.2 2.1	A->X (-R)	0.01860	0.00100	0.05942	0.32940	0.06480	0.54941	2.50740	0.30000	2.63789
sg13g2_xor2_1	B->X (-R)	0.01860	0.00100	0.05074	0.32940	0.06480	0.53997	2.50740	0.30000	2.62403

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		
12.2	A->X (-F)	0.01860	0.00100	0.04517	0.32940	0.06480	0.44860	2.50740	0.30000	2.24012		
sg13g2_xor2_1	B->X (-F)	0.01860	0.00100	0.03967	0.32940	0.06480	0.46669	2.50740	0.30000	2.40683		

Delay(ns) to X 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->X (RR)	!B	0.01860	0.00100	0.07420	0.32940	0.06480	0.54388	2.50740	0.30000	2.12935
sg13g2_xor2_1	A->X (FR)	В	0.01860	0.00100	0.05942	0.32940	0.06480	0.54941	2.50740	0.30000	2.63789
	B->X (RR)	!A	0.01860	0.00100	0.07713	0.32940	0.06480	0.52950	2.50740	0.30000	2.08274
	B->X (FR)	A	0.01860	0.00100	0.05074	0.32940	0.06480	0.53997	2.50740	0.30000	2.62403

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	0.08681	0.32940	0.06480	0.33157	2.50740	0.30000	1.11214	
sg13g2_xor2_1 -	A->X (RF)	В	0.01860	0.00100	0.04517	0.32940	0.06480	0.44860	2.50740	0.30000	2.24012	
	B->X (FF)	!A	0.01860	0.00100	0.08011	0.32940	0.06480	0.33533	2.50740	0.30000	1.14218	
	B->X (RF)	A	0.01860	0.00100	0.03967	0.32940	0.06480	0.46669	2.50740	0.30000	2.40683	

Power Information

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		
aa12a2 waw2 1	A	0.01860	0.00100	0.00871	0.32940	0.06480	0.00974	2.50740	0.30000	0.02176		
sg13g2_xor2_1	В	0.01860	0.00100	0.00939	0.32940	0.06480	0.00901	2.50740	0.30000	0.02097		

Internal switching power(pJ) to X 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	A	0.01860	0.00100	0.01061	0.32940	0.06480	0.01093	2.50740	0.30000	0.02331			
sg13g2_xor2_1	В	0.01860	0.00100	0.00987	0.32940	0.06480	0.01029	2.50740	0.30000	0.02325			

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

C-II N	T4	XX/1	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	0.00653	0.32940	0.06480	0.00635	2.50740	0.30000	0.00912		
sg13g2_xor2_1	A	!B	0.01860	0.00100	0.00871	0.32940	0.06480	0.00974	2.50740	0.30000	0.02176		
	В	A	0.01860	0.00100	0.00526	0.32940	0.06480	0.00535	2.50740	0.30000	0.00769		
	В	!A	0.01860	0.00100	0.00939	0.32940	0.06480	0.00901	2.50740	0.30000	0.02097		

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	0.00644	0.32940	0.06480	0.00611	2.50740	0.30000	0.00867		
sg13g2_xor2_1	A	!B	0.01860	0.00100	0.01061	0.32940	0.06480	0.01093	2.50740	0.30000	0.02331		
	В	A	0.01860	0.00100	0.00524	0.32940	0.06480	0.00533	2.50740	0.30000	0.00818		
	В	!A	0.01860	0.00100	0.00987	0.32940	0.06480	0.01029	2.50740	0.30000	0.02325		