$sg13g2_stdcell_typ_1p20V_25C\ Library$

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_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

I	NPU'	Т	OUTPUT
A1	A2	B 1	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	0.00581	0.00608	0.00564	0.60000
sg13g2_a21oi_1	0.00301	0.00305	0.00288	0.30000

Call Name		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_a21oi_2	173.82000	228.94600	292.06000						
sg13g2_a21oi_1	86.91910	114.47700	146.03000						

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	0.04269	0.32940	0.12960	0.53745	2.50740	0.60000	2.69882
sg13g2_a21oi_2	A2->Y (FR)	0.01860	0.00100	0.05100	0.32940	0.12960	0.54545	2.50740	0.60000	2.70491
	B1->Y (FR)	0.01860	0.00100	0.04020	0.32940	0.12960	0.56002	2.50740	0.60000	2.91472
	A1->Y (FR)	0.01860	0.00100	0.04691	0.32940	0.06480	0.53690	2.50740	0.30000	2.69387
sg13g2_a21oi_1	A2->Y (FR)	0.01860	0.00100	0.05495	0.32940	0.06480	0.54629	2.50740	0.30000	2.70578
	B1->Y (FR)	0.01860	0.00100	0.04425	0.32940	0.06480	0.56081	2.50740	0.30000	2.91669

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_a21oi_2	A1->Y (RF)	0.01860	0.00100	0.03609	0.32940	0.12960	0.46704	2.50740	0.60000	2.48591
	A2->Y (RF)	0.01860	0.00100	0.04073	0.32940	0.12960	0.44997	2.50740	0.60000	2.33290
	B1->Y (RF)	0.01860	0.00100	0.02004	0.32940	0.12960	0.34004	2.50740	0.60000	1.93110
	A1->Y (RF)	0.01860	0.00100	0.03949	0.32940	0.06480	0.46742	2.50740	0.30000	2.48437
sg13g2_a21oi_1	A2->Y (RF)	0.01860	0.00100	0.04373	0.32940	0.06480	0.44985	2.50740	0.30000	2.33171
	B1->Y (RF)	0.01860	0.00100	0.02226	0.32940	0.06480	0.34096	2.50740	0.30000	1.93339

Delay(ns) to Y rising (conditional):

C HN	Timing	***					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_2	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.04020	0.32940	0.12960	0.56002	2.50740	0.60000	2.91472
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.03073	0.32940	0.12960	0.55079	2.50740	0.60000	2.90937
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	0.02566	0.32940	0.12960	0.45701	2.50740	0.60000	2.48946
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.04425	0.32940	0.06480	0.56081	2.50740	0.30000	2.91669
sg13g2_a21oi_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.03489	0.32940	0.06480	0.54966	2.50740	0.30000	2.90085
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	0.02882	0.32940	0.06480	0.45698	2.50740	0.30000	2.48663

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	0.02004	0.32940	0.12960	0.34004	2.50740	0.60000	1.93110
sg13g2_a21oi_2	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.01979	0.32940	0.12960	0.33933	2.50740	0.60000	1.92870
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	0.01955	0.32940	0.12960	0.33897	2.50740	0.60000	1.92862
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.02226	0.32940	0.06480	0.34096	2.50740	0.30000	1.93339
sg13g2_a21oi_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.02201	0.32940	0.06480	0.34027	2.50740	0.30000	1.93109
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	0.02177	0.32940	0.06480	0.33994	2.50740	0.30000	1.93077

Power Information

Internal switching power(pJ) to Y rising:

Cell Name	T4	Power(pJ)									
Cen Ivanie	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A1	0.01860	0.00100	0.00887	0.32940	0.12960	0.00884	2.50740	0.60000	0.00986	
sg13g2_a21oi_2	A2	0.01860	0.00100	0.00942	0.32940	0.12960	0.00907	2.50740	0.60000	0.01017	
	B1	0.01860	0.00100	0.00432	0.32940	0.12960	0.00483	2.50740	0.60000	0.00626	
	A1	0.01860	0.00100	0.00445	0.32940	0.06480	0.00439	2.50740	0.30000	0.00495	
sg13g2_a21oi_1	A2	0.01860	0.00100	0.00467	0.32940	0.06480	0.00448	2.50740	0.30000	0.00497	
	B1	0.01860	0.00100	0.00220	0.32940	0.06480	0.00243	2.50740	0.30000	0.00312	

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	0.00560	0.32940	0.12960	0.00529	2.50740	0.60000	0.00690
sg13g2_a21oi_2	A2	0.01860	0.00100	0.00898	0.32940	0.12960	0.00853	2.50740	0.60000	0.00957
	B1	0.01860	0.00100	0.00286	0.32940	0.12960	0.00346	2.50740	0.60000	0.00576
	A1	0.01860	0.00100	0.00313	0.32940	0.06480	0.00297	2.50740	0.30000	0.00360
sg13g2_a21oi_1	A2	0.01860	0.00100	0.00473	0.32940	0.06480	0.00453	2.50740	0.30000	0.00509
	B1	0.01860	0.00100	0.00180	0.32940	0.06480	0.00202	2.50740	0.30000	0.00318

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

Cell Name	Innut	When]	Power(pJ)				
Cell 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	0.00514	0.32940	0.12960	0.00514	2.50740	0.60000	0.00709
sg13g2_a21oi_2	B1	(!A1 * A2)	0.01860	0.00100	0.00431	0.32940	0.12960	0.00462	2.50740	0.60000	0.00656
	B1	(!A1 * !A2)	0.01860	0.00100	0.00432	0.32940	0.12960	0.00483	2.50740	0.60000	0.00626
	B1	(A1 * !A2)	0.01860	0.00100	0.00252	0.32940	0.06480	0.00248	2.50740	0.30000	0.00347
sg13g2_a21oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00221	0.32940	0.06480	0.00229	2.50740	0.30000	0.00328
	B1	(!A1 * !A2)	0.01860	0.00100	0.00220	0.32940	0.06480	0.00243	2.50740	0.30000	0.00312

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	0.00610	0.32940	0.12960	0.00669	2.50740	0.60000	0.00878
sg13g2_a21oi_2	B1	(!A1 * A2)	0.01860	0.00100	0.00286	0.32940	0.12960	0.00346	2.50740	0.60000	0.00576
	B1	(!A1 * !A2)	0.01860	0.00100	0.00273	0.32940	0.12960	0.00327	2.50740	0.60000	0.00578
	B1	(A1 * !A2)	0.01860	0.00100	0.00343	0.32940	0.06480	0.00364	2.50740	0.30000	0.00466
sg13g2_a21oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00180	0.32940	0.06480	0.00202	2.50740	0.30000	0.00318
	B1	(!A1 * !A2)	0.01860	0.00100	0.00174	0.32940	0.06480	0.00191	2.50740	0.30000	0.00322

A2210I



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00297	0.00300	0.00292	0.00302	0.00286	0.30000

Call Nama	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_a221oi_1	112.17000	157.85600	191.47900					

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	0.10679	0.32940	0.06480	0.77038	2.50740	0.30000	3.43885
	A2->Y (FR)	0.01860	0.00100	0.11862	0.32940	0.06480	0.78221	2.50740	0.30000	3.44898
sg13g2_a221oi_1	B1->Y (FR)	0.01860	0.00100	0.09544	0.32940	0.06480	0.77256	2.50740	0.30000	3.62550
	B2->Y (FR)	0.01860	0.00100	0.10734	0.32940	0.06480	0.78406	2.50740	0.30000	3.63470
	C1->Y (FR)	0.01860	0.00100	0.06084	0.32940	0.06480	0.66322	2.50740	0.30000	3.33436

Delay(ns) to Y falling:

Call Name	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->Y (RF)	0.01860	0.00100	0.05131	0.32940	0.06480	0.48809	2.50740	0.30000	2.51316
	A2->Y (RF)	0.01860	0.00100	0.05520	0.32940	0.06480	0.47036	2.50740	0.30000	2.35952
sg13g2_a221oi_1	B1->Y (RF)	0.01860	0.00100	0.04570	0.32940	0.06480	0.47495	2.50740	0.30000	2.49803
_	B2->Y (RF)	0.01860	0.00100	0.04989	0.32940	0.06480	0.45770	2.50740	0.30000	2.34459
	C1->Y (RF)	0.01860	0.00100	0.02504	0.32940	0.06480	0.34402	2.50740	0.30000	1.93594

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	0.10679	0.32940	0.06480	0.77038	2.50740	0.30000	3.43885
	A1->Y (FR)	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.09232	0.32940	0.06480	0.75642	2.50740	0.30000	3.42841
	A1->Y (FR)	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.08290	0.32940	0.06480	0.66136	2.50740	0.30000	3.06209
	A2->Y (FR)	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.11862	0.32940	0.06480	0.78221	2.50740	0.30000	3.44898
	A2->Y (FR)	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.10457	0.32940	0.06480	0.76838	2.50740	0.30000	3.43859
	A2->Y (FR)	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.09278	0.32940	0.06480	0.67095	2.50740	0.30000	3.06945
	B1->Y (FR)	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.09544	0.32940	0.06480	0.77256	2.50740	0.30000	3.62550
	B1->Y (FR)	(!A1 * A2 * B2 *	0.01860	0.00100	0.08093	0.32940	0.06480	0.75809	2.50740	0.30000	3.61398
	B1->Y (FR)	!C1) (!A1 * !A2 * B2 *	0.01860	0.00100	0.06770	0.32940	0.06480	0.65164	2.50740	0.30000	3.16207
sg13g2_a221oi_1	B2->Y (FR)	!C1) (A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.10734	0.32940	0.06480	0.78406	2.50740	0.30000	3.63470
	B2->Y (FR)	(!A1 * A2 * B1 *	0.01860	0.00100	0.09318	0.32940	0.06480	0.76976	2.50740	0.30000	3.62346
	B2->Y (FR)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.07749	0.32940	0.06480	0.66087	2.50740	0.30000	3.16880
	C1->Y (FR)	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.05796	0.32940	0.06480	0.66077	2.50740	0.30000	3.33267
	C1->Y (FR)	(!A1 * A2 * !B1 *	0.01860	0.00100	0.04607	0.32940	0.06480	0.64892	2.50740	0.30000	3.32405
	C1->Y (FR)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.06084	0.32940	0.06480	0.66322	2.50740	0.30000	3.33436
	C1->Y (FR)	(!A1 *!A2 *!B1 *B2)	0.01860	0.00100	0.04900	0.32940	0.06480	0.65234	2.50740	0.30000	3.33034
	C1->Y (FR)	(!A1 * !A2 * !B1 *	0.01860	0.00100	0.04069	0.32940	0.06480	0.55482	2.50740	0.30000	2.90800
		!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			

	A1->Y (RF)	(A2 * B1 * !B2 * !C1)	0.01860	0.00100	0.04985	0.32940	0.06480	0.48633	2.50740	0.30000	2.51313
	A1->Y (RF)	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.04923	0.32940	0.06480	0.48490	2.50740	0.30000	2.50934
	A1->Y (RF)	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.05131	0.32940	0.06480	0.48809	2.50740	0.30000	2.51316
	A2->Y (RF)	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.05376	0.32940	0.06480	0.46852	2.50740	0.30000	2.35904
	A2->Y (RF)	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.05313	0.32940	0.06480	0.46716	2.50740	0.30000	2.35546
	A2->Y (RF)	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.05520	0.32940	0.06480	0.47036	2.50740	0.30000	2.35952
	B1->Y (RF)	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.04570	0.32940	0.06480	0.47495	2.50740	0.30000	2.49803
	B1->Y (RF)	(!A1 * A2 * B2 *	0.01860	0.00100	0.04522	0.32940	0.06480	0.47365	2.50740	0.30000	2.49412
	B1->Y (RF)	!C1) (!A1 *!A2 *B2 *	0.01860	0.00100	0.04489	0.32940	0.06480	0.47324	2.50740	0.30000	2.49380
sg13g2_a221oi_1	(111)	!C1)									
	B2->Y (RF)	(A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.04989	0.32940	0.06480	0.45770	2.50740	0.30000	2.34459
	B2->Y (RF)	(!A1 * A2 * B1 *	0.01860	0.00100	0.04942	0.32940	0.06480	0.45641	2.50740	0.30000	2.34135
	B2->Y (RF)	(!A1 *!A2 *B1 *	0.01860	0.00100	0.04907	0.32940	0.06480	0.45574	2.50740	0.30000	2.34104
	C1->Y (RF)	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.02504	0.32940	0.06480	0.34402	2.50740	0.30000	1.93594
	C1->Y (RF)	(!A1 * A2 * !B1 *	0.01860	0.00100	0.02482	0.32940	0.06480	0.34334	2.50740	0.30000	1.93434
	C1->Y (RF)	(!A1 * !A2 * B1 *	0.01860	0.00100	0.02517	0.32940	0.06480	0.34402	2.50740	0.30000	1.93593
	C1->Y (RF)	!B2) (!A1 *!A2 *!B1 *B2)	0.01860	0.00100	0.02496	0.32940	0.06480	0.34336	2.50740	0.30000	1.93421
	C1->Y (RF)	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.02478	0.32940	0.06480	0.34310	2.50740	0.30000	1.93428
		!B2)									

Power Information

Internal switching power(pJ) to Y rising:

Call Name	T4		Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A1	0.01860	0.00100	0.00815	0.32940	0.06480	0.00800	2.50740	0.30000	0.00828	
	A2	0.01860	0.00100	0.00827	0.32940	0.06480	0.00808	2.50740	0.30000	0.00866	
sg13g2_a221oi_1	B1	0.01860	0.00100	0.00605	0.32940	0.06480	0.00593	2.50740	0.30000	0.00683	
	B2	0.01860	0.00100	0.00618	0.32940	0.06480	0.00600	2.50740	0.30000	0.00693	
	C1	0.01860	0.00100	0.00379	0.32940	0.06480	0.00379	2.50740	0.30000	0.00482	

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	
	A1	0.01860	0.00100	0.00492	0.32940	0.06480	0.00465	2.50740	0.30000	0.00522	
	A2	0.01860	0.00100	0.00647	0.32940	0.06480	0.00619	2.50740	0.30000	0.00670	
sg13g2_a221oi_1	B1	0.01860	0.00100	0.00330	0.32940	0.06480	0.00312	2.50740	0.30000	0.00364	
	B2	0.01860	0.00100	0.00494	0.32940	0.06480	0.00475	2.50740	0.30000	0.00523	
	C1	0.01860	0.00100	0.00193	0.32940	0.06480	0.00206	2.50740	0.30000	0.00313	

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

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

	A1	(A2 * B1 * !B2 * !C1)	0.01860	0.00100	0.00815	0.32940	0.06480	0.00800	2.50740	0.30000	0.00828
	A1	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.00788	0.32940	0.06480	0.00776	2.50740	0.30000	0.00841
	A1	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00975	0.32940	0.06480	0.00962	2.50740	0.30000	0.01003
	A2	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.00827	0.32940	0.06480	0.00808	2.50740	0.30000	0.00866
	A2	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.00805	0.32940	0.06480	0.00790	2.50740	0.30000	0.00833
	A2	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00990	0.32940	0.06480	0.00972	2.50740	0.30000	0.01050
	B1	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.00632	0.32940	0.06480	0.00609	2.50740	0.30000	0.00664
	В1	(!A1 * A2 * B2 * !C1)	0.01860	0.00100	0.00606	0.32940	0.06480	0.00594	2.50740	0.30000	0.00638
sg13g2_a221oi_1	В1	(!A1 *!A2 *B2 *	0.01860	0.00100	0.00605	0.32940	0.06480	0.00593	2.50740	0.30000	0.00683
5g-0gu	B2	(A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.00641	0.32940	0.06480	0.00621	2.50740	0.30000	0.00650
	B2	(!A1 * A2 * B1 *	0.01860	0.00100	0.00618	0.32940	0.06480	0.00604	2.50740	0.30000	0.00643
	B2	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00618	0.32940	0.06480	0.00600	2.50740	0.30000	0.00693
	C1	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.00407	0.32940	0.06480	0.00404	2.50740	0.30000	0.00525
	C1	(!A1 * A2 * !B1 *	0.01860	0.00100	0.00379	0.32940	0.06480	0.00381	2.50740	0.30000	0.00534
	C1	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00408	0.32940	0.06480	0.00405	2.50740	0.30000	0.00548
	C1	(!A1 * !A2 * !B1 * B2)	0.01860	0.00100	0.00379	0.32940	0.06480	0.00382	2.50740	0.30000	0.00533
	C1	(!A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.00379	0.32940	0.06480	0.00379	2.50740	0.30000	0.00482

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

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

	A1	(A2 * B1 * !B2 * !C1)	0.01860	0.00100	0.00655	0.32940	0.06480	0.00626	2.50740	0.30000	0.00682
	A1	(A2 * !B1 * B2 * !C1)	0.01860	0.00100	0.00492	0.32940	0.06480	0.00465	2.50740	0.30000	0.00522
	A1	(A2 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00406	0.32940	0.06480	0.00377	2.50740	0.30000	0.00434
	A2	(A1 * B1 * !B2 * !C1)	0.01860	0.00100	0.00809	0.32940	0.06480	0.00781	2.50740	0.30000	0.00814
	A2	(A1 * !B1 * B2 * !C1)	0.01860	0.00100	0.00647	0.32940	0.06480	0.00619	2.50740	0.30000	0.00670
sg13g2_a221oi_1	A2	(A1 * !B1 * !B2 * !C1)	0.01860	0.00100	0.00562	0.32940	0.06480	0.00532	2.50740	0.30000	0.00572
	B1	(A1 * !A2 * B2 * !C1)	0.01860	0.00100	0.00492	0.32940	0.06480	0.00477	2.50740	0.30000	0.00532
	B1	(!A1 * A2 * B2 * !C1)	0.01860	0.00100	0.00330	0.32940	0.06480	0.00312	2.50740	0.30000	0.00364
	B1	(!A1 *!A2 *B2 *	0.01860	0.00100	0.00324	0.32940	0.06480	0.00303	2.50740	0.30000	0.00364
	В2	(A1 * !A2 * B1 * !C1)	0.01860	0.00100	0.00657	0.32940	0.06480	0.00638	2.50740	0.30000	0.00675
	В2	(!A1 * A2 * B1 *	0.01860	0.00100	0.00494	0.32940	0.06480	0.00475	2.50740	0.30000	0.00523
	B2	(!A1 *!A2 *B1 *	0.01860	0.00100	0.00488	0.32940	0.06480	0.00465	2.50740	0.30000	0.00513
	C1	(A1 * !A2 * !B1 * !B2)	0.01860	0.00100	0.00351	0.32940	0.06480	0.00371	2.50740	0.30000	0.00476
	C1	(!A1 * A2 * !B1 *	0.01860	0.00100	0.00189	0.32940	0.06480	0.00207	2.50740	0.30000	0.00314
	C1	!B2) (!A1 *!A2 *B1 *	0.01860	0.00100	0.00355	0.32940	0.06480	0.00373	2.50740	0.30000	0.00475
	C1	!B2) (!A1 *!A2 *!B1 *B2)	0.01860	0.00100	0.00193	0.32940	0.06480	0.00206	2.50740	0.30000	0.00313
	C1	(!A1 *!A2 *!B1 *	0.01860	0.00100	0.00188	0.32940	0.06480	0.00199	2.50740	0.30000	0.00316
		!B2)									

A220I



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a22oi_1	10.84860

Pin Capacitance Information

Cell Name		Pin Cap(pf)						
	A1	A2	B1	B2	Y			
sg13g2_a22oi_1	0.00310	0.00310	0.00304	0.00302	0.30000			

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_a22oi_1	86.72860	138.86500	210.34700				

Delay Information Delay(ns) to Y rising:

Call Name	Timing	ng 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	0.05408	0.32940	0.06480	0.54502	2.50740	0.30000	2.70033
12-2 -22-1	A2->Y (FR)	0.01860	0.00100	0.06139	0.32940	0.06480	0.55207	2.50740	0.30000	2.70573
sg13g2_a22oi_1	B1->Y (FR)	0.01860	0.00100	0.05701	0.32940	0.06480	0.57274	2.50740	0.30000	2.92616
	B2->Y (FR)	0.01860	0.00100	0.04888	0.32940	0.06480	0.56301	2.50740	0.30000	2.91052

Delay(ns) to Y falling:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A1->Y (RF)	0.01860	0.00100	0.04449	0.32940	0.06480	0.47325	2.50740	0.30000	2.49097	
12-2 -22-1	A2->Y (RF)	0.01860	0.00100	0.04838	0.32940	0.06480	0.45527	2.50740	0.30000	2.33821	
sg13g2_a22oi_1	B1->Y (RF)	0.01860	0.00100	0.03929	0.32940	0.06480	0.44363	2.50740	0.30000	2.32556	
	B2->Y (RF)	0.01860	0.00100	0.03460	0.32940	0.06480	0.46104	2.50740	0.30000	2.47895	

Delay(ns) to Y rising (conditional):

Call Name	Timing	XX/1					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->Y (FR)	(A2 * B1)	0.01860	0.00100	0.05408	0.32940	0.06480	0.54502	2.50740	0.30000	2.70033
	A2->Y (FR)	(A1 * B1)	0.01860	0.00100	0.06139	0.32940	0.06480	0.55207	2.50740	0.30000	2.70573
12-222-1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.05701	0.32940	0.06480	0.57274	2.50740	0.30000	2.92616
sg13g2_a22oi_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.04797	0.32940	0.06480	0.56189	2.50740	0.30000	2.90970
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	0.04888	0.32940	0.06480	0.56301	2.50740	0.30000	2.91052
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	0.03986	0.32940	0.06480	0.55468	2.50740	0.30000	2.90612

Delay(ns) to Y falling (conditional):

C-II N	Timing	XX/1					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->Y (RF)	(A2 * B1)	0.01860	0.00100	0.04449	0.32940	0.06480	0.47325	2.50740	0.30000	2.49097
	A2->Y (RF)	(A1 * B1)	0.01860	0.00100	0.04838	0.32940	0.06480	0.45527	2.50740	0.30000	2.33821
221222 2222 1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.03929	0.32940	0.06480	0.44363	2.50740	0.30000	2.32556
sg13g2_a22oi_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.03887	0.32940	0.06480	0.44234	2.50740	0.30000	2.32190
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	0.03460	0.32940	0.06480	0.46104	2.50740	0.30000	2.47895
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	0.03422	0.32940	0.06480	0.45950	2.50740	0.30000	2.47555

Power Information

Internal switching power(pJ) to Y rising:

Call Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A1	0.01860	0.00100	0.00472	0.32940	0.06480	0.00460	2.50740	0.30000	0.00502			
12-2 -22-1	A2	0.01860	0.00100	0.00486	0.32940	0.06480	0.00464	2.50740	0.30000	0.00519			
sg13g2_a22oi_1	B1	0.01860	0.00100	0.00301	0.32940	0.06480	0.00285	2.50740	0.30000	0.00376			
	B2	0.01860	0.00100	0.00282	0.32940	0.06480	0.00274	2.50740	0.30000	0.00358			

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	0.00470	0.32940	0.06480	0.00447	2.50740	0.30000	0.00508			
12 2 22 1	A2	0.01860	0.00100	0.00627	0.32940	0.06480	0.00600	2.50740	0.30000	0.00666			
sg13g2_a22oi_1	B1	0.01860	0.00100	0.00600	0.32940	0.06480	0.00600	2.50740	0.30000	0.00648			
	B2	0.01860	0.00100	0.00434	0.32940	0.06480	0.00446	2.50740	0.30000	0.00504			

Internal switching power(pJ) to Y rising (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
	A1	(A2 * B1)	0.01860	0.00100	0.00472	0.32940	0.06480	0.00460	2.50740	0.30000	0.00502
	A2	(A1 * B1)	0.01860	0.00100	0.00486	0.32940	0.06480	0.00464	2.50740	0.30000	0.00519
12.2.22.1	B1	(A1 * !A2)	0.01860	0.00100	0.00301	0.32940	0.06480	0.00285	2.50740	0.30000	0.00376
sg13g2_a22oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00285	0.32940	0.06480	0.00273	2.50740	0.30000	0.00366
,	B2	(A1 * !A2)	0.01860	0.00100	0.00282	0.32940	0.06480	0.00274	2.50740	0.30000	0.00358
	B2	(!A1 * A2)	0.01860	0.00100	0.00259	0.32940	0.06480	0.00264	2.50740	0.30000	0.00345

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

Cell Name	Immut	When]	Power(pJ)				
Cen Name	Input	Wileii	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	(A2 * B1)	0.01860	0.00100	0.00470	0.32940	0.06480	0.00447	2.50740	0.30000	0.00508
	A2	(A1 * B1)	0.01860	0.00100	0.00627	0.32940	0.06480	0.00600	2.50740	0.30000	0.00666
12-222-: 1	B1	(A1 * !A2)	0.01860	0.00100	0.00600	0.32940	0.06480	0.00600	2.50740	0.30000	0.00648
sg13g2_a22oi_1	B1	(!A1 * A2)	0.01860	0.00100	0.00436	0.32940	0.06480	0.00438	2.50740	0.30000	0.00493
	B2	(A1 * !A2)	0.01860	0.00100	0.00434	0.32940	0.06480	0.00446	2.50740	0.30000	0.00504
	B2	(!A1 * A2)	0.01860	0.00100	0.00270	0.32940	0.06480	0.00282	2.50740	0.30000	0.00361





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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)
Cell Name	A	В	X
sg13g2_and2_2	0.00254	0.00255	0.60000
sg13g2_and2_1	0.00254	0.00254	0.30000

Call Name		Leakage(pW)						
Cell Name	Min.	Avg	Max.					
sg13g2_and2_2	199.48800	210.32000	220.80400					
sg13g2_and2_1	117.08400	137.61000	177.21900					

Delay Information Delay(ns) to X rising:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_and2_2	A->X (RR)	0.01860	0.00100	0.08208	0.32940	0.12960	0.38244	2.50740	0.60000	1.30447	
	B->X (RR)	0.01860	0.00100	0.08638	0.32940	0.12960	0.38125	2.50740	0.60000	1.30546	
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	0.06630	0.32940	0.06480	0.33800	2.50740	0.30000	1.20220	
	B->X (RR)	0.01860	0.00100	0.07086	0.32940	0.06480	0.34198	2.50740	0.30000	1.21220	

Delay(ns) to X falling:

Call Name	Timing		Delay(ns)								
Cell Name	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	0.06972	0.32940	0.12960	0.33733	2.50740	0.60000	1.11755	
sg13g2_and2_2	B->X (FF)	0.01860	0.00100	0.07450	0.32940	0.12960	0.34939	2.50740	0.60000	1.14748	
221222 2212 1	A->X (FF)	0.01860	0.00100	0.05638	0.32940	0.06480	0.29571	2.50740	0.30000	1.01289	
sg13g2_and2_1	B->X (FF)	0.01860	0.00100	0.06144	0.32940	0.06480	0.30994	2.50740	0.30000	1.04597	

Power Information

Internal switching power(pJ) to X rising:

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			
12.2 12.2	A	0.01860	0.00100	0.01040	0.32940	0.12960	0.01062	2.50740	0.60000	0.01573			
sg13g2_and2_2	В	0.01860	0.00100	0.01175	0.32940	0.12960	0.01200	2.50740	0.60000	0.01610			
12.2 12.1	A	0.01860	0.00100	0.00652	0.32940	0.06480	0.00670	2.50740	0.30000	0.01249			
sg13g2_and2_1	В	0.01860	0.00100	0.00795	0.32940	0.06480	0.00787	2.50740	0.30000	0.01267			

Internal switching power(pJ) to X falling:

Cell Name In	T4		Power(pJ)											
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
12.2 12.2	A	0.01860	0.00100	0.00925	0.32940	0.12960	0.00974	2.50740	0.60000	0.01535				
sg13g2_and2_2	В	0.01860	0.00100	0.00935	0.32940	0.12960	0.00997	2.50740	0.60000	0.01499				
aa12a2 amJ2 1	A	0.01860	0.00100	0.00564	0.32940	0.06480	0.00598	2.50740	0.30000	0.01169				
sg13g2_and2_1	В	0.01860	0.00100	0.00577	0.32940	0.06480	0.00619	2.50740	0.30000	0.01155				

AND3x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00255	0.00252	0.00253	0.60000
sg13g2_and3_1	0.00254	0.00251	0.00252	0.30000

Call Nama	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_and3_2	201.52900	224.22500	287.63800					
sg13g2_and3_1	119.09700	146.66200	244.07100					

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	0.11206	0.32940	0.12960	0.42914	2.50740	0.60000	1.39216	
sg13g2_and3_2	B->X (RR)	0.01860	0.00100	0.12109	0.32940	0.12960	0.43350	2.50740	0.60000	1.39952	
	C->X (RR)	0.01860	0.00100	0.12501	0.32940	0.12960	0.42696	2.50740	0.60000	1.36764	
	A->X (RR)	0.01860	0.00100	0.08990	0.32940	0.06480	0.37443	2.50740	0.30000	1.27672	
sg13g2_and3_1	B->X (RR)	0.01860	0.00100	0.09910	0.32940	0.06480	0.38374	2.50740	0.30000	1.29170	
	C->X (RR)	0.01860	0.00100	0.10297	0.32940	0.06480	0.38114	2.50740	0.30000	1.27002	

Delay(ns) to X falling:

Call Name	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	0.07315	0.32940	0.12960	0.34572	2.50740	0.60000	1.13512			
sg13g2_and3_2	B->X (FF)	0.01860	0.00100	0.07830	0.32940	0.12960	0.35718	2.50740	0.60000	1.16273			
	C->X (FF)	0.01860	0.00100	0.08197	0.32940	0.12960	0.36656	2.50740	0.60000	1.19032			
	A->X (FF)	0.01860	0.00100	0.06033	0.32940	0.06480	0.30569	2.50740	0.30000	1.03049			
sg13g2_and3_1	B->X (FF)	0.01860	0.00100	0.06566	0.32940	0.06480	0.31910	2.50740	0.30000	1.06211			
	C->X (FF)	0.01860	0.00100	0.06912	0.32940	0.06480	0.32953	2.50740	0.30000	1.09372			

Power Information

Internal switching power(pJ) to X rising:

Cell Name	T .		Power(pJ)										
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A	0.01860	0.00100	0.01144	0.32940	0.12960	0.01165	2.50740	0.60000	0.01613			
sg13g2_and3_2	В	0.01860	0.00100	0.01279	0.32940	0.12960	0.01298	2.50740	0.60000	0.01644			
	C	0.01860	0.00100	0.01409	0.32940	0.12960	0.01425	2.50740	0.60000	0.01765			
	A	0.01860	0.00100	0.00744	0.32940	0.06480	0.00750	2.50740	0.30000	0.01266			
sg13g2_and3_1	В	0.01860	0.00100	0.00882	0.32940	0.06480	0.00879	2.50740	0.30000	0.01290			
	C	0.01860	0.00100	0.01010	0.32940	0.06480	0.01005	2.50740	0.30000	0.01375			

Internal switching power(pJ) to X falling:

Cell Name	I4		Power(pJ)											
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
	A	0.01860	0.00100	0.00934	0.32940	0.12960	0.00965	2.50740	0.60000	0.01498				
sg13g2_and3_2	В	0.01860	0.00100	0.00952	0.32940	0.12960	0.00990	2.50740	0.60000	0.01470				
	C	0.01860	0.00100	0.00968	0.32940	0.12960	0.01010	2.50740	0.60000	0.01454				
	A	0.01860	0.00100	0.00576	0.32940	0.06480	0.00601	2.50740	0.30000	0.01135				
sg13g2_and3_1	В	0.01860	0.00100	0.00596	0.32940	0.06480	0.00617	2.50740	0.30000	0.01133				
	C	0.01860	0.00100	0.00609	0.32940	0.06480	0.00633	2.50740	0.30000	0.01128				

AND4x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00237	0.00249	0.00249	0.00250	0.60000
sg13g2_and4_1	0.00237	0.00250	0.00249	0.00250	0.30000

Cell Name	Leakage(pW)					
	Min.	Avg	Max.			
sg13g2_and4_2	203.66200	231.88900	354.47500			
sg13g2_and4_1	121.25200	151.90900	310.93500			

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	0.14227	0.32940	0.12960	0.47249	2.50740	0.60000	1.46315
	B->X (RR)	0.01860	0.00100	0.15585	0.32940	0.12960	0.48238	2.50740	0.60000	1.47862
	C->X (RR)	0.01860	0.00100	0.16410	0.32940	0.12960	0.48089	2.50740	0.60000	1.45368
	D->X (RR)	0.01860	0.00100	0.16799	0.32940	0.12960	0.47814	2.50740	0.60000	1.41888
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	0.11378	0.32940	0.06480	0.41098	2.50740	0.30000	1.34550
	B->X (RR)	0.01860	0.00100	0.12758	0.32940	0.06480	0.42413	2.50740	0.30000	1.36555
	C->X (RR)	0.01860	0.00100	0.13568	0.32940	0.06480	0.42628	2.50740	0.30000	1.35046
	D->X (RR)	0.01860	0.00100	0.13967	0.32940	0.06480	0.42559	2.50740	0.30000	1.32368

Delay(ns) to X falling:

Cell Name	Timing	Delay(ns)								
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->X (FF)	0.01860	0.00100	0.07580	0.32940	0.12960	0.35058	2.50740	0.60000	1.13875
12.214.2	B->X (FF)	0.01860	0.00100	0.08120	0.32940	0.12960	0.36202	2.50740	0.60000	1.16820
sg13g2_and4_2	C->X (FF)	0.01860	0.00100	0.08523	0.32940	0.12960	0.37112	2.50740	0.60000	1.19506
	D->X (FF)	0.01860	0.00100	0.08796	0.32940	0.12960	0.37894	2.50740	0.60000	1.22016
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	0.06355	0.32940	0.06480	0.31126	2.50740	0.30000	1.03728
	B->X (FF)	0.01860	0.00100	0.06903	0.32940	0.06480	0.32478	2.50740	0.30000	1.06868
	C->X (FF)	0.01860	0.00100	0.07299	0.32940	0.06480	0.33474	2.50740	0.30000	1.09852
	D->X (FF)	0.01860	0.00100	0.07551	0.32940	0.06480	0.34353	2.50740	0.30000	1.12740

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	0.01226	0.32940	0.12960	0.01215	2.50740	0.60000	0.01618
sg13g2_and4_2	В	0.01860	0.00100	0.01372	0.32940	0.12960	0.01364	2.50740	0.60000	0.01656
	C	0.01860	0.00100	0.01505	0.32940	0.12960	0.01491	2.50740	0.60000	0.01780
	D	0.01860	0.00100	0.01628	0.32940	0.12960	0.01618	2.50740	0.60000	0.01869
	A	0.01860	0.00100	0.00808	0.32940	0.06480	0.00821	2.50740	0.30000	0.01288
aa12a2 audd 1	В	0.01860	0.00100	0.00958	0.32940	0.06480	0.00959	2.50740	0.30000	0.01334
sg13g2_and4_1	C	0.01860	0.00100	0.01086	0.32940	0.06480	0.01084	2.50740	0.30000	0.01435
	D	0.01860	0.00100	0.01214	0.32940	0.06480	0.01211	2.50740	0.30000	0.01505

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	0.00971	0.32940	0.12960	0.01007	2.50740	0.60000	0.01495
sg13g2_and4_2	В	0.01860	0.00100	0.00978	0.32940	0.12960	0.01018	2.50740	0.60000	0.01497
	C	0.01860	0.00100	0.01004	0.32940	0.12960	0.01034	2.50740	0.60000	0.01488
	D	0.01860	0.00100	0.01017	0.32940	0.12960	0.01061	2.50740	0.60000	0.01476
	A	0.01860	0.00100	0.00609	0.32940	0.06480	0.00624	2.50740	0.30000	0.01157
aa12a2 amJ4 1	В	0.01860	0.00100	0.00621	0.32940	0.06480	0.00631	2.50740	0.30000	0.01128
sg13g2_and4_1	C	0.01860	0.00100	0.00639	0.32940	0.06480	0.00652	2.50740	0.30000	0.01131
	D	0.01860	0.00100	0.00657	0.32940	0.06480	0.00673	2.50740	0.30000	0.01133

AO21x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

I	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	0.00290	0.00289	0.00275	0.60000
sg13g2_a21o_1	0.00272	0.00281	0.00263	0.30000

Leakage Information

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_a21o_2	183.49100	224.28900	271.21000				
sg13g2_a21o_1	127.38800	158.29600	178.01100				

Delay Information Delay(ns) to X rising:

C.II N.	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->X (RR)	0.01860	0.00100	0.08637	0.32940	0.12960	0.39012	2.50740	0.60000	1.31165
sg13g2_a21o_2	A2->X (RR)	0.01860	0.00100	0.09007	0.32940	0.12960	0.38720	2.50740	0.60000	1.31298
	B1->X (RR)	0.01860	0.00100	0.05595	0.32940	0.12960	0.34675	2.50740	0.60000	1.23009
	A1->X (RR)	0.01860	0.00100	0.08077	0.32940	0.06480	0.36899	2.50740	0.30000	1.27636
sg13g2_a21o_1	A2->X (RR)	0.01860	0.00100	0.08469	0.32940	0.06480	0.36880	2.50740	0.30000	1.28164
	B1->X (RR)	0.01860	0.00100	0.05289	0.32940	0.06480	0.32766	2.50740	0.30000	1.19448

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	0.11617	0.32940	0.12960	0.38470	2.50740	0.60000	1.17771
sg13g2_a21o_2	A2->X (FF)	0.01860	0.00100	0.12569	0.32940	0.12960	0.40004	2.50740	0.60000	1.20977
	B1->X (FF)	0.01860	0.00100	0.11574	0.32940	0.12960	0.40156	2.50740	0.60000	1.23948
	A1->X (FF)	0.01860	0.00100	0.09203	0.32940	0.06480	0.33606	2.50740	0.30000	1.06228
sg13g2_a21o_1	A2->X (FF)	0.01860	0.00100	0.10055	0.32940	0.06480	0.35094	2.50740	0.30000	1.09324
	B1->X (FF)	0.01860	0.00100	0.09014	0.32940	0.06480	0.34493	2.50740	0.30000	1.10286

Delay(ns) to X rising (conditional):

Call Name	Timing	XX/1					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1->X (RR)	!B1	0.01860	0.00100	0.08637	0.32940	0.12960	0.39012	2.50740	0.60000	1.31165
	A2->X (RR)	!B1	0.01860	0.00100	0.09007	0.32940	0.12960	0.38720	2.50740	0.60000	1.31298
sg13g2_a21o_2 (1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	0.05595	0.32940	0.12960	0.34675	2.50740	0.60000	1.23009
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	0.05372	0.32940	0.12960	0.33520	2.50740	0.60000	1.19567
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	0.05354	0.32940	0.12960	0.33474	2.50740	0.60000	1.20305
	A1->X (RR)	!B1	0.01860	0.00100	0.08077	0.32940	0.06480	0.36899	2.50740	0.30000	1.27636
	A2->X (RR)	!B1	0.01860	0.00100	0.08469	0.32940	0.06480	0.36880	2.50740	0.30000	1.28164
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	0.05289	0.32940	0.06480	0.32766	2.50740	0.30000	1.19448
_	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	0.04982	0.32940	0.06480	0.31498	2.50740	0.30000	1.15530
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	0.04961	0.32940	0.06480	0.31505	2.50740	0.30000	1.16352

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
	A1->X (FF)	!B1	0.01860	0.00100	0.11617	0.32940	0.12960	0.38470	2.50740	0.60000	1.17771
	A2->X (FF)	!B1	0.01860	0.00100	0.12569	0.32940	0.12960	0.40004	2.50740	0.60000	1.20977
sg13g2_a21o_2 (FI B1-:	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	0.11574	0.32940	0.12960	0.40156	2.50740	0.60000	1.23948
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	0.10414	0.32940	0.12960	0.38321	2.50740	0.60000	1.20061
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	0.08379	0.32940	0.12960	0.35383	2.50740	0.60000	1.14554
	A1->X (FF)	!B1	0.01860	0.00100	0.09203	0.32940	0.06480	0.33606	2.50740	0.30000	1.06228
	A2->X (FF)	!B1	0.01860	0.00100	0.10055	0.32940	0.06480	0.35094	2.50740	0.30000	1.09324
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	0.09014	0.32940	0.06480	0.34493	2.50740	0.30000	1.10286
_	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	0.08002	0.32940	0.06480	0.32648	2.50740	0.30000	1.06625
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	0.06603	0.32940	0.06480	0.30594	2.50740	0.30000	1.02256

Power Information

Internal switching power(pJ) to X rising:

Call Name	T4		Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
	A1	0.01860	0.00100	0.01112	0.32940	0.12960	0.01144	2.50740	0.60000	0.01682		
sg13g2_a21o_2	A2	0.01860	0.00100	0.01269	0.32940	0.12960	0.01299	2.50740	0.60000	0.01726		
	B1	0.01860	0.00100	0.01003	0.32940	0.12960	0.01028	2.50740	0.60000	0.01698		
	A1	0.01860	0.00100	0.00722	0.32940	0.06480	0.00727	2.50740	0.30000	0.01252		
sg13g2_a21o_1	A2	0.01860	0.00100	0.00865	0.32940	0.06480	0.00857	2.50740	0.30000	0.01291		
	B1	0.01860	0.00100	0.00614	0.32940	0.06480	0.00629	2.50740	0.30000	0.01269		

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	0.01205	0.32940	0.12960	0.01219	2.50740	0.60000	0.01721	
sg13g2_a21o_2	A2	0.01860	0.00100	0.01210	0.32940	0.12960	0.01239	2.50740	0.60000	0.01698	
	B1	0.01860	0.00100	0.01004	0.32940	0.12960	0.01065	2.50740	0.60000	0.01703	
	A1	0.01860	0.00100	0.00827	0.32940	0.06480	0.00834	2.50740	0.30000	0.01312	
sg13g2_a21o_1	A2	0.01860	0.00100	0.00822	0.32940	0.06480	0.00838	2.50740	0.30000	0.01260	
	B1	0.01860	0.00100	0.00631	0.32940	0.06480	0.00674	2.50740	0.30000	0.01300	

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

C H V	_	***]	Power(pJ)				
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A1	!B1	0.01860	0.00100	0.01112	0.32940	0.12960	0.01144	2.50740	0.60000	0.01682
	A2	!B1	0.01860	0.00100	0.01269	0.32940	0.12960	0.01299	2.50740	0.60000	0.01726
	B1	(A1 * !A2)	0.01860	0.00100	0.01171	0.32940	0.12960	0.01218	2.50740	0.60000	0.01839
sg13g2_a21o_2	B1	(!A1 * A2)	0.01860	0.00100	0.01009	0.32940	0.12960	0.01033	2.50740	0.60000	0.01659
	B1	(!A1 * !A2)	0.01860	0.00100	0.01003	0.32940	0.12960	0.01028	2.50740	0.60000	0.01698
	A1	!B1	0.01860	0.00100	0.00722	0.32940	0.06480	0.00727	2.50740	0.30000	0.01252
	A2	!B1	0.01860	0.00100	0.00865	0.32940	0.06480	0.00857	2.50740	0.30000	0.01291
	B1	(A1 * !A2)	0.01860	0.00100	0.00761	0.32940	0.06480	0.00773	2.50740	0.30000	0.01391
sg13g2_a21o_1	B1	(!A1 * A2)	0.01860	0.00100	0.00621	0.32940	0.06480	0.00624	2.50740	0.30000	0.01246
	B1	(!A1 * !A2)	0.01860	0.00100	0.00614	0.32940	0.06480	0.00629	2.50740	0.30000	0.01269

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

CHN	т .	***		Power(pJ)								
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A1	!B1	0.01860	0.00100	0.01205	0.32940	0.12960	0.01219	2.50740	0.60000	0.01721	
	A2	!B1	0.01860	0.00100	0.01210	0.32940	0.12960	0.01239	2.50740	0.60000	0.01698	
	B1	(A1 * !A2)	0.01860	0.00100	0.01028	0.32940	0.12960	0.01071	2.50740	0.60000	0.01707	
	B1	(!A1 * A2)	0.01860	0.00100	0.01011	0.32940	0.12960	0.01058	2.50740	0.60000	0.01702	
	B1	(!A1 * !A2)	0.01860	0.00100	0.01004	0.32940	0.12960	0.01065	2.50740	0.60000	0.01703	
	A1	!B1	0.01860	0.00100	0.00827	0.32940	0.06480	0.00834	2.50740	0.30000	0.01312	
	A2	!B1	0.01860	0.00100	0.00822	0.32940	0.06480	0.00838	2.50740	0.30000	0.01260	
	B1	(A1 * !A2)	0.01860	0.00100	0.00641	0.32940	0.06480	0.00678	2.50740	0.30000	0.01263	
sg13g2_a21o_1	B1	(!A1 * A2)	0.01860	0.00100	0.00631	0.32940	0.06480	0.00674	2.50740	0.30000	0.01300	
	B1	(!A1 * !A2)	0.01860	0.00100	0.00632	0.32940	0.06480	0.00687	2.50740	0.30000	0.01319	

BTLx



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

I	NPUT	OUTPUT
A	TE_B	Z
0	0	0
1	0	1
-	1	HiZ

Footprint

Cell Name	Area
Centrume	711 cu
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	0.00577	0.01756	2.40000
sg13g2_ebufn_4	0.00296	0.01045	1.20000
sg13g2_ebufn_2	0.00261	0.00637	0.60000

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_ebufn_8	278.54400	689.88800	1153.55000					
sg13g2_ebufn_4	180.47700	376.42900	598.54500					
sg13g2_ebufn_2	138.43600	236.41100	331.23500					

Delay Information Delay(ns) to Z rising:

C H V	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Z (RR)	0.01860	0.01855	0.07227	0.32940	0.53595	0.57484	2.50740	2.41755	2.21962
sg13g2_ebufn_8	TE_B->Z (RR)	0.01860	0.01855	0.06657	0.32940	0.53595	0.17071	2.50740	2.41755	0.40164
	TE_B->Z (FR)	0.01860	0.01855	0.03559	0.32940	0.53595	0.53127	2.50740	2.41755	2.69216
	A->Z (RR)	0.01860	0.00984	0.07424	0.32940	0.26804	0.57513	2.50740	1.20884	2.22001
sg13g2_ebufn_4	TE_B->Z (RR)	0.01860	0.00984	0.05310	0.32940	0.26804	0.13166	2.50740	1.20884	0.28795
	TE_B->Z (FR)	0.01860	0.00984	0.03547	0.32940	0.26804	0.52953	2.50740	1.20884	2.68729
	A->Z (RR)	0.01860	0.00550	0.06308	0.32940	0.13410	0.53716	2.50740	0.60450	2.12054
sg13g2_ebufn_2	TE_B->Z (RR)	0.01860	0.00550	0.04608	0.32940	0.13410	0.10959	2.50740	0.60450	0.23667
	TE_B->Z (FR)	0.01860	0.00550	0.03553	0.32940	0.13410	0.52548	2.50740	0.60450	2.67264

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
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02955	0.08349	0.32940	0.54695	0.48417	2.50740	2.42855	1.73206
	TE_B->Z (RF)	0.01860	0.02955	0.02988	0.32940	0.54695	0.03524	2.50740	2.42855	0.10262
	TE_B->Z (FF)	0.01860	0.02955	0.09984	0.32940	0.54695	0.68747	2.50740	2.42855	2.61659
	A->Z (FF)	0.01860	0.01550	0.08576	0.32940	0.27370	0.48641	2.50740	1.21450	1.73276
sg13g2_ebufn_4	TE_B->Z (RF)	0.01860	0.01550	0.02878	0.32940	0.27370	0.03266	2.50740	1.21450	0.09742
	TE_B->Z (FF)	0.01860	0.01550	0.07619	0.32940	0.27370	0.62990	2.50740	1.21450	2.46167
	A->Z (FF)	0.01860	0.00840	0.06620	0.32940	0.13700	0.43920	2.50740	0.60740	1.61244
sg13g2_ebufn_2	TE_B->Z (RF)	0.01860	0.00840	0.02751	0.32940	0.13700	0.03190	2.50740	0.60740	0.09566
	TE_B->Z (FF)	0.01860	0.00840	0.06389	0.32940	0.13700	0.59089	2.50740	0.60740	2.36672

Power Information

Internal switching power(pJ) to Z rising:

Cell Name	T4		Power(pJ)									
Cen Name Imp	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
12-2 -b6- 0	A	0.01860	0.01855	0.03562	0.32940	0.53595	0.04166	2.50740	2.41755	0.03895		
sg13g2_ebufn_8	TE_B	0.01860	0.01855	0.00579	0.32940	0.53595	0.00471	2.50740	2.41755	0.00327		
12 2 1 6 4	A	0.01860	0.00984	0.01780	0.32940	0.26804	0.02002	2.50740	1.20884	0.01780		
sg13g2_ebufn_4	TE_B	0.01860	0.00984	0.00295	0.32940	0.26804	0.00235	2.50740	1.20884	0.00155		
12-2 -b6- 2	A	0.01860	0.00550	0.00932	0.32940	0.13410	0.01005	2.50740	0.60450	0.00866		
sg13g2_ebufn_2	TE_B	0.01860	0.00550	0.00154	0.32940	0.13410	0.00125	2.50740	0.60450	0.00086		

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	0.02955	0.03181	0.32940	0.54695	0.03560	2.50740	2.42855	0.03227		
sg13g2_ebufn_8 TE_	TE_B	0.01860	0.02955	0.00706	0.32940	0.54695	0.12093	2.50740	2.42855	0.54915		
12-2 sharfa 4	A	0.01860	0.01550	0.01593	0.32940	0.27370	0.01791	2.50740	1.21450	0.01589		
sg13g2_ebufn_4	TE_B	0.01860	0.01550	0.00375	0.32940	0.27370	0.06064	2.50740	1.21450	0.27555		
221222 shufu 2	A	0.01860	0.00840	0.00813	0.32940	0.13700	0.00899	2.50740	0.60740	0.00827		
sg13g2_ebufn_2	TE_B	0.01860	0.00840	0.00203	0.32940	0.13700	0.03056	2.50740	0.60740	0.13893		

Passive power(pJ) for A rising:

Cell Name	Power(pJ)										
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_ebufn_8	0.01860	0.01122	0.32940	0.01153	2.50740	0.02703					
sg13g2_ebufn_4	0.01860	0.00601	0.32940	0.00610	2.50740	0.01378					
sg13g2_ebufn_2	0.01860	0.00363	0.32940	0.00383	2.50740	0.01082					

Passive power(pJ) for A falling:

Cell Name	Power(pJ)										
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_ebufn_8	0.01860	0.00905	0.32940	0.00973	2.50740	0.02568					
sg13g2_ebufn_4	0.01860	0.00482	0.32940	0.00514	2.50740	0.01299					
sg13g2_ebufn_2	0.01860	0.00304	0.32940	0.00341	2.50740	0.01056					

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	-0.00304	0.32940	-0.00424	2.50740	0.00179					
sg13g2_ebufn_4	0.01860	-0.00046	0.32940	-0.00108	2.50740	0.00608					
sg13g2_ebufn_2	0.01860	0.00039	0.32940	0.00018	2.50740	0.00690					

Passive power(pJ) for TE_B falling :

Call Name	Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_ebufn_8	0.01860	0.05163	0.32940	0.05162	2.50740	0.05867				
sg13g2_ebufn_4	0.01860	0.02670	0.32940	0.02700	2.50740	0.03469				
sg13g2_ebufn_2	0.01860	0.01381	0.32940	0.01421	2.50740	0.02123				





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

C.II V	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_buf_16	0.01705	4.80000
sg13g2_buf_8	0.00857	2.40000
sg13g2_buf_4	0.00370	1.20000
sg13g2_buf_2	0.00262	0.60000
sg13g2_buf_1	0.00226	0.30000

Leakage Information

Call Massa		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_buf_16	1191.03000	1385.39000	1579.74000						
sg13g2_buf_8	595.51200	692.69000	789.86900						
sg13g2_buf_4	291.93000	337.35400	382.77900						
sg13g2_buf_2	160.52700	181.54500	202.56200						
sg13g2_buf_1	106.64500	110.31700	113.99000						

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_buf_16	A->X (RR)	0.01860	0.00100	0.05597	0.32940	1.03680	0.35011	2.50740	4.80000	1.25873
sg13g2_buf_8	A->X (RR)	0.01860	0.00100	0.05587	0.32940	0.51840	0.34900	2.50740	2.40000	1.25452
sg13g2_buf_4	A->X (RR)	0.01860	0.00100	0.07086	0.32940	0.25920	0.38491	2.50740	1.20000	1.37520
sg13g2_buf_2	A->X (RR)	0.01860	0.00100	0.05607	0.32940	0.12960	0.34436	2.50740	0.60000	1.24889
sg13g2_buf_1	A->X (RR)	0.01860	0.00100	0.04970	0.32940	0.06480	0.31780	2.50740	0.30000	1.17860

Delay(ns) to X 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
sg13g2_buf_16	A->X (FF)	0.01860	0.00100	0.06312	0.32940	1.03680	0.32890	2.50740	4.80000	1.09220
sg13g2_buf_8	A->X (FF)	0.01860	0.00100	0.06304	0.32940	0.51840	0.32838	2.50740	2.40000	1.09411
sg13g2_buf_4	A->X (FF)	0.01860	0.00100	0.06244	0.32940	0.25920	0.32509	2.50740	1.20000	1.05667
sg13g2_buf_2	A->X (FF)	0.01860	0.00100	0.06105	0.32940	0.12960	0.31700	2.50740	0.60000	1.05872
sg13g2_buf_1	A->X (FF)	0.01860	0.00100	0.05270	0.32940	0.06480	0.28721	2.50740	0.30000	0.98534

Power Information

Internal switching power(pJ) to X rising:

Call Name	T4		Power(pJ)							
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_16	A	0.01860	0.00100	0.07325	0.32940	1.03680	0.07631	2.50740	4.80000	0.12151
sg13g2_buf_8	A	0.01860	0.00100	0.03691	0.32940	0.51840	0.03851	2.50740	2.40000	0.05990
sg13g2_buf_4	A	0.01860	0.00100	0.01794	0.32940	0.25920	0.01863	2.50740	1.20000	0.02643
sg13g2_buf_2	A	0.01860	0.00100	0.00971	0.32940	0.12960	0.01005	2.50740	0.60000	0.01630
sg13g2_buf_1	A	0.01860	0.00100	0.00571	0.32940	0.06480	0.00591	2.50740	0.30000	0.01144

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	0.07064	0.32940	1.03680	0.07693	2.50740	4.80000	0.12404
sg13g2_buf_8	A	0.01860	0.00100	0.03552	0.32940	0.51840	0.03870	2.50740	2.40000	0.06175
sg13g2_buf_4	A	0.01860	0.00100	0.01792	0.32940	0.25920	0.01930	2.50740	1.20000	0.02838
sg13g2_buf_2	A	0.01860	0.00100	0.00940	0.32940	0.12960	0.01017	2.50740	0.60000	0.01688
sg13g2_buf_1	A	0.01860	0.00100	0.00560	0.32940	0.06480	0.00612	2.50740	0.30000	0.01169





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Footprint

Cell Name	Area
sg13g2_decap_4	7.25760
sg13g2_decap_8	12.70080

Pin Capacitance Information Leakage Information

Call Name		Leakage(pW)						
Cell Name	Min.	Avg	Max.					
sg13g2_decap_4	395.59000	395.59000	395.59000					
sg13g2_decap_8	791.19800	791.19800	791.19800					

DFFRRx



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_2	54.43200
sg13g2_dfrbp_1	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	0.00155	0.00518	0.00281	0.60000	0.60000	
sg13g2_dfrbp_1	0.00155	0.00513	0.00280	0.30000	0.30000	

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dfrbp_2	606.91000	686.11000	769.07900					
sg13g2_dfrbp_1	486.74700	567.01000	652.11500					

Delay Information Delay(ns) to Q rising:

Call Name	Timing		Delay(ns)										
	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	0.24357	0.32940	0.12960	0.51316	2.50740	0.60000	1.41421			
sg13g2_dfrbp_1	CLK->Q (RR)	0.01860	0.00100	0.18986	0.32940	0.06480	0.46523	2.50740	0.30000	1.35755			

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	0.20958	0.32940	0.12960	0.45376	2.50740	0.60000	1.18717		
sg13g2_dfrbp_2	RESET_B->Q (FF)	0.01860	0.00100	0.27970	0.32940	0.12960	0.56030	2.50740	0.60000	1.46468		
	CLK->Q (RF)	0.01860	0.00100	0.17233	0.32940	0.06480	0.41537	2.50740	0.30000	1.14342		
sg13g2_dfrbp_1	RESET_B->Q (FF)	0.01860	0.00100	0.24210	0.32940	0.06480	0.52184	2.50740	0.30000	1.42059		

Delay(ns) to Q_N rising:

CHN	T (D.)		Delay(ns)									
Cell Name	Timing Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dfrbp_2 sg13g2_dfrbp_1	CLK->Q_N (RR)	0.01860	0.00100	0.13914	0.32940	0.12960	0.45018	2.50740	0.60000	1.31325		
	RESET_B->Q_N (FR)	0.01860	0.00100	0.21075	0.32940	0.12960	0.55503	2.50740	0.60000	1.58929		
	CLK->Q_N (RR)	0.01860	0.00100	0.13442	0.32940	0.06480	0.43524	2.50740	0.30000	1.29570		
	RESET_B->Q_N (FR)	0.01860	0.00100	0.20464	0.32940	0.06480	0.53955	2.50740	0.30000	1.57182		

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	0.15810	0.32940	0.12960	0.46786	2.50740	0.60000	1.24008		
sg13g2_dfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	0.14607	0.32940	0.06480	0.44110	2.50740	0.30000	1.21058		

Constraint Information

Constraints(ns) for D rising:

	Timing 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	
12-2 dfb 2	hold	CLK (R)	0.01860	0.01860	-0.05624	1.26300	1.26300	-0.19698	2.50740	2.50740	-0.25383	
sg13g2_dfrbp_2	setup	CLK (R)	0.01860	0.01860	0.11003	1.26300	1.26300	0.24825	2.50740	2.50740	0.30696	
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.05624	1.26300	1.26300	-0.19968	2.50740	2.50740	-0.25678	
sg13g2_dfrbp_1	setup	CLK (R)	0.01860	0.01860	0.11248	1.26300	1.26300	0.24825	2.50740	2.50740	0.30696	

Constraints(ns) for D falling:

	Timing 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	
12 2 16 1 2	hold	CLK (R)	0.01860	0.01860	-0.03179	1.26300	1.26300	-0.15920	2.50740	2.50740	-0.23908	
sg13g2_dfrbp_2	setup	CLK (R)	0.01860	0.01860	0.11492	1.26300	1.26300	0.24555	2.50740	2.50740	0.33943	
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.03179	1.26300	1.26300	-0.16190	2.50740	2.50740	-0.24203	
sg13g2_dfrbp_1	setup	CLK (R)	0.01860	0.01860	0.11492	1.26300	1.26300	0.24555	2.50740	2.50740	0.33648	

Constraints(ns) for RESET_B rising:

	Timing	D. C		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		
12.2 161. 2	recovery	CLK (R)	0.01860	0.01860	0.11737	1.26300	1.26300	0.27254	2.50740	2.50740	0.37484		
sg13g2_dfrbp_2	removal	CLK (R)	0.01860	0.01860	-0.10270	1.26300	1.26300	-0.26174	2.50740	2.50740	-0.36599		
12-2 Jf.h. 1	recovery	CLK (R)	0.01860	0.01860	0.11981	1.26300	1.26300	0.26984	2.50740	2.50740	0.37484		
sg13g2_dfrbp_1	removal	CLK (R)	0.01860	0.01860	-0.10270	1.26300	1.26300	-0.25904	2.50740	2.50740	-0.36304		

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	0.11505	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 P	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_dfrbp_2	min_pulse_width	CLK ()	0.01860	0.00000	0.13748	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	0.13107	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_dfrbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.13107	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Power Information

Internal switching power(pJ) to Q rising:

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	0.03722	0.32940	0.12960	0.13090	2.50740	0.60000	0.47806		
sg13g2_dfrbp_1	CLK	0.01860	0.00100	0.03007	0.32940	0.06480	0.07657	2.50740	0.30000	0.25400		

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		
12 2 16 1 2	CLK	0.01860	0.00100	0.03768	0.32940	0.12960	0.13162	2.50740	0.60000	0.47892		
sg13g2_dfrbp_2	RESET_B	0.01860	0.00100	0.02841	0.32940	0.12960	0.12219	2.50740	0.60000	0.46443		
12-2 Jf-h 1	CLK	0.01860	0.00100	0.03079	0.32940	0.06480	0.07740	2.50740	0.30000	0.25534		
sg13g2_dfrbp_1	RESET_B	0.01860	0.00100	0.02143	0.32940	0.06480	0.06786	2.50740	0.30000	0.24101		

Internal switching power(pJ) to Q_N rising:

Cell Name	Immut		Power(pJ)									
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
42.2.10.12	CLK	0.01860	0.00100	0.03773	0.32940	0.12960	0.13211	2.50740	0.60000	0.47946		
sg13g2_dfrbp_2	RESET_B	0.01860	0.00100	0.02845	0.32940	0.12960	0.12278	2.50740	0.60000	0.46528		
12.2 16.1 1	CLK	0.01860	0.00100	0.03082	0.32940	0.06480	0.07767	2.50740	0.30000	0.25555		
sg13g2_dfrbp_1	RESET_B	0.01860	0.00100	0.02142	0.32940	0.06480	0.06825	2.50740	0.30000	0.24144		

Internal switching power(pJ) to Q_N falling:

Cell Name Input	I4		Power(pJ)									
	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_dfrbp_2	CLK	0.01860	0.00100	0.03723	0.32940	0.12960	0.13027	2.50740	0.60000	0.47698		
sg13g2_dfrbp_1	CLK	0.01860	0.00100	0.03009	0.32940	0.06480	0.07630	2.50740	0.30000	0.25395		

Passive power(pJ) for D rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dfrbp_2	0.01860	0.00152	0.32940	0.00160	2.50740	0.00467				
sg13g2_dfrbp_1	0.01860	0.00152	0.32940	0.00160	2.50740	0.00467				

Passive power(pJ) for D falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dfrbp_2	0.01860	0.00116	0.32940	0.00127	2.50740	0.00448				
sg13g2_dfrbp_1	0.01860	0.00115	0.32940	0.00126	2.50740	0.00447				

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	0.00152	0.32940	0.00160	2.50740	0.00467
sg13g2_dfrbp_2	(!CLK * RESET_B)	0.01860	0.01178	0.32940	0.01181	2.50740	0.01490
	(!CLK * !RESET_B)	0.01860	-0.00003	0.32940	-0.00003	2.50740	-0.00002
	CLK	0.01860	0.00152	0.32940	0.00160	2.50740	0.00467
sg13g2_dfrbp_1	(!CLK * RESET_B)	0.01860	0.01180	0.32940	0.01183	2.50740	0.01492
	(!CLK * !RESET_B)	0.01860	-0.00003	0.32940	-0.00003	2.50740	-0.00002

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

Call Name	When			Powe	r(pJ)		
Cell Name	when	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	CLK	0.01860	0.00116	0.32940	0.00127	2.50740	0.00448
sg13g2_dfrbp_2	(!CLK * RESET_B)	0.01860	0.00880	0.32940	0.00880	2.50740	0.01226
	(!CLK * !RESET_B)	0.01860	0.00025	0.32940	0.00026	2.50740	0.00026
	CLK	0.01860	0.00115	0.32940	0.00126	2.50740	0.00447
sg13g2_dfrbp_1	(!CLK * RESET_B)	0.01860	0.00878	0.32940	0.00878	2.50740	0.01222
	(!CLK * !RESET_B)	0.01860	0.00025	0.32940	0.00026	2.50740	0.00026

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	0.00376	0.32940	0.00368	2.50740	0.00602				
sg13g2_dfrbp_1	0.01860	0.00371	0.32940	0.00364	2.50740	0.00599				

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	0.00907	0.32940	0.00855	2.50740	0.01253				
sg13g2_dfrbp_1	0.01860	0.00909	0.32940	0.00856	2.50740	0.01254				

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
	(CLK * D * !Q * Q_N)	0.01860	0.00376	0.32940	0.00368	2.50740	0.00602
sg13g2_dfrbp_2	(CLK * !D * !Q * Q_N)	0.01860	0.00120	0.32940	0.00121	2.50740	0.00120
	(!CLK * D * !Q * Q_N)	0.01860	0.01415	0.32940	0.01394	2.50740	0.01727
	(!CLK * !D * !Q * Q_N)	0.01860	0.00131	0.32940	0.00131	2.50740	0.00131
	(CLK * D * !Q * Q_N)	0.01860	0.00371	0.32940	0.00364	2.50740	0.00599
callad dfulm 1	(CLK * !D * !Q * Q_N)	0.01860	0.00117	0.32940	0.00117	2.50740	0.00117
sg13g2_dfrbp_1	(!CLK * D * !Q * Q_N)	0.01860	0.01413	0.32940	0.01392	2.50740	0.01726
	(!CLK * !D * !Q * Q_N)	0.01860	0.00127	0.32940	0.00127	2.50740	0.00127

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

C II N	***			Powe	er(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	0.03701	0.32940	0.03649	2.50740	0.04486
	(CLK * !D * !Q * Q_N)	0.01860	-0.00076	0.32940	-0.00094	2.50740	-0.00100
	(!CLK * D * !Q * Q_N)	0.01860	0.00907	0.32940	0.00855	2.50740	0.01253
	(!CLK * !D * !Q * Q_N)	0.01860	-0.00090	0.32940	-0.00102	2.50740	-0.00106
	(CLK * D * !Q * Q_N)	0.01860	0.02994	0.32940	0.02943	2.50740	0.03772
12 2 16 1 1	(CLK * !D * !Q * Q_N)	0.01860	-0.00072	0.32940	-0.00090	2.50740	-0.00097
sg13g2_dfrbp_1	(!CLK * D * !Q * Q_N)	0.01860	0.00909	0.32940	0.00856	2.50740	0.01254
	(!CLK * !D * !Q * Q_N)	0.01860	-0.00086	0.32940	-0.00098	2.50740	-0.00102

Passive power(pJ) for CLK rising:

Cell Name			Powe	r(pJ)		
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_2	0.01860	0.01113	0.32940	0.01098	2.50740	0.01903
sg13g2_dfrbp_1	0.01860	0.01107	0.32940	0.01093	2.50740	0.01898

Passive power(pJ) for CLK falling:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dfrbp_2	0.01860	0.02069	0.32940	0.02066	2.50740	0.02912			
sg13g2_dfrbp_1	0.01860	0.02068	0.32940	0.02066	2.50740	0.02913			

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

Call Name	W/h or		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
	(D * RESET_B * Q * !Q_N)	0.01860	0.01113	0.32940	0.01098	2.50740	0.01903			
sg13g2_dfrbp_2	(D * !RESET_B * !Q * Q_N)	0.01860	0.01167	0.32940	0.01154	2.50740	0.01954			
	(!D * RESET_B * !Q * Q_N)	0.01860	0.01088	0.32940	0.01076	2.50740	0.01878			
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.01167	0.32940	0.01156	2.50740	0.01956			
	(D * RESET_B * Q * !Q_N)	0.01860	0.01107	0.32940	0.01093	2.50740	0.01898			
221222 dfuku 1	(D * !RESET_B * !Q * Q_N)	0.01860	0.01159	0.32940	0.01148	2.50740	0.01949			
sg13g2_dfrbp_1	(!D * RESET_B * !Q * Q_N)	0.01860	0.01082	0.32940	0.01070	2.50740	0.01873			
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.01160	0.32940	0.01150	2.50740	0.01951			

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

Call Name	W 71			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(D * RESET_B * Q * !Q_N)	0.01860	0.02078	0.32940	0.02075	2.50740	0.02919
	(D * RESET_B * !Q * Q_N)	0.01860	0.02069	0.32940	0.02066	2.50740	0.02912
sg13g2_dfrbp_2	(D * !RESET_B * !Q * Q_N)	0.01860	0.01077	0.32940	0.01079	2.50740	0.01902
	(!D * RESET_B * Q * !Q_N)	0.01860	0.04930	0.32940	0.04599	2.50740	0.05422
	(!D * RESET_B * !Q * Q_N)	0.01860	0.01075	0.32940	0.01078	2.50740	0.01901
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.01076	0.32940	0.01077	2.50740	0.01900
	(D * RESET_B * Q * !Q_N)	0.01860	0.02072	0.32940	0.02071	2.50740	0.02916
	(D * RESET_B * !Q * Q_N)	0.01860	0.02068	0.32940	0.02066	2.50740	0.02913
callar dfrhn 1	(D * !RESET_B * !Q * Q_N)	0.01860	0.01073	0.32940	0.01076	2.50740	0.01898
sg13g2_dfrbp_1	(!D * RESET_B * Q * !Q_N)	0.01860	0.04042	0.32940	0.03901	2.50740	0.04722
	(!D * RESET_B * !Q * Q_N)	0.01860	0.01071	0.32940	0.01075	2.50740	0.01897
	(!D * !RESET_B * !Q * Q_N)	0.01860	0.01072	0.32940	0.01074	2.50740	0.01896

DFRBPQx



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00142	0.00513	0.00278	0.60000
sg13g2_dfrbpq_1	0.00142	0.00509	0.00277	0.30000

Leakage Information

Cell Name	Leakage(pW)						
	Min.	Avg	Max.				
sg13g2_dfrbpq_2	519.83600	573.12100	670.32200				
sg13g2_dfrbpq_1	443.21100	510.51600	593.69200				

Delay Information Delay(ns) to Q rising:

Cell Name	Timing		Delay(ns)								
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dfrbpq_2	CLK->Q (RR)	0.01860	0.00100	0.16748	0.32940	0.12960	0.45597	2.50740	0.60000	1.34157	
sg13g2_dfrbpq_1	CLK->Q (RR)	0.01860	0.00100	0.15631	0.32940	0.06480	0.43869	2.50740	0.30000	1.32417	

Delay(ns) to Q falling:

Cell Name	Timing	Delay(ns)								
Cen Ivame	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	0.16680	0.32940	0.12960	0.42114	2.50740	0.60000	1.14765
	RESET_B->Q (FF)	0.01860	0.00100	0.23275	0.32940	0.12960	0.52392	2.50740	0.60000	1.42082
	CLK->Q (RF)	0.01860	0.00100	0.15429	0.32940	0.06480	0.40047	2.50740	0.30000	1.12629
sg13g2_dfrbpq_1	RESET_B->Q (FF)	0.01860	0.00100	0.22145	0.32940	0.06480	0.50484	2.50740	0.30000	1.40086

Constraint Information

Constraints(ns) for D rising:

	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
42.2.18.1	hold	CLK (R)	0.01860	0.01860	-0.06113	1.26300	1.26300	-0.20238	2.50740	2.50740	-0.25973
sg13g2_dfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.11248	1.26300	1.26300	0.24825	2.50740	2.50740	0.30696
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.05868	1.26300	1.26300	-0.19968	2.50740	2.50740	-0.25973
sg13g2_dfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.11248	1.26300	1.26300	0.24825	2.50740	2.50740	0.30696

Constraints(ns) for D falling:

	T:	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
12.2 16.1 2	hold	CLK (R)	0.01860	0.01860	-0.03423	1.26300	1.26300	-0.16190	2.50740	2.50740	-0.23612
sg13g2_dfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.11248	1.26300	1.26300	0.24285	2.50740	2.50740	0.33352
	hold	CLK (R)	0.01860	0.01860	-0.03423	1.26300	1.26300	-0.16190	2.50740	2.50740	-0.23612
sg13g2_dfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.11248	1.26300	1.26300	0.24285	2.50740	2.50740	0.33352

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		
12 2 16 1 2	recovery	CLK (R)	0.01860	0.01860	0.11981	1.26300	1.26300	0.27254	2.50740	2.50740	0.37484		
sg13g2_dfrbpq_2	removal	CLK (R)	0.01860	0.01860	-0.10025	1.26300	1.26300	-0.25634	2.50740	2.50740	-0.36009		
12.2 16.1 1	recovery	CLK (R)	0.01860	0.01860	0.11981	1.26300	1.26300	0.26984	2.50740	2.50740	0.37484		
sg13g2_dfrbpq_1	removal	CLK (R)	0.01860	0.01860	-0.10025	1.26300	1.26300	-0.25634	2.50740	2.50740	-0.36009		

Constraints(ns) for RESET_B falling:

		Ref Pin(trans)		Constraint(ns)									
Cell Name T	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	0.11185	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_dfrbpq_2	min_pulse_width	CLK ()	0.01860	0.00000	0.08942	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	Ref Pin(trans)		Constraint(ns)									
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dfrbpq_2	min_pulse_width	CLK ()	0.01860	0.00000	0.13107	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_dfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.13107	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 Inpu	Input		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	0.02838	0.32940	0.12960	0.02891	2.50740	0.60000	0.03726			
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	0.02511	0.32940	0.06480	0.02517	2.50740	0.30000	0.03346			

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 dfuhna l	CLK	0.01860	0.00100	0.02905	0.32940	0.12960	0.03028	2.50740	0.60000	0.03882		
sg13g2_dfrbpq_2	RESET_B	0.01860	0.00100	0.01935	0.32940	0.12960	0.02024	2.50740	0.60000	0.02417		
12-2 Jedan 1	CLK	0.01860	0.00100	0.02596	0.32940	0.06480	0.02652	2.50740	0.30000	0.03509		
sg13g2_dfrbpq_1	RESET_B	0.01860	0.00100	0.01633	0.32940	0.06480	0.01672	2.50740	0.30000	0.02074		

Passive power(pJ) for D rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dfrbpq_2	0.01860	0.00153	0.32940	0.00160	2.50740	0.00467					
sg13g2_dfrbpq_1	0.01860	0.00152	0.32940	0.00160	2.50740	0.00467					

Passive power(pJ) for D falling:

Call Name		Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dfrbpq_2	0.01860	0.00116	0.32940	0.00127	2.50740	0.00448					
sg13g2_dfrbpq_1	0.01860	0.00109	0.32940	0.00120	2.50740	0.00441					

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	0.00153	0.32940	0.00160	2.50740	0.00467
sg13g2_dfrbpq_2	(!CLK * RESET_B)	0.01860	0.01178	0.32940	0.01181	2.50740	0.01490
	(!CLK * !RESET_B)	0.01860	-0.00003	0.32940	-0.00002	2.50740	-0.00002
	CLK	0.01860	0.00152	0.32940	0.00160	2.50740	0.00467
sg13g2_dfrbpq_1	(!CLK * RESET_B)	0.01860	0.01180	0.32940	0.01183	2.50740	0.01492
	(!CLK * !RESET_B)	0.01860	-0.00003	0.32940	-0.00003	2.50740	-0.00002

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

Call Name	W/le ove		Power(pJ)									
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
	CLK	0.01860	0.00116	0.32940	0.00127	2.50740	0.00448					
sg13g2_dfrbpq_2	(!CLK * RESET_B)	0.01860	0.00879	0.32940	0.00880	2.50740	0.01224					
	(!CLK * !RESET_B)	0.01860	0.00025	0.32940	0.00026	2.50740	0.00026					
	CLK	0.01860	0.00109	0.32940	0.00120	2.50740	0.00441					
sg13g2_dfrbpq_1	(!CLK * RESET_B)	0.01860	0.00878	0.32940	0.00878	2.50740	0.01222					
	(!CLK * !RESET_B)	0.01860	0.00025	0.32940	0.00026	2.50740	0.00026					

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	0.00375	0.32940	0.00367	2.50740	0.00601
sg13g2_dfrbpq_1	0.01860	0.00371	0.32940	0.00363	2.50740	0.00599

Passive power(pJ) for RESET_B falling :

Cell Name		Power(pJ)						
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dfrbpq_2	0.01860	0.00906	0.32940	0.00855	2.50740	0.01253		
sg13g2_dfrbpq_1	0.01860	0.00909	0.32940	0.00857	2.50740	0.01254		

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

Call Name	Whore	Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(CLK * D * !Q)	0.01860	0.00375	0.32940	0.00367	2.50740	0.00601		
sal2a2 dfubna 2	(CLK * !D * !Q)	0.01860	0.00120	0.32940	0.00120	2.50740	0.00120		
sg13g2_dfrbpq_2	(!CLK * D * !Q)	0.01860	0.01414	0.32940	0.01393	2.50740	0.01727		
	(!CLK * !D * !Q)	0.01860	0.00130	0.32940	0.00130	2.50740	0.00130		
	(CLK * D * !Q)	0.01860	0.00371	0.32940	0.00363	2.50740	0.00599		
sg13g2_dfrbpq_1	(CLK * !D * !Q)	0.01860	0.00117	0.32940	0.00117	2.50740	0.00116		
	(!CLK * D * !Q)	0.01860	0.01415	0.32940	0.01392	2.50740	0.01726		
	(!CLK * !D * !Q)	0.01860	0.00128	0.32940	0.00127	2.50740	0.00127		

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

Call Name	XX 71			Powe	er(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(CLK * D * !Q)	0.01860	0.02859	0.32940	0.02807	2.50740	0.03627
collad dfuhus 2	(CLK * !D * !Q)	0.01860	-0.00075	0.32940	-0.00093	2.50740	-0.00100
sg13g2_dfrbpq_2	(!CLK * D * !Q)	0.01860	0.00906	0.32940	0.00855	2.50740	0.01253
	(!CLK * !D * !Q)	0.01860	-0.00090	0.32940	-0.00102	2.50740	-0.00106
	(CLK * D * !Q)	0.01860	0.02560	0.32940	0.02508	2.50740	0.03329
221222 dfuhua 1	(CLK * !D * !Q)	0.01860	-0.00072	0.32940	-0.00090	2.50740	-0.00097
sg13g2_dfrbpq_1	(!CLK * D * !Q)	0.01860	0.00909	0.32940	0.00857	2.50740	0.01254
	(!CLK * !D * !Q)	0.01860	-0.00087	0.32940	-0.00098	2.50740	-0.00102

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	0.01110	0.32940	0.01097	2.50740	0.01903
sg13g2_dfrbpq_1	0.01860	0.01105	0.32940	0.01091	2.50740	0.01899

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	0.02070	0.32940	0.02067	2.50740	0.02913		
sg13g2_dfrbpq_1	0.01860	0.02066	0.32940	0.02066	2.50740	0.02913		

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

Call Name	Whom			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(D * RESET_B * Q)	0.01860	0.01110	0.32940	0.01097	2.50740	0.01903
sollar dfuhra 1	(D * !RESET_B * !Q)	0.01860	0.01166	0.32940	0.01153	2.50740	0.01955
sg13g2_dfrbpq_2	(!D * RESET_B * !Q)	0.01860	0.01089	0.32940	0.01075	2.50740	0.01879
	(!D * !RESET_B	0.01860	0.01166	0.32940	0.01155	2.50740	0.01957
	(D * RESET_B * Q)	0.01860	0.01105	0.32940	0.01091	2.50740	0.01899
callad dfuhna 1	(D * !RESET_B * !Q)	0.01860	0.01158	0.32940	0.01147	2.50740	0.01949
sg13g2_dfrbpq_1	(!D * RESET_B * !Q)	0.01860	0.01083	0.32940	0.01069	2.50740	0.01873
	(!D * !RESET_B	0.01860	0.01161	0.32940	0.01149	2.50740	0.01951

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

Call Name	W/la are			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(D * RESET_B * Q)	0.01860	0.02153	0.32940	0.02153	2.50740	0.02997
	(D * RESET_B * !Q)	0.01860	0.02070	0.32940	0.02067	2.50740	0.02913
12-2 Jful 2	(D * !RESET_B * !Q)	0.01860	0.01074	0.32940	0.01079	2.50740	0.01901
sg13g2_dfrbpq_2	(!D * RESET_B * Q)	0.01860	0.03860	0.32940	0.03872	2.50740	0.04697
	(!D * RESET_B * !Q)	0.01860	0.01073	0.32940	0.01078	2.50740	0.01900
	(!D * !RESET_B	0.01860	0.01073	0.32940	0.01077	2.50740	0.01900
	(D * RESET_B * Q)	0.01860	0.02109	0.32940	0.02110	2.50740	0.02955
	(D * RESET_B * !Q)	0.01860	0.02066	0.32940	0.02066	2.50740	0.02913
aa12a2 dfuhna 1	(D * !RESET_B * !Q)	0.01860	0.01072	0.32940	0.01076	2.50740	0.01898
sg13g2_dfrbpq_1	(!D * RESET_B * Q)	0.01860	0.03504	0.32940	0.03524	2.50740	0.04355
	(!D * RESET_B * !Q)	0.01860	0.01069	0.32940	0.01075	2.50740	0.01897
	(!D * !RESET_B * !Q)	0.01860	0.01070	0.32940	0.01074	2.50740	0.01897

DLHQ



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

I	NPUT	OUTPUT
D	GATE	Q
X	0	IQ
0	1	0
1	1	1

Footprint

Cell Name	Area			
sg13g2_dlhq_1	30.84480			

Pin Capacitance Information

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

Leakage Information

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_dlhq_1	339.70200	368.53700	417.21100			

Delay Information Delay(ns) to Q rising:

Cell Name Timing Arc(Dir)		Delay(ns)								
	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	D->Q (RR)	0.01860	0.00100	0.17648	0.32940	0.06480	0.44433	2.50740	0.30000	1.28627
sg13g2_dlhq_1	GATE->Q (RR)	0.01860	0.00100	0.15050	0.32940	0.06480	0.42015	2.50740	0.30000	1.24842

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 W 1	D->Q (FF)	0.01860	0.00100	0.15621	0.32940	0.06480	0.38782	2.50740	0.30000	1.06173		
sg13g2_dlhq_1	GATE->Q (RF)	0.01860	0.00100	0.16055	0.32940	0.06480	0.39563	2.50740	0.30000	1.06532		

Constraint Information

Constraints(ns) for D rising:

	Timina	Def	Constraint(ns)									
Cell Name	Timing Check P	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 W. 1	hold	GATE (F)	0.01860	0.01860	-0.09536	1.26300	1.26300	-0.22666	2.50740	2.50740	-0.27744	
sg13g2_dlhq_1	setup	GATE (F)	0.01860	0.01860	0.10270	1.26300	1.26300	0.25634	2.50740	2.50740	0.32467	

Constraints(ns) for D falling:

	T::	9	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	
201202 dlb 2 1	hold	GATE (F)	0.01860	0.01860	-0.03668	1.26300	1.26300	-0.00810	2.50740	2.50740	0.02066	
sg13g2_dlhq_1	setup	GATE (F)	0.01860	0.01860	0.04646	1.26300	1.26300	0.01619	2.50740	2.50740	-0.01181	

Constraints(ns) for GATE rising:

		Ref		Constraint(ns)									
Cell Name	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_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:

Call Name	T4									
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	0.01444	0.32940	0.06480	0.01473	2.50740	0.30000	0.01463
sg13g2_dlhq_1	GATE	0.01860	0.00100	0.01231	0.32940	0.06480	0.01250	2.50740	0.30000	0.01278

Internal switching power(pJ) to Q falling:

Call Name	T4									
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	0.01524	0.32940	0.06480	0.01558	2.50740	0.30000	0.01541
sg13g2_dlhq_1	GATE	0.01860	0.00100	0.01345	0.32940	0.06480	0.01411	2.50740	0.30000	0.01428

Passive power(pJ) for D rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dlhq_1	0.01860	0.00373	0.32940	0.00377	2.50740	0.00934					

Passive power(pJ) for D falling:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dlhq_1	0.01860	0.00375	0.32940	0.00390	2.50740	0.00971					

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	0.00373	0.32940	0.00377	2.50740	0.00934				
	(!GATE * !Q)	0.01860	0.00368	0.32940	0.00376	2.50740	0.00937				

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	0.00367	0.32940	0.00389	2.50740	0.00974				
	(!GATE * !Q)	0.01860	0.00375	0.32940	0.00390	2.50740	0.00971				

Passive power(pJ) for GATE rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	0.01860	0.00833	0.32940	0.00830	2.50740	0.01525				

Passive power(pJ) for GATE falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	0.01860	0.01480	0.32940	0.01522	2.50740	0.02249				

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

Cell Name	Whon		Power(pJ)								
	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	13g2_dlhq_1 (!D * !Q)		0.00833	0.32940	0.00830	2.50740	0.01525				

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

Cell Name	Whon		Power(pJ)								
	When	Slew(ns) First		Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_dlhq_1	1 (!D * !Q) 0.018		0.01480	0.32940	0.01522	2.50740	0.02249				

DLHRQ



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

	INPUT	ı	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	GATE	Q	
sg13g2_dlhrq_1	0.00213	0.00295	0.00219	0.30000

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dlhrq_1	350.18500	397.18900	438.99100					

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_dlhrq_1	D->Q (RR)	0.01860	0.00100	0.18717	0.32940	0.06480	0.45977	2.50740	0.30000	1.29827				
	GATE->Q (RR)	0.01860	0.00100	0.16842	0.32940	0.06480	0.44453	2.50740	0.30000	1.27266				

Delay(ns) to Q falling:

Call Name	Timing		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	0.16499	0.32940	0.06480	0.39908	2.50740	0.30000	1.07948				
sg13g2_dlhrq_1	GATE->Q (RF)	0.01860	0.00100	0.17142	0.32940	0.06480	0.41168	2.50740	0.30000	1.09330				
	RESET_B->Q (FF)	0.01860	0.00100	0.06543	0.32940	0.06480	0.32080	2.50740	0.30000	1.07562				

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			
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	-0.08558	1.26300	1.26300	-0.20238	2.50740	2.50740	-0.24498			
	setup	GATE (F)	0.01860	0.01860	0.09781	1.26300	1.26300	0.24015	2.50740	2.50740	0.30401			

Constraints(ns) for D falling:

		Dof		Constraint(ns)											
Cell Name		Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last				
10.0 111	hold	GATE (F)	0.01860	0.01860	-0.04157	1.26300	1.26300	-0.00540	2.50740	2.50740	0.02361				
sg13g2_dlhrq_1	setup	GATE (F)	0.01860	0.01860	0.05135	1.26300	1.26300	0.01349	2.50740	2.50740	-0.01476				

Constraints(ns) for RESET_B rising:

	Timing Ref		Constraint(ns)											
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last			
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	-0.01467	1.26300	1.26300	-0.10794	2.50740	2.50740	-0.15053			
	removal	GATE (F)	0.01860	0.01860	0.02934	1.26300	1.26300	0.12682	2.50740	2.50740	0.16824			

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	0.17914	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Constraints(ns) for GATE rising:

		Ref		Constraint(ns)								
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
sg13g2_dlhrq_1	min_pulse_width	GATE ()	0.01860	0.00000	0.07980	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	0.00030	0.32940	0.06480	0.00061	2.50740	0.30000	0.00056
sg13g2_dlhrq_1	GATE	0.01860	0.00100	0.00925	0.32940	0.06480	0.00957	2.50740	0.30000	0.00941

Internal switching power(pJ) to Q falling:

Cell Name	Immut		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	-0.00030	0.32940	0.06480	-0.00061	2.50740	0.30000	-0.00056	
sg13g2_dlhrq_1	GATE	0.01860	0.00100	0.00918	0.32940	0.06480	0.01000	2.50740	0.30000	0.00981	
	RESET_B	0.01860	0.00100	0.00752	0.32940	0.06480	0.00804	2.50740	0.30000	0.01481	

Passive power(pJ) for D rising:

Cell Name	Power(pJ)							
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dlhrq_1	0.01860	0.01797	0.32940	0.01799	2.50740	0.02353		

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	0.02181	0.32940	0.02480	2.50740	0.03066			

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

Cell Name	Whom		Power(pJ)							
Cen Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	0.00349	0.32940	0.00355	2.50740	0.00915			
	!RESET_B	0.01860	0.01797	0.32940	0.01799	2.50740	0.02353			

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

C-II N	Whon		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	0.00387	0.32940	0.00409	2.50740	0.00982			
sg1.5g2_umiq_1	!RESET_B	0.01860	0.02181	0.32940	0.02480	2.50740	0.03066			

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	-0.00001	0.32940	0.00000	2.50740	0.00000		

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	0.00005	0.32940	0.00000	2.50740	0.00000			

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

Call Name	Whon		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
	(D * !GATE * !Q)	0.01860	0.00011	0.32940	0.00011	2.50740	0.00010			
sg13g2_dlhrq_1	(!D * !GATE * !Q)	0.01860	-0.00001	0.32940	0.00000	2.50740	0.00000			

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 Jll 1	(D * !GATE * !Q)	0.01860	0.00018	0.32940	0.00007	2.50740	0.00003			
sg13g2_dlhrq_1	(!D * !GATE * !Q)	0.01860	0.00005	0.32940	0.00000	2.50740	0.00000			

Passive power(pJ) for GATE rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	0.01860	0.01199	0.32940	0.01178	2.50740	0.01914			

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	0.01503	0.32940	0.01549	2.50740	0.02278				

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

Call Name	Whom		Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
221222 dllana 1	(D * !RESET_B * !Q)	0.01860	0.01199	0.32940	0.01178	2.50740	0.01914				
sg13g2_dlhrq_1	(!D * !RESET_B * !Q)	0.01860	0.00873	0.32940	0.00873	2.50740	0.01561				

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

Call Name	W/h or	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	0.01212	0.32940	0.01212	2.50740	0.01981			
	(!D * RESET_B * !Q)	0.01860	0.01503	0.32940	0.01549	2.50740	0.02278			
	(!D * !RESET_B * !Q)	0.01860	0.01514	0.32940	0.01559	2.50740	0.02285			

DLHR



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name		Pin Cap(pf)	Max Cap(pf)			
	D	RESET_B	GATE	Q	Q_N	
sg13g2_dlhr_1	0.00208	0.00311	0.00224	0.30000	0.30000	

Leakage Information

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_dlhr_1	461.80400	508.57600	562.27400				

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		
12.2 W 1	D->Q (RR)	0.01860	0.00100	0.20228	0.32940	0.06480	0.48207	2.50740	0.30000	1.31919		
sg13g2_dlhr_1	GATE->Q (RR)	0.01860	0.00100	0.18428	0.32940	0.06480	0.46834	2.50740	0.30000	1.29786		

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_dlhr_1	D->Q (FF)	0.01860	0.00100	0.17116	0.32940	0.06480	0.40867	2.50740	0.30000	1.08334	
	GATE->Q (RF)	0.01860	0.00100	0.17784	0.32940	0.06480	0.42235	2.50740	0.30000	1.09929	
	RESET_B->Q (FF)	0.01860	0.00100	0.07131	0.32940	0.06480	0.33937	2.50740	0.30000	1.11856	

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	0.20944	0.32940	0.06480	0.46816	2.50740	0.30000	1.27473	
	GATE->Q_N (RR)	0.01860	0.00100	0.21631	0.32940	0.06480	0.48188	2.50740	0.30000	1.29100	
	RESET_B->Q_N (FR)	0.01860	0.00100	0.10937	0.32940	0.06480	0.39326	2.50740	0.30000	1.25488	

Delay(ns) to Q_N 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_dlhr_1	D->Q_N (RF)	0.01860	0.00100	0.24631	0.32940	0.06480	0.47386	2.50740	0.30000	1.17836		
	GATE->Q_N (RF)	0.01860	0.00100	0.22808	0.32940	0.06480	0.46020	2.50740	0.30000	1.15690		

Constraint Information

Constraints(ns) for D rising:

Cell Name Timing Check	Timing Dof		Constraint(ns)									
	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	
42.2 19.4	hold	GATE (F)	0.01860	0.01860	-0.09292	1.26300	1.26300	-0.20777	2.50740	2.50740	-0.25088	
sg13g2_dlhr_1	setup	GATE (F)	0.01860	0.01860	0.10759	1.26300	1.26300	0.24285	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
12.2 111. 1	hold	GATE (F)	0.01860	0.01860	-0.04401	1.26300	1.26300	-0.00540	2.50740	2.50740	0.02656
sg13g2_dlhr_1	setup	GATE (F)	0.01860	0.01860	0.05379	1.26300	1.26300	0.01349	2.50740	2.50740	-0.01476

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
42.6 W. 4	recovery	GATE (F)	0.01860	0.01860	-0.00734	1.26300	1.26300	-0.06206	2.50740	2.50740	-0.08264
sg13g2_dlhr_1	removal	GATE (F)	0.01860	0.01860	0.02201	1.26300	1.26300	0.08635	2.50740	2.50740	0.10921

Constraints(ns) for RESET_B falling:

C H V		Ref Pin(trans)				Co	nstraint(n	ıs)			
Cell Name	Cell Name Timing Check		Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	RESET_B	0.01860	0.00000	0.18555	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

Constraints(ns) for GATE rising:

		Ref		Constraint(ns)									
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dlhr_1	min_pulse_width	GATE ()	0.01860	0.00000	0.08942	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Power Information

Internal switching power(pJ) to Q rising:

Cell Name 1	T4	Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
ca12a2 dlbn 1	D	0.01860	0.00100	0.00420	0.32940	0.06480	0.00464	2.50740	0.30000	0.00468
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.00857	0.32940	0.06480	0.00898	2.50740	0.30000	0.00900

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	0.00199	0.32940	0.06480	0.00079	2.50740	0.30000	0.00062
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.00858	0.32940	0.06480	0.00906	2.50740	0.30000	0.00893
	RESET_B	0.01860	0.00100	0.00760	0.32940	0.06480	0.00786	2.50740	0.30000	0.01145

Internal switching power(pJ) to Q_N rising:

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	0.00201	0.32940	0.06480	0.00098	2.50740	0.30000	0.00084
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.01441	0.32940	0.06480	0.01498	2.50740	0.30000	0.01855
	RESET_B	0.01860	0.00100	0.00759	0.32940	0.06480	0.00800	2.50740	0.30000	0.01163

Internal switching power(pJ) to Q_N falling:

Call Name	T4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12-2 III 1	D	0.01860	0.00100	0.00419	0.32940	0.06480	0.00451	2.50740	0.30000	0.00453			
sg13g2_dlhr_1	GATE	0.01860	0.00100	0.00857	0.32940	0.06480	0.00883	2.50740	0.30000	0.00878			

Passive power(pJ) for D rising:

Call Name		Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dlhr_1	0.01860	0.01759	0.32940	0.01762	2.50740	0.02317					

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	0.02150	0.32940	0.02457	2.50740	0.03045

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

Call 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	0.00356	0.32940	0.00363	2.50740	0.00927				
	!RESET_B	0.01860	0.01759	0.32940	0.01762	2.50740	0.02317				

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	0.00386	0.32940	0.00408	2.50740	0.00987
	!RESET_B	0.01860	0.02150	0.32940	0.02457	2.50740	0.03045

Passive power(pJ) for RESET_B rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	v(ns) First Slew(ns) Mid Slew(ns) Last					
sg13g2_dlhr_1	0.01860	-0.00013	0.32940	-0.00005	2.50740	-0.00001	

Passive power(pJ) for RESET_B falling:

Call Name	Power(pJ)						
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) Last						
sg13g2_dlhr_1	0.01860	0.00015	0.32940	0.00005	2.50740	0.00001	

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

Call Name	When		Power(pJ)				
Cell Name	when	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
201202 dlby 1	(D * !GATE * !Q)	0.01860	-0.00001	0.32940	-0.00001	2.50740	-0.00002
sg13g2_dlhr_1	(!D * !GATE * !Q)	0.01860	-0.00013	0.32940	-0.00005	2.50740	-0.00001

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

Call Name	Cell Name When		Power(pJ)					
Cell Name			First	Slew(ns)	Mid	Slew(ns)	Last	
12-2 JUL 1	(D * !GATE * !Q)	0.01860	0.00027	0.32940	0.00017	2.50740	0.00014	
sg13g2_dlhr_1	(!D * !GATE * !Q)	0.01860	0.00015	0.32940	0.00005	2.50740	0.00001	

Passive power(pJ) for GATE rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) Last						
sg13g2_dlhr_1	0.01860	0.01167	0.32940	0.01147	2.50740	0.01885	

Passive power(pJ) for GATE falling:

Call Name	Power(pJ)					
Cell Name	Slew(ns)	(ns) First Slew(ns) Mid Slew(ns)				
sg13g2_dlhr_1	0.01860	0.01494	0.32940	0.01537	2.50740	0.02262

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

Call Name	Cell Name When		Power(pJ)						
Cell Name			First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	0.01167	0.32940	0.01147	2.50740	0.01885		
	(!D * !RESET_B * !Q)	0.01860	0.00842	0.32940	0.00841	2.50740	0.01532		

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

Call Name	When		Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(D * !RESET_B * !Q)	0.01860	0.01238	0.32940	0.01240	2.50740	0.02012		
sg13g2_dlhr_1	(!D * RESET_B * !Q)	0.01860	0.01494	0.32940	0.01537	2.50740	0.02262		
	(!D * !RESET_B * !Q)	0.01860	0.01498	0.32940	0.01540	2.50740	0.02263		





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Call Name		Max Cap(pf)		
Cell Name	D	Q		
sg13g2_dllrq_1	0.00204	0.00298	0.00217	0.30000

Leakage Information

Call Name	Leakage(pW)				
Cell Name	Min.	Avg	Max.		
sg13g2_dllrq_1	350.11100	397.16800	438.99800		

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	0.18607	0.32940	0.06480	0.45795	2.50740	0.30000	1.29545
sg13g2_dllrq_1	GATE_N->Q (FR)	0.01860	0.00100	0.20855	0.32940	0.06480	0.49098	2.50740	0.30000	1.34731
	RESET_B->Q (RR)	0.01860	0.00100	0.08623	0.32940	0.06480	0.36088	2.50740	0.30000	1.24905

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	0.16410	0.32940	0.06480	0.39632	2.50740	0.30000	1.07202		
sg13g2_dllrq_1	GATE_N->Q (FF)	0.01860	0.00100	0.15751	0.32940	0.06480	0.40862	2.50740	0.30000	1.16407		
	RESET_B->Q (FF)	0.01860	0.00100	0.06591	0.32940	0.06480	0.32017	2.50740	0.30000	1.07220		

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			
221222 dilua 1	hold	GATE_N (R)	0.01860	0.01860	-0.06602	1.26300	1.26300	-0.08365	2.50740	2.50740	-0.10626			
sg13g2_dllrq_1	setup	GATE_N (R)	0.01860	0.01860	0.08069	1.26300	1.26300	0.09444	2.50740	2.50740	0.12101			

Constraints(ns) for D falling:

	Timin a	Γiming 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 dilua 1	hold	GATE_N (R)	0.01860	0.01860	-0.08314	1.26300	1.26300	-0.21857	2.50740	2.50740	-0.27449			
sg13g2_dllrq_1	setup	GATE_N (R)	0.01860	0.01860	0.09292	1.26300	1.26300	0.24825	2.50740	2.50740	0.32467			

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	-0.03423	1.26300	1.26300	-0.10254	2.50740	2.50740	-0.10921
sg13g2_dllrq_1	removal	GATE_N (R)	0.01860	0.01860	0.04890	1.26300	1.26300	0.11333	2.50740	2.50740	0.11806

Constraints(ns) for RESET_B falling:

	Call Name Timing Cheek	Dof		Constraint(ns)									
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dllrq_1	min_pulse_width	RESET_B	0.01860	0.00000	0.17914	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

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

		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_dllrq_	_1 min_pulse_width	GATE_N ()	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:

CHN	T 4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	D	0.01860	0.00100	0.00632	0.32940	0.06480	0.00672	2.50740	0.30000	0.00658			
sg13g2_dllrq_1	GATE_N	0.01860	0.00100	0.00673	0.32940	0.06480	0.00680	2.50740	0.30000	0.00653			
	RESET_B	0.01860	0.00100	0.00989	0.32940	0.06480	0.00984	2.50740	0.30000	0.01511			

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	0.00357	0.32940	0.06480	0.00027	2.50740	0.30000	0.00011
sg13g2_dllrq_1	GATE_N	0.01860	0.00100	0.00550	0.32940	0.06480	0.00544	2.50740	0.30000	0.00548
	RESET_B	0.01860	0.00100	0.00764	0.32940	0.06480	0.00820	2.50740	0.30000	0.01498

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	0.01184	0.32940	0.01178	2.50740	0.01744						

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	0.01425	0.32940	0.01802	2.50740	0.02389					

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	0.00342	0.32940	0.00349	2.50740	0.00910				
_	!RESET_B	0.01860	0.01184	0.32940	0.01178	2.50740	0.01744				

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

Cell Name	XX 71	Power(pJ)						
	When	Slew(ns) First Slew(ns) Mid Slew(Last	
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	0.00384	0.32940	0.00405	2.50740	0.00983	
	!RESET_B	0.01860	0.01425	0.32940	0.01802	2.50740	0.02389	

Passive power(pJ) for RESET_B rising:

Call Name		Power(pJ)					
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) L						
sg13g2_dllrq_1	0.01860	0.00008	0.32940	0.00008	2.50740	0.00007	

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	0.00006	0.32940	-0.00004	2.50740	-0.00007	

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

Call Name	W/h or	Power(pJ)					
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	0.00020	0.32940	0.00020	2.50740	0.00020
	(!D * GATE_N * !Q)	0.01860	0.00008	0.32940	0.00008	2.50740	0.00007

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

Cell Name Wh	Whon	Power(pJ)					
	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	0.00019	0.32940	0.00008	2.50740	0.00005
	(!D * GATE_N * !Q)	0.01860	0.00006	0.32940	-0.00004	2.50740	-0.00007

Passive power(pJ) for GATE_N rising:

Call Name		Power(pJ)					
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns) Las						
sg13g2_dllrq_1	0.01860	0.01342	0.32940	0.01330	2.50740	0.01994	

Passive power(pJ) for GATE_N falling:

Call Name	Power(pJ)						
Cell Name	Slew(ns) First Slew(ns) Mid Slew(ns)						
sg13g2_dllrq_1	0.01860	0.01510	0.32940	0.01552	2.50740	0.02300	

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

Cell Name	Whon	Power(pJ)						
	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	0.01342	0.32940	0.01330	2.50740	0.01994	
	(!D * !RESET_B * !Q)	0.01860	0.00790	0.32940	0.00788	2.50740	0.01478	

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

Cell Name	When S	Power(pJ)						
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	0.01267	0.32940	0.01273	2.50740	0.01988	
	(!D * RESET_B * !Q)	0.01860	0.01510	0.32940	0.01552	2.50740	0.02300	
	(!D * !RESET_B * !Q)	0.01860	0.01516	0.32940	0.01558	2.50740	0.02292	

DLLR



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

	INPU	OUTPUT		
D	RESET_B	RESET_B GATE_N		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)	n Cap(pf) Max Cap(pf)				
Cell Name	D	RESET_B	GATE_N	Q	Q_N		
sg13g2_dllr_1	0.00215	0.00307	0.00230	0.30000	0.30000		

Leakage Information

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_dllr_1	461.77200	518.32600	562.18200					

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_dllr_1	D->Q (RR)	0.01860	0.00100	0.20391	0.32940	0.06480	0.48308	2.50740	0.30000	1.31946			
	GATE_N->Q (FR)	0.01860	0.00100	0.22633	0.32940	0.06480	0.51690	2.50740	0.30000	1.37343			

Delay(ns) to Q falling:

Cell Name	Timing		Delay(ns)									
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	0.17305	0.32940	0.06480	0.41005	2.50740	0.30000	1.08415		
	GATE_N->Q (FF)	0.01860	0.00100	0.16743	0.32940	0.06480	0.42465	2.50740	0.30000	1.18287		
	RESET_B->Q (FF)	0.01860	0.00100	0.07126	0.32940	0.06480	0.34475	2.50740	0.30000	1.11003		

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_dllr_1	D->Q_N (FR)	0.01860	0.00100	0.21116	0.32940	0.06480	0.46935	2.50740	0.30000	1.27482	
	GATE_N->Q_N (FR)	0.01860	0.00100	0.20565	0.32940	0.06480	0.48399	2.50740	0.30000	1.37231	
	RESET_B->Q_N (FR)	0.01860	0.00100	0.11011	0.32940	0.06480	0.39480	2.50740	0.30000	1.26301	

Delay(ns) to Q_N falling:

Cell Name	Timing		Delay(ns)									
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	0.24765	0.32940	0.06480	0.47513	2.50740	0.30000	1.17886		
	GATE_N->Q_N (FF)	0.01860	0.00100	0.26977	0.32940	0.06480	0.50894	2.50740	0.30000	1.23357		

Constraint Information

Constraints(ns) for D rising:

	Timina	Timing Ref		Constraint(ns)										
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last			
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	-0.07580	1.26300	1.26300	-0.08905	2.50740	2.50740	-0.11216			
	setup	GATE_N (R)	0.01860	0.01860	0.09292	1.26300	1.26300	0.09984	2.50740	2.50740	0.12692			

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	-0.08558	1.26300	1.26300	-0.22127	2.50740	2.50740	-0.27744		
	setup	GATE_N (R)	0.01860	0.01860	0.09781	1.26300	1.26300	0.25365	2.50740	2.50740	0.32762		

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	-0.02690	1.26300	1.26300	-0.06476	2.50740	2.50740	-0.04722		
	removal	GATE_N (R)	0.01860	0.01860	0.04157	1.26300	1.26300	0.07825	2.50740	2.50740	0.06198		

Constraints(ns) for RESET_B falling:

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

Constraints(ns) for GATE_N falling:

		Pin(trans)		Constraint(ns)									
Cell Name	Timing Check		Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_dllr_1	min_pulse_width	GATE_N	0.01860	0.00000	0.11826	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Internal switching power(pJ) to Q rising:

Cell Name	T4		Power(pJ)								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	0.00895	0.32940	0.06480	0.05571	2.50740	0.30000	0.22499						
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.01786	0.32940	0.06480	0.06476	2.50740	0.30000	0.23412						

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
	D	0.01860	0.00100	0.00635	0.32940	0.06480	0.04590	2.50740	0.30000	0.21483
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.01624	0.32940	0.06480	0.06261	2.50740	0.30000	0.23194
	RESET_B	0.01860	0.00100	0.02368	0.32940	0.06480	0.06964	2.50740	0.30000	0.24478

Internal switching power(pJ) to Q_N rising:

Call Name	T4	Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	D	0.01860	0.00100	0.00638	0.32940	0.06480	0.04632	2.50740	0.30000	0.21523
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.02911	0.32940	0.06480	0.07598	2.50740	0.30000	0.25260
	RESET_B	0.01860	0.00100	0.02353	0.32940	0.06480	0.06978	2.50740	0.30000	0.24503

Internal switching power(pJ) to Q_N falling:

Cell Name	T4					Power(pJ)				
Cen Name	Name Input		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
aa12a2 Jlla 1	D	0.01860	0.00100	0.00893	0.32940	0.06480	0.05539	2.50740	0.30000	0.22480
sg13g2_dllr_1	GATE_N	0.01860	0.00100	0.01785	0.32940	0.06480	0.06448	2.50740	0.30000	0.23338

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	0.01820	0.32940	0.01830	2.50740	0.02385		

Passive power(pJ) for D falling:

Cell Name	Power(pJ)								
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dllr_1	0.01860	0.01975	0.32940	0.02677	2.50740	0.03267			

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

Cell Name	X 77	Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	0.00362	0.32940	0.00369	2.50740	0.00933		
	!RESET_B	0.01860	0.01820	0.32940	0.01830	2.50740	0.02385		

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

Cell Name	W/h ore		Power(pJ)							
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	0.00338	0.32940	0.00360	2.50740	0.00950			
	!RESET_B	0.01860	0.01975	0.32940	0.02677	2.50740	0.03267			

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	-0.00016	0.32940	-0.00008	2.50740	-0.00004		

Passive power(pJ) for RESET_B falling:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_dllr_1	0.01860	0.00018	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			
aa12a2 Jilla 1	(D * GATE_N * !Q)	0.01860	0.00027	0.32940	0.00026	2.50740	0.00026			
sg13g2_dllr_1	(!D * GATE_N * !Q)	0.01860	-0.00016	0.32940	-0.00008	2.50740	-0.00004			

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	0.00030	0.32940	0.00020	2.50740	0.00017		
sg13g2_dllr_1	(!D * GATE_N * !Q)	0.01860	0.00018	0.32940	0.00008	2.50740	0.00004		

Passive power(pJ) for GATE_N rising:

Call Name		Power(pJ)									
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_dllr_1	0.01860	0.01385	0.32940	0.01567	2.50740	0.02261					

Passive power(pJ) for GATE_N falling:

Call Name		Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dllr_1	0.01860	0.01287	0.32940	0.01295	2.50740	0.02020			

Passive power(pJ) for GATE_N 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	0.01348	0.32940	0.01338	2.50740	0.02002			
sg13g2_dllr_1	(!D * RESET_B * !Q)	0.01860	0.01385	0.32940	0.01567	2.50740	0.02261			
	(!D * !RESET_B * !Q)	0.01860	0.01390	0.32940	0.01572	2.50740	0.02264			

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

Call Name	W/h oza	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	0.01287	0.32940	0.01295	2.50740	0.02020			
	(!D * !RESET_B * !Q)	0.01860	0.00858	0.32940	0.00869	2.50740	0.01604			

DLY1



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	14.51520

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)		
Cell Name	A	X		
sg13g2_dlygate4sd1_1	0.00149	0.30000		

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_dlygate4sd1_1	176.82000	186.79900	196.77800			

Delay Information Delay(ns) to X rising:

L GII Nama	Timing		Delay(ns)								
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dlygate4sd1_1	A->X (RR)	0.01860	0.00100	0.11507	0.32940	0.06480	0.38342	2.50740	0.30000	1.17921	

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_dlygate4sd1_1	A->X (FF)	0.01860	0.00100	0.13504	0.32940	0.06480	0.39134	2.50740	0.30000	1.17984

Internal switching power(pJ) to X rising:

Cell Name	Input -	Power(pJ)								
Cen Name		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	A	0.01860	0.00100	0.01256	0.32940	0.06480	0.01269	2.50740	0.30000	0.01597

Internal switching power(pJ) to X falling:

Cell Name	Innut		Power(pJ)								
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dlygate4sd1_1	A	0.01860	0.00100	0.01199	0.32940	0.06480	0.01227	2.50740	0.30000	0.01572	

DLY2



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	14.51520

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_dlygate4sd2_1	0.00148	0.30000

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_dlygate4sd2_1	178.59500	188.57200	198.55000			

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_dlygate4sd2_1	A->X (RR)	0.01860	0.00100	0.16703	0.32940	0.06480	0.44640	2.50740	0.30000	1.28743

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_dlygate4sd2_1	A->X (FF)	0.01860	0.00100	0.18947	0.32940	0.06480	0.46680	2.50740	0.30000	1.29914

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	0.01481	0.32940	0.06480	0.01489	2.50740	0.30000	0.01785

Internal switching power(pJ) to X falling:

Call Name	Innut	Power(pJ)								
Cell Name In	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	A	0.01860	0.00100	0.01431	0.32940	0.06480	0.01453	2.50740	0.30000	0.01778

DLY4



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	X
sg13g2_dlygate4sd3_1	0.00150	0.30000

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_dlygate4sd3_1	389.89700	399.85800	409.81900			

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	0.34505	0.32940	0.06480	0.65679	2.50740	0.30000	1.59155			

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	0.35893	0.32940	0.06480	0.67703	2.50740	0.30000	1.61288		

Internal switching power(pJ) to X rising:

Call Name	Immut		Power(pJ)								
Cell Name II	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_dlygate4sd3_1	A	0.01860	0.00100	0.02105	0.32940	0.06480	0.02100	2.50740	0.30000	0.02356	

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_dlygate4sd3_1	A	0.01860	0.00100	0.02069	0.32940	0.06480	0.02072	2.50740	0.30000	0.02346		





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

II	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	0.00796	0.00906	1.20000
sg13g2_einvn_2	0.00408	0.00486	0.60000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_einvn_4	399.52500	477.26800	555.01000					
sg13g2_einvn_2	201.55400	240.42400	279.29300					

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	0.01002	0.02568	0.32940	0.26822	0.54810	2.50740	1.20902	2.90223
sg13g2_einvn_4	TE_B->Z (RR)	0.01860	0.01002	0.05136	0.32940	0.26822	0.13048	2.50740	1.20902	0.28618
	TE_B->Z (FR)	0.01860	0.01002	0.03222	0.32940	0.26822	0.52534	2.50740	1.20902	2.67768
	A->Z (FR)	0.01860	0.00556	0.02760	0.32940	0.13416	0.54769	2.50740	0.60456	2.89972
sg13g2_einvn_2	TE_B->Z (RR)	0.01860	0.00556	0.05031	0.32940	0.13416	0.12670	2.50740	0.60456	0.27910
	TE_B->Z (FR)	0.01860	0.00556	0.03353	0.32940	0.13416	0.52518	2.50740	0.60456	2.67774

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	0.01553	0.02253	0.32940	0.27373	0.45665	2.50740	1.21453	2.48490			
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00843	0.02412	0.32940	0.13703	0.45682	2.50740	0.60743	2.48482			

Internal switching power(pJ) to Z rising:

Call Name	T4									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-2 4	A	0.01860	0.01002	0.00522	0.32940	0.26822	0.00666	2.50740	1.20902	0.01002
sg13g2_einvn_4	TE_B	0.01860	0.01002	0.01561	0.32940	0.26822	0.01476	2.50740	1.20902	0.01342
12-2 2	A	0.01860	0.00556	0.00265	0.32940	0.13416	0.00329	2.50740	0.60456	0.00492
sg13g2_einvn_2	TE_B	0.01860	0.00556	0.00770	0.32940	0.13416	0.00730	2.50740	0.60456	0.00663

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	0.01553	0.00493	0.32940	0.27373	0.00670	2.50740	1.21453	0.00944		
sg13g2_einvn_2	A	0.01860	0.00843	0.00263	0.32940	0.13703	0.00340	2.50740	0.60743	0.00459		

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	-0.00430	0.32940	-0.00472	2.50740	0.00252			
sg13g2_einvn_2	0.01860	-0.00183	0.32940	-0.00206	2.50740	0.00175			

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	0.01410	0.32940	0.01462	2.50740	0.02298			
sg13g2_einvn_2	0.01860	0.00711	0.32940	0.00737	2.50740	0.01169			





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_2	3.62880
sg13g2_fill_8	14.51520
sg13g2_fill_4	7.25760

Pin Capacitance Information Leakage Information

Cell Name	Leakage(pW)						
Cen Name	Min.	Avg	Max.				
sg13g2_fill_1	0.00000	0.00000	0.00000				
sg13g2_fill_2	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_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00230	0.00494	0.30000		

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_lgcp_1	376.58400	389.66800	412.84000			

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	0.07506	0.32940	0.06480	0.34539	2.50740	0.30000	1.20926

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	0.06102	0.32940	0.06480	0.30849	2.50740	0.30000	1.04286

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	
aa12a2 laan 1	hold	CLK (R)	0.01860	0.01860	-0.03683	1.26300	1.26300	-0.15850	2.50740	2.50740	-0.23763	
sg13g2_lgcp_1	setup	CLK (R)	0.01860	0.01860	0.07452	1.26300	1.26300	0.23146	2.50740	2.50740	0.32659	

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 Januar 1	hold	CLK (R)	0.01860	0.01860	-0.01972	1.26300	1.26300	-0.01097	2.50740	2.50740	-0.00301		
sg13g2_lgcp_1	setup	CLK (R)	0.01860	0.01860	0.05489	1.26300	1.26300	0.05603	2.50740	2.50740	0.06228		

Constraints(ns) for CLK rising:

	ame 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	0.23041	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		

Constraints(ns) for CLK falling:

Cell Name T		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	0.10223	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 Inpu	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_lgcp_1	CLK	0.01860	0.00100	0.00867	0.32940	0.06480	0.00865	2.50740	0.30000	0.01315		

Internal switching power(pJ) to GCLK falling:

Call Name	Innut		Power(pJ)									
Cell Name Input	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_lgcp_1	CLK	0.01860	0.00100	0.00517	0.32940	0.06480	0.00571	2.50740	0.30000	0.01126		

Passive power(pJ) for GATE rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_lgcp_1	0.01860	0.01924	0.32940	0.02002	2.50740	0.02482				

Passive power(pJ) for GATE falling:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_lgcp_1	0.01860	0.01315	0.32940	0.02863	2.50740	0.03406				

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	0.01924	0.32940	0.02002	2.50740	0.02482			

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	0.01315	0.32940	0.02863	2.50740	0.03406				

Passive power(pJ) for CLK rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_lgcp_1	0.01860	0.00730	0.32940	0.00730	2.50740	0.01420					

Passive power(pJ) for CLK falling :

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_lgcp_1	0.01860	0.00878	0.32940	0.00880	2.50740	0.01599					





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Call Name	Pin Cap(pf)	Max Cap(pf)
Cell Name	A	Y
sg13g2_inv_16	0.04354	4.80000
sg13g2_inv_8	0.02245	2.40000
sg13g2_inv_4	0.01122	1.20000
sg13g2_inv_1	0.00287	0.30000
sg13g2_inv_2	0.00567	0.60000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_inv_16	696.59900	1007.55000	1318.51000				
sg13g2_inv_8	348.29800	503.80300	659.30800				
sg13g2_inv_4	174.15000	251.89000	329.63000				
sg13g2_inv_1	43.53740	63.00320	82.46900				
sg13g2_inv_2	87.08110	125.95600	164.83000				

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_inv_16	A->Y (FR)	0.01860	0.00100	0.01901	0.32940	1.03680	0.36723	2.50740	4.80000	2.06424
sg13g2_inv_8	A->Y (FR)	0.01860	0.00100	0.01633	0.32940	0.51840	0.36333	2.50740	2.40000	2.05753
sg13g2_inv_4	A->Y (FR)	0.01860	0.00100	0.01671	0.32940	0.25920	0.36302	2.50740	1.20000	2.05668
sg13g2_inv_1	A->Y (FR)	0.01860	0.00100	0.02056	0.32940	0.06480	0.36330	2.50740	0.30000	2.05537
sg13g2_inv_2	A->Y (FR)	0.01860	0.00100	0.01788	0.32940	0.12960	0.36253	2.50740	0.60000	2.05379

Delay(ns) to Y falling:

Coll Name	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	0.01891	0.32940	1.03680	0.34155	2.50740	4.80000	1.93422
sg13g2_inv_8	A->Y (RF)	0.01860	0.00100	0.01594	0.32940	0.51840	0.33825	2.50740	2.40000	1.93235
sg13g2_inv_4	A->Y (RF)	0.01860	0.00100	0.01626	0.32940	0.25920	0.33803	2.50740	1.20000	1.93155
sg13g2_inv_1	A->Y (RF)	0.01860	0.00100	0.01988	0.32940	0.06480	0.33725	2.50740	0.30000	1.92415
sg13g2_inv_2	A->Y (RF)	0.01860	0.00100	0.01730	0.32940	0.12960	0.33647	2.50740	0.60000	1.92428

Internal switching power(pJ) to Y rising:

Call Name	Power(pJ)									
Cell Name Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_inv_16	A	0.01860	0.00100	0.02041	0.32940	1.03680	0.02497	2.50740	4.80000	0.04673
sg13g2_inv_8	A	0.01860	0.00100	0.01026	0.32940	0.51840	0.01244	2.50740	2.40000	0.02144
sg13g2_inv_4	A	0.01860	0.00100	0.00518	0.32940	0.25920	0.00622	2.50740	1.20000	0.01108
sg13g2_inv_1	A	0.01860	0.00100	0.00152	0.32940	0.06480	0.00169	2.50740	0.30000	0.00298
sg13g2_inv_2	A	0.01860	0.00100	0.00263	0.32940	0.12960	0.00310	2.50740	0.60000	0.00573

Internal switching power(pJ) to Y falling:

CHN	T .		Power(pJ)							
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_16	A	0.01860	0.00100	0.01767	0.32940	1.03680	0.02408	2.50740	4.80000	0.04420
sg13g2_inv_8	A	0.01860	0.00100	0.00888	0.32940	0.51840	0.01177	2.50740	2.40000	0.02158
sg13g2_inv_4	A	0.01860	0.00100	0.00450	0.32940	0.25920	0.00576	2.50740	1.20000	0.01099
sg13g2_inv_1	A	0.01860	0.00100	0.00155	0.32940	0.06480	0.00172	2.50740	0.30000	0.00299
sg13g2_inv_2	A	0.01860	0.00100	0.00238	0.32940	0.12960	0.00297	2.50740	0.60000	0.00552





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.01575	0.01555	2.40000

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_einvn_8	755.51500	910.99700	1066.48000			

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	0.01899	0.02480	0.32940	0.53639	0.54972	2.50740	2.41799	2.90950		
sg13g2_einvn_8	TE_B->Z (RR)	0.01860	0.01899	0.06441	0.32940	0.53639	0.16950	2.50740	2.41799	0.39661		
	TE_B->Z (FR)	0.01860	0.01899	0.03303	0.32940	0.53639	0.52794	2.50740	2.41799	2.68372		

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	0.02992	0.02178	0.32940	0.54732	0.45829	2.50740	2.42892	2.49406

Internal switching power(pJ) to Z rising:

C.II N		Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
221222 sinom 0	A	0.01860	0.01899	0.01031	0.32940	0.53639	0.01339	2.50740	2.41799	0.02020
sg13g2_einvn_8	TE_B	0.01860	0.01899	0.03335	0.32940	0.53639	0.03070	2.50740	2.41799	0.02861

Internal switching power(pJ) to Z falling:

Cell Name	T4	Power(pJ)								
Cen Name	Input	Slew(ns) Load(pf) First Slew(ns) Load(pf) M						Slew(ns)	Load(pf)	Last
sg13g2_einvn_8	A	0.01860	0.02992	0.00955	0.32940	0.54732	0.01343	2.50740	2.42892	0.01852

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	-0.01088	0.32940	-0.01164	2.50740	-0.00557	

Passive power(pJ) for TE_B falling:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_einvn_8	0.01860	0.02424	0.32940	0.02562	2.50740	0.03343	

KEEPSTATE



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.01819	-		

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_sighold	138.90300	161.57100	184.23800			

Passive Power Information

Passive power(pJ) for SH rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	0.00526	0.32940	0.01088	2.50740	0.05193

Passive power(pJ) for SH falling:

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	0.00425	0.32940	0.00763	2.50740	0.05273

MUX2x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

IN	IPU'I		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	0.00277	0.00288	0.00504	0.60000
sg13g2_mux2_1	0.00278	0.00288	0.00505	0.30000

Call Name	Leakage(pW)				
Cell Name	Min.	Avg	Max.		
sg13g2_mux2_2	279.33300	309.29200	337.39300		
sg13g2_mux2_1	220.22500	246.33900	274.31600		

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	0.09001	0.32940	0.12960	0.39492	2.50740	0.60000	1.31798
sg13g2_mux2_2	A1->X (RR)	0.01860	0.00100	0.08434	0.32940	0.12960	0.39378	2.50740	0.60000	1.32538
	S->X (-R)	0.01860	0.00100	0.09272	0.32940	0.12960	0.39156	2.50740	0.60000	1.32478
	A0->X (RR)	0.01860	0.00100	0.07776	0.32940	0.06480	0.35909	2.50740	0.30000	1.23461
sg13g2_mux2_1	A1->X (RR)	0.01860	0.00100	0.07398	0.32940	0.06480	0.35885	2.50740	0.30000	1.24421
	S->X (-R)	0.01860	0.00100	0.08087	0.32940	0.06480	0.36070	2.50740	0.30000	1.24661

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	0.11734	0.32940	0.12960	0.41780	2.50740	0.60000	1.27385
sg13g2_mux2_2	A1->X (FF)	0.01860	0.00100	0.11710	0.32940	0.12960	0.41802	2.50740	0.60000	1.27616
	S->X (-F)	0.01860	0.00100	0.12936	0.32940	0.12960	0.40520	2.50740	0.60000	1.22613
	A0->X (FF)	0.01860	0.00100	0.09719	0.32940	0.06480	0.36971	2.50740	0.30000	1.17439
sg13g2_mux2_1	A1->X (FF)	0.01860	0.00100	0.09699	0.32940	0.06480	0.37003	2.50740	0.30000	1.17651
	S->X (-F)	0.01860	0.00100	0.10823	0.32940	0.06480	0.36077	2.50740	0.30000	1.13446

Delay(ns) to X rising (conditional):

Call Name	Timing	XX/1					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	S->X (RR)	(!A0 * A1)	0.01860	0.00100	0.09272	0.32940	0.12960	0.39156	2.50740	0.60000	1.32478
sg13g2_mux2_2	S->X (FR)	(A0 * !A1)	0.01860	0.00100	0.12759	0.32940	0.12960	0.40535	2.50740	0.60000	1.21884
12-22 1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	0.08087	0.32940	0.06480	0.36070	2.50740	0.30000	1.24661
sg13g2_mux2_1	S->X (FR)	(A0 * !A1)	0.01860	0.00100	0.11556	0.32940	0.06480	0.38381	2.50740	0.30000	1.19323

Delay(ns) to X falling (conditional):

Cell Name	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
ca12a2 muv2 2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	0.12936	0.32940	0.12960	0.40520	2.50740	0.60000	1.22613
sg13g2_mux2_2	S->X (RF)	(A0 * !A1)	0.01860	0.00100	0.15996	0.32940	0.12960	0.42102	2.50740	0.60000	1.13843
221222	S->X (FF)	(!A0 * A1)	0.01860	0.00100	0.10823	0.32940	0.06480	0.36077	2.50740	0.30000	1.13446
sg13g2_mux2_1	S->X (RF)	(A0 * !A1)	0.01860	0.00100	0.13861	0.32940	0.06480	0.38437	2.50740	0.30000	1.09990

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	0.01268	0.32940	0.12960	0.01290	2.50740	0.60000	0.01892
sg13g2_mux2_2	A1	0.01860	0.00100	0.01273	0.32940	0.12960	0.01302	2.50740	0.60000	0.01900
	S	0.01860	0.00100	0.01283	0.32940	0.12960	0.01343	2.50740	0.60000	0.01797
	A0	0.01860	0.00100	0.00883	0.32940	0.06480	0.00891	2.50740	0.30000	0.01509
sg13g2_mux2_1	A1	0.01860	0.00100	0.00893	0.32940	0.06480	0.00901	2.50740	0.30000	0.01519
	S	0.01860	0.00100	0.00908	0.32940	0.06480	0.00929	2.50740	0.30000	0.01406

Internal switching power(pJ) to X falling:

Call Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A0	0.01860	0.00100	0.01253	0.32940	0.12960	0.01284	2.50740	0.60000	0.01939
sg13g2_mux2_2	A1	0.01860	0.00100	0.01249	0.32940	0.12960	0.01275	2.50740	0.60000	0.01910
	S	0.01860	0.00100	0.01238	0.32940	0.12960	0.01293	2.50740	0.60000	0.01778
	A0	0.01860	0.00100	0.00869	0.32940	0.06480	0.00906	2.50740	0.30000	0.01538
sg13g2_mux2_1	A1	0.01860	0.00100	0.00862	0.32940	0.06480	0.00896	2.50740	0.30000	0.01542
	S	0.01860	0.00100	0.00872	0.32940	0.06480	0.00904	2.50740	0.30000	0.01406

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

Cell Name	Immut		Power(pJ)									
Cell Name	Input		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sa12a2 muv2 2	S	(A0 * !A1)	0.01860	0.00100	0.01297	0.32940	0.12960	0.01372	2.50740	0.60000	0.01360	
sg13g2_mux2_2	s	(!A0 * A1)	0.01860	0.00100	0.01283	0.32940	0.12960	0.01343	2.50740	0.60000	0.01797	
12-22 1	S	(A0 * !A1)	0.01860	0.00100	0.00919	0.32940	0.06480	0.00944	2.50740	0.30000	0.00941	
sg13g2_mux2_1	S	(!A0 * A1)	0.01860	0.00100	0.00908	0.32940	0.06480	0.00929	2.50740	0.30000	0.01406	

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

Call Name	T4	When	Power(pJ)									
Cell Name	Input	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	0.01301	0.32940	0.12960	0.01373	2.50740	0.60000	0.01388	
sg13g2_mux2_2	S	(!A0 * A1)	0.01860	0.00100	0.01238	0.32940	0.12960	0.01293	2.50740	0.60000	0.01778	
12-22 1	S	(A0 * !A1)	0.01860	0.00100	0.00932	0.32940	0.06480	0.00978	2.50740	0.30000	0.00975	
sg13g2_mux2_1	S	(!A0 * A1)	0.01860	0.00100	0.00872	0.32940	0.06480	0.00904	2.50740	0.30000	0.01406	

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	0.00408	0.32940	0.00399	2.50740	0.00954					
sg13g2_mux2_1	0.01860	0.00408	0.32940	0.00399	2.50740	0.00955					

Passive power(pJ) for S falling:

Cell Name		Power(pJ)									
Cen Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_mux2_2	0.01860	0.00416	0.32940	0.00426	2.50740	0.00995					
sg13g2_mux2_1	0.01860	0.00416	0.32940	0.00426	2.50740	0.00995					

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

Cell Name	XX /1			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(A0 * A1)	0.01860	0.00408	0.32940	0.00399	2.50740	0.00954
sg13g2_mux2_2	(!A0 * !A1)	0.01860	0.00378	0.32940	0.00381	2.50740	0.00935
sg13g2_mux2_1	(A0 * A1)	0.01860	0.00408	0.32940	0.00399	2.50740	0.00955
	(!A0 * !A1)	0.01860	0.00378	0.32940	0.00382	2.50740	0.00935

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

Cell Name	¥¥71			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
12-22 2	(A0 * A1)	0.01860	0.00391	0.32940	0.00408	2.50740	0.00974
sg13g2_mux2_2	(!A0 * !A1)	0.01860	0.00416	0.32940	0.00426	2.50740	0.00995
12.2	(A0 * A1)	0.01860	0.00391	0.32940	0.00408	2.50740	0.00974
sg13g2_mux2_1	(!A0 * !A1)	0.01860	0.00416	0.32940	0.00426	2.50740	0.00995

MUX4



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

		INP	UT			OUTPUT
A0	A1	A2	A3	S0	S1	X
0	0	0	0	x	x	0
0	X	0	1	0	x	0
x	0	x	1	1	0	0
x	X	x	1	1	1	1
0	0	1	x	X	0	0
0	X	1	x	0	1	1
0	X	1	0	1	1	0
0	1	0	X	0	X	0
0	1	X	X	1	0	1
0	1	x	0	1	1	0
0	1	1	X	0	0	0
1	0	0	x	0	0	1
1	X	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	X	1	x	0	x	1
1	1	0	x	X	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
sg13g2_mux4_1	38.10240

Pin Capacitance Information

Cell Name		Pin Cap(pf)								
	A0	A1	A2	A3	S0	S1	X			
sg13g2_mux4_1	0.00278	0.00276	0.00278	0.00284	0.00825	0.00502	0.30000			

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_mux4_1	346.84400	464.97500	578.35800				

Delay Information Delay(ns) to X rising:

Call Massa	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A0->X (RR)	0.01860	0.00100	0.13749	0.32940	0.06480	0.44293	2.50740	0.30000	1.43168
	A1->X (RR)	0.01860	0.00100	0.13312	0.32940	0.06480	0.44143	2.50740	0.30000	1.43010
12.2	A2->X (RR)	0.01860	0.00100	0.14247	0.32940	0.06480	0.45257	2.50740	0.30000	1.45701
sg13g2_mux4_1	A3->X (RR)	0.01860	0.00100	0.13843	0.32940	0.06480	0.45058	2.50740	0.30000	1.45343
_	S0->X (-R)	0.01860	0.00100	0.12047	0.32940	0.06480	0.43598	2.50740	0.30000	1.41562
	S1->X (-R)	0.01860	0.00100	0.07128	0.32940	0.06480	0.35437	2.50740	0.30000	1.22338

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	0.16011	0.32940	0.06480	0.44049	2.50740	0.30000	1.25803
	A1->X (FF)	0.01860	0.00100	0.16178	0.32940	0.06480	0.44008	2.50740	0.30000	1.25928
	A2->X (FF)	0.01860	0.00100	0.16988	0.32940	0.06480	0.45431	2.50740	0.30000	1.28795
sg13g2_mux4_1	A3->X (FF)	0.01860	0.00100	0.17165	0.32940	0.06480	0.45347	2.50740	0.30000	1.28630
_	S0->X (-F)	0.01860	0.00100	0.14782	0.32940	0.06480	0.44059	2.50740	0.30000	1.28045
	S1->X (-F)	0.01860	0.00100	0.08710	0.32940	0.06480	0.34845	2.50740	0.30000	1.09407

Delay(ns) to X rising (conditional):

C.II N	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	0.12047	0.32940	0.06480	0.43598	2.50740	0.30000	1.41562
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	0.11358	0.32940	0.06480	0.42167	2.50740	0.30000	1.38160
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	0.17578	0.32940	0.06480	0.47372	2.50740	0.30000	1.34459
201202 mmv4 1	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	0.17041	0.32940	0.06480	0.46629	2.50740	0.30000	1.33335
sg13g2_mux4_1	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	0.07149	0.32940	0.06480	0.35436	2.50740	0.30000	1.22302
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	0.07128	0.32940	0.06480	0.35437	2.50740	0.30000	1.22338
_	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	0.09523	0.32940	0.06480	0.37238	2.50740	0.30000	1.16946
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	0.09493	0.32940	0.06480	0.37254	2.50740	0.30000	1.16931

Delay(ns) to X falling (conditional):

C II N	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	0.14782	0.32940	0.06480	0.44059	2.50740	0.30000	1.28045
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	0.13458	0.32940	0.06480	0.42082	2.50740	0.30000	1.23933
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	0.19484	0.32940	0.06480	0.47774	2.50740	0.30000	1.25271
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	0.18397	0.32940	0.06480	0.46353	2.50740	0.30000	1.23520
sg13g2_mux4_1	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	0.08724	0.32940	0.06480	0.34880	2.50740	0.30000	1.09371
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	0.08710	0.32940	0.06480	0.34845	2.50740	0.30000	1.09407
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	0.10733	0.32940	0.06480	0.37041	2.50740	0.30000	1.07779
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	0.10757	0.32940	0.06480	0.37048	2.50740	0.30000	1.07771

Internal switching power(pJ) to X rising:

Call Name	T4					Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A0	0.01860	0.00100	0.01773	0.32940	0.06480	0.01769	2.50740	0.30000	0.02139
	A1	0.01860	0.00100	0.01849	0.32940	0.06480	0.01840	2.50740	0.30000	0.02225
12.2	A2	0.01860	0.00100	0.01903	0.32940	0.06480	0.01900	2.50740	0.30000	0.02288
sg13g2_mux4_1	A3	0.01860	0.00100	0.01792	0.32940	0.06480	0.01786	2.50740	0.30000	0.02154
	S0	0.01860	0.00100	0.00130	0.32940	0.06480	-0.00060	2.50740	0.30000	0.01126
	S1	0.01860	0.00100	0.00744	0.32940	0.06480	0.00854	2.50740	0.30000	0.01250

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
	A0	0.01860	0.00100	0.01290	0.32940	0.06480	0.01303	2.50740	0.30000	0.01706
	A1	0.01860	0.00100	0.01316	0.32940	0.06480	0.01331	2.50740	0.30000	0.01737
12-24 1	A2	0.01860	0.00100	0.01814	0.32940	0.06480	0.01827	2.50740	0.30000	0.02237
sg13g2_mux4_1	A3	0.01860	0.00100	0.01389	0.32940	0.06480	0.01398	2.50740	0.30000	0.01813
_	S0	0.01860	0.00100	0.00797	0.32940	0.06480	0.00818	2.50740	0.30000	0.01379
	S1	0.01860	0.00100	0.00462	0.32940	0.06480	0.00506	2.50740	0.30000	0.01069

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

C-II N	T4	When					Power(pJ)				
Cell Name	Input	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	SO	(A2 * !A3 * S1)	0.01860	0.00100	0.01262	0.32940	0.06480	0.01114	2.50740	0.30000	0.00453
	SO	(A0 * !A1 * !S1)	0.01860	0.00100	0.01262	0.32940	0.06480	0.01119	2.50740	0.30000	0.00454
	S0	(!A2 * A3 * S1)	0.01860	0.00100	0.00130	0.32940	0.06480	-0.00060	2.50740	0.30000	0.01126
	SO	(!A0 * A1 * !S1)	0.01860	0.00100	0.00136	0.32940	0.06480	-0.00065	2.50740	0.30000	0.01083
sg13g2_mux4_1	S1	(A1 * !A3 * S0)	0.01860	0.00100	0.00744	0.32940	0.06480	0.00854	2.50740	0.30000	0.01250
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	0.00744	0.32940	0.06480	0.00854	2.50740	0.30000	0.01257
	S1	(!A1 * A3 * S0)	0.01860	0.00100	0.00514	0.32940	0.06480	0.00536	2.50740	0.30000	0.01059
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	0.00510	0.32940	0.06480	0.00537	2.50740	0.30000	0.01063

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

C H V		***					Power(pJ)				
Cell Name	Input	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	S0	(A2 * !A3 * S1)	0.01860	0.00100	0.01198	0.32940	0.06480	0.01168	2.50740	0.30000	0.01184
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	0.01188	0.32940	0.06480	0.01200	2.50740	0.30000	0.01207
sg13g2_mux4_1	SO	(!A2 * A3 * S1)	0.01860	0.00100	0.00813	0.32940	0.06480	0.00779	2.50740	0.30000	0.01368
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	0.00797	0.32940	0.06480	0.00818	2.50740	0.30000	0.01379
	S1	(A1 * !A3 * S0)	0.01860	0.00100	0.00696	0.32940	0.06480	0.00832	2.50740	0.30000	0.01208
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	0.00696	0.32940	0.06480	0.00828	2.50740	0.30000	0.01208
	S1	(!A1 * A3 * S0)	0.01860	0.00100	0.00462	0.32940	0.06480	0.00506	2.50740	0.30000	0.01069
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	0.00398	0.32940	0.06480	0.00441	2.50740	0.30000	0.00992

Passive power(pJ) for S0 rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	Slew(ns) First Slew(ns) Mid Slew(ns) Last					
sg13g2_mux4_1	0.01860	0.01568	0.32940	0.01794	2.50740	0.02456	

Passive power(pJ) for S0 falling:

Call Name	Power(pJ) Slew(ns) First Slew(ns) Mid Slew(ns) Las					
Cell Name						
sg13g2_mux4_1	0.01860	0.01169	0.32940	0.01318	2.50740	0.02636

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

Call Name	When		Power(pJ)						
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(A2 * A3 * S1)	0.01860	0.01500	0.32940	0.01681	2.50740	0.02357		
12.2	(A0 * A1 * !S1)	0.01860	0.01568	0.32940	0.01794	2.50740	0.02456		
sg13g2_mux4_1	(!A2 * !A3 * S1)	0.01860	0.01529	0.32940	0.01709	2.50740	0.02394		
	(!A0 * !A1 * !S1)	0.01860	0.01627	0.32940	0.01858	2.50740	0.02522		

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	0.01036	0.32940	0.01131	2.50740	0.02469	
	(A0 * A1 * !S1)	0.01860	0.01169	0.32940	0.01318	2.50740	0.02636	
sg13g2_mux4_1	(!A2 * !A3 * S1)	0.01860	0.01019	0.32940	0.01110	2.50740	0.02437	
	(!A0 * !A1 * !S1)	0.01860	0.01643	0.32940	0.01903	2.50740	0.02555	

Passive power(pJ) for S1 rising:

Call Name	Power(pJ)						
Cell Name	Slew(ns)	ew(ns) First Slew(ns) Mid Slew(ns) La					
sg13g2_mux4_1	0.01860	0.00441	0.32940	0.00471	2.50740	0.01176	

Passive power(pJ) for S1 falling:

Call Name	Power(pJ) Slew(ns) First Slew(ns) Mid Slew(ns) Last					
Cell Name						
sg13g2_mux4_1	0.01860	0.00425	0.32940	0.00472	2.50740	0.01193

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

C-II N	When Slew(r		Power(pJ)						
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(A1 * A3 * S0)	0.01860	0.00428	0.32940	0.00457	2.50740	0.01158		
12.2	(A0 * A2 * !S0)	0.01860	0.00427	0.32940	0.00456	2.50740	0.01158		
sg13g2_mux4_1	(!A1 * !A3 * S0)	0.01860	0.00441	0.32940	0.00471	2.50740	0.01176		
	(!A0 * !A2 * !S0)	0.01860	0.00442	0.32940	0.00473	2.50740	0.01174		

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	0.00427	0.32940	0.00478	2.50740	0.01214	
12.2	(A0 * A2 * !S0)	0.01860	0.00426	0.32940	0.00476	2.50740	0.01209	
sg13g2_mux4_1	(!A1 * !A3 * S0)	0.01860	0.00424	0.32940	0.00472	2.50740	0.01192	
	(!A0 * !A2 * !S0)	0.01860	0.00425	0.32940	0.00472	2.50740	0.01193	

NAND2B1



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00224	0.00303	0.30000

Call Name		Leakage(pW)					
Cell Name	Min.	Avg	Max.				
sg13g2_nand2b_1	74.95490	128.61800	196.39500				

Delay Information Delay(ns) to Y rising:

Cell Name	Timing	Delay(ns)								
Cen Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-212h 1	A_N->Y (RR)	0.01860	0.00100	0.05209	0.32940	0.06480	0.32004	2.50740	0.30000	1.18183
sg13g2_nand2b_1	B->Y (FR)	0.01860	0.00100	0.02616	0.32940	0.06480	0.37044	2.50740	0.30000	2.06406

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. 1	A_N->Y (FF)	0.01860	0.00100	0.06265	0.32940	0.06480	0.41121	2.50740	0.30000	1.53455	
sg13g2_nand2b_1	B->Y (RF)	0.01860	0.00100	0.03786	0.32940	0.06480	0.44128	2.50740	0.30000	2.32408	

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	0.00193	0.32940	0.06480	0.00194	2.50740	0.30000	0.00185
sg13g2_nand2b_1	В	0.01860	0.00100	0.00204	0.32940	0.06480	0.00202	2.50740	0.30000	0.00307

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	0.00410	0.32940	0.06480	0.00431	2.50740	0.30000	0.00405	
sg13g2_nand2b_1	В	0.01860	0.00100	0.00411	0.32940	0.06480	0.00411	2.50740	0.30000	0.00478	

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	0.00407	0.32940	0.00427	2.50740	0.00998			

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	0.00231	0.32940	0.00256	2.50740	0.00836		

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

Call Name Wh		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand2b_1	!B	0.01860	0.00407	0.32940	0.00427	2.50740	0.00998		

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

Call Name When		Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand2b_1	!B	0.01860	0.00231	0.32940	0.00256	2.50740	0.00836		

NAND2B2



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPU	JT	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	0.00220	0.00562	0.60000	

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_nand2b_2	148.67300	207.93000	357.85200			

Delay Information Delay(ns) to Y rising:

Cell Name	Timing	Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-212h 2	A_N->Y (RR)	0.01860	0.00100	0.06790	0.32940	0.12960	0.35961	2.50740	0.60000	1.27610
sg13g2_nand2b_2	B->Y (FR)	0.01860	0.00100	0.02024	0.32940	0.12960	0.36516	2.50740	0.60000	2.05773

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	0.08421	0.32940	0.12960	0.47235	2.50740	0.60000	1.71059	
sg13g2_nand2b_2	B->Y (RF)	0.01860	0.00100	0.02750	0.32940	0.12960	0.46753	2.50740	0.60000	2.53376	

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	0.00378	0.32940	0.12960	0.00369	2.50740	0.60000	0.00352
sg13g2_nand2b_2	В	0.01860	0.00100	0.00290	0.32940	0.12960	0.00334	2.50740	0.60000	0.00549

Internal switching power(pJ) to Y falling:

Call Name	T4		Power(pJ)								
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
221222 mand2h 2	A_N	0.01860	0.00100	0.00819	0.32940	0.12960	0.00880	2.50740	0.60000	0.00816	
sg13g2_nand2b_2	В	0.01860	0.00100	0.00441	0.32940	0.12960	0.00477	2.50740	0.60000	0.00666	

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	0.00661	0.32940	0.00644	2.50740	0.01154			

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	0.00618	0.32940	0.00621	2.50740	0.01148			

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

Call Name	When	Power(pJ)							
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_nand2b_2	!B	0.01860	0.00661	0.32940	0.00644	2.50740	0.01154		

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	0.00618	0.32940	0.00621	2.50740	0.01148		





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INF	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	0.00559	0.00571	0.60000		
sg13g2_nand2_1	0.00289	0.00298	0.30000		

Call Name		Leakage(pW)					
Cell Name	Min.	Avg	Max.				
sg13g2_nand2_2	85.57640	160.59500	326.29100				
sg13g2_nand2_1	43.35500	81.24560	164.78900				

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	0.02044	0.32940	0.12960	0.36562	2.50740	0.60000	2.05927		
	B->Y (FR)	0.01860	0.00100	0.02461	0.32940	0.12960	0.37031	2.50740	0.60000	2.06489		
cc12c2 nond2 1	A->Y (FR)	0.01860	0.00100	0.02272	0.32940	0.06480	0.36541	2.50740	0.30000	2.05647		
sg13g2_nand2_1 -	B->Y (FR)	0.01860	0.00100	0.02648	0.32940	0.06480	0.36985	2.50740	0.30000	2.06205		

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_212 _ 2	A->Y (RF)	0.01860	0.00100	0.02776	0.32940	0.12960	0.46749	2.50740	0.60000	2.53313		
sg13g2_nand2_2	g13g2_nand2_2 B->Y (RF)	0.01860	0.00100	0.03354	0.32940	0.12960	0.45089	2.50740	0.60000	2.37824		
	A->Y (RF)	0.01860	0.00100	0.03015	0.32940	0.06480	0.45549	2.50740	0.30000	2.47157		
sg13g2_nand2_1	B->Y (RF)	0.01860	0.00100	0.03506	0.32940	0.06480	0.43819	2.50740	0.30000	2.31785		

Internal switching power(pJ) to Y rising:

Cell Name	T4	Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_nand2_2	A	0.01860	0.00100	0.00294	0.32940	0.12960	0.00338	2.50740	0.60000	0.00541	
	В	0.01860	0.00100	0.00384	0.32940	0.12960	0.00377	2.50740	0.60000	0.00571	
12-212 1	A	0.01860	0.00100	0.00167	0.32940	0.06480	0.00183	2.50740	0.30000	0.00290	
sg13g2_nand2_1	В	0.01860	0.00100	0.00192	0.32940	0.06480	0.00188	2.50740	0.30000	0.00296	

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 named 2	A	0.01860	0.00100	0.00442	0.32940	0.12960	0.00482	2.50740	0.60000	0.00657		
sg13g2_nand2_2	В	0.01860	0.00100	0.00781	0.32940	0.12960	0.00791	2.50740	0.60000	0.00911		
221222 mand2 1	A	0.01860	0.00100	0.00235	0.32940	0.06480	0.00246	2.50740	0.30000	0.00335		
sg13g2_nand2_1	В	0.01860	0.00100	0.00409	0.32940	0.06480	0.00409	2.50740	0.30000	0.00474		

NAND3B1



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INI	PUT	[OUTPUT
A_N	В	C	Y
X	0	X	1
X	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
sg13g2_nand3b_1	12.70080

Pin Capacitance Information

Call Name		Pin Cap(pf)	Max Cap(pf)	
Cell Name	A_N	В	C	Y
sg13g2_nand3b_1	0.00222	0.00297	0.00299	0.30000

Call Name		Leakage(pW)							
Cell Name	Min.	Avg	Max.						
sg13g2_nand3b_1	76.84160	134.52400	278.72700						

Delay Information Delay(ns) to Y rising:

Call Name	Timing		g 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	0.05491	0.32940	0.06480	0.32172	2.50740	0.30000	1.18019			
sg13g2_nand3b_1	B->Y (FR)	0.01860	0.00100	0.02918	0.32940	0.06480	0.37343	2.50740	0.30000	2.06706			
	C->Y (FR)	0.01860	0.00100	0.03151	0.32940	0.06480	0.37711	2.50740	0.30000	2.07152			

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	0.07615	0.32940	0.06480	0.54110	2.50740	0.30000	2.09688	
	B->Y (RF)	0.01860	0.00100	0.05623	0.32940	0.06480	0.57299	2.50740	0.30000	2.89043	
	C->Y (RF)	0.01860	0.00100	0.06023	0.32940	0.06480	0.55632	2.50740	0.30000	2.71271	

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	
	A_N	0.01860	0.00100	0.00207	0.32940	0.06480	0.00203	2.50740	0.30000	0.00194	
sg13g2_nand3b_1	В	0.01860	0.00100	0.00224	0.32940	0.06480	0.00218	2.50740	0.30000	0.00307	
	C	0.01860	0.00100	0.00247	0.32940	0.06480	0.00231	2.50740	0.30000	0.00325	

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		
	A_N	0.01860	0.00100	0.00539	0.32940	0.06480	0.00552	2.50740	0.30000	0.00495		
sg13g2_nand3b_1	В	0.01860	0.00100	0.00538	0.32940	0.06480	0.00537	2.50740	0.30000	0.00561		
	C	0.01860	0.00100	0.00687	0.32940	0.06480	0.00689	2.50740	0.30000	0.00704		

Passive power(pJ) for A_N rising:

Cell Name	Power(pJ)							
	Slew(ns)	Slew(ns) First Slew(ns) Mid		Mid	Slew(ns)	Last		
sg13g2_nand3b_1	0.01860	0.00407	0.32940	0.00428	2.50740	0.00998		

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	0.00229	0.32940	0.00254	2.50740	0.00834		

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	0.00407	0.32940	0.00428	2.50740	0.00998	

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	0.00229	0.32940	0.00254	2.50740	0.00834	

NAND3



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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

Call Name		Pin Cap(pf)	Max Cap(pf)		
Cell Name	A	В	C	Y	
sg13g2_nand3_1	0.00288	0.00301	0.00298	0.30000	

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_nand3_1	45.27960	87.18480	247.17300			

Delay Information Delay(ns) to Y rising:

Timing		Delay(ns)									
Cell Name	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	0.02562	0.32940	0.06480	0.36850	2.50740	0.30000	2.06045	
	B->Y (FR)	0.01860	0.00100	0.02954	0.32940	0.06480	0.37306	2.50740	0.30000	2.06682	
	C->Y (FR)	0.01860	0.00100	0.03139	0.32940	0.06480	0.37680	2.50740	0.30000	2.07117	

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	0.04393	0.32940	0.06480	0.57586	2.50740	0.30000	2.99382
	B->Y (RF)	0.01860	0.00100	0.05331	0.32940	0.06480	0.56988	2.50740	0.30000	2.88425
	C->Y (RF)	0.01860	0.00100	0.05715	0.32940	0.06480	0.55316	2.50740	0.30000	2.70611

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	0.00183	0.32940	0.06480	0.00195	2.50740	0.30000	0.00284	
sg13g2_nand3_1	В	0.01860	0.00100	0.00208	0.32940	0.06480	0.00200	2.50740	0.30000	0.00290	
	С	0.01860	0.00100	0.00233	0.32940	0.06480	0.00215	2.50740	0.30000	0.00329	

Internal switching power(pJ) to Y falling:

Call Name	I	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	0.00365	0.32940	0.06480	0.00381	2.50740	0.30000	0.00422	
sg13g2_nand3_1	В	0.01860	0.00100	0.00541	0.32940	0.06480	0.00537	2.50740	0.30000	0.00556	
	С	0.01860	0.00100	0.00688	0.32940	0.06480	0.00690	2.50740	0.30000	0.00701	

NAND4



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	Y			
sg13g2_nand4_1	0.00287	0.00301	0.00303	0.00300	0.30000

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_nand4_1	47.46070	91.57180	329.65400				

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	0.02725	0.32940	0.06480	0.37023	2.50740	0.30000	2.06166
	B->Y (FR)	0.01860	0.00100	0.03124	0.32940	0.06480	0.37490	2.50740	0.30000	2.06782
sg13g2_nand4_1	C->Y (FR)	0.01860	0.00100	0.03342	0.32940	0.06480	0.37900	2.50740	0.30000	2.07381
	D->Y (FR)	0.01860	0.00100	0.03418	0.32940	0.06480	0.38221	2.50740	0.30000	2.07837

Delay(ns) to Y falling:

C.II.N.	Timing	Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (RF)	0.01860	0.00100	0.05714	0.32940	0.06480	0.69756	2.50740	0.30000	3.51282
12.214.1	B->Y (RF)	0.01860	0.00100	0.07122	0.32940	0.06480	0.70115	2.50740	0.30000	3.43740
sg13g2_nand4_1	C->Y (RF)	0.01860	0.00100	0.07919	0.32940	0.06480	0.69229	2.50740	0.30000	3.28792
	D->Y (RF)	0.01860	0.00100	0.08296	0.32940	0.06480	0.68493	2.50740	0.30000	3.15950

Internal switching power(pJ) to Y rising:

Call Name	I4	Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	0.01860	0.00100	0.00189	0.32940	0.06480	0.00201	2.50740	0.30000	0.00291	
12-214 1	В	0.01860	0.00100	0.00215	0.32940	0.06480	0.00206	2.50740	0.30000	0.00274	
sg13g2_nand4_1	С	0.01860	0.00100	0.00242	0.32940	0.06480	0.00222	2.50740	0.30000	0.00296	
	D	0.01860	0.00100	0.00264	0.32940	0.06480	0.00240	2.50740	0.30000	0.00324	

Internal switching power(pJ) to Y falling:

Call Name	T4		Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
	A	0.01860	0.00100	0.00441	0.32940	0.06480	0.00437	2.50740	0.30000	0.00522		
12-2 14 1	В	0.01860	0.00100	0.00617	0.32940	0.06480	0.00601	2.50740	0.30000	0.00661		
sg13g2_nand4_1	С	0.01860	0.00100	0.00767	0.32940	0.06480	0.00752	2.50740	0.30000	0.00805		
	D	0.01860	0.00100	0.00911	0.32940	0.06480	0.00896	2.50740	0.30000	0.00941		





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00567	0.00268	0.60000	
sg13g2_nor2b_1	0.00292	0.00227	0.30000	

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_nor2b_2	165.68700	219.03100	278.86400			
sg13g2_nor2b_1	97.25820	130.25800	166.69400			

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	0.03072	0.32940	0.12960	0.54838	2.50740	0.60000	2.89584	
sg13g2_nor2b_2	B_N->Y (RR)	0.01860	0.00100	0.07856	0.32940	0.12960	0.55546	2.50740	0.60000	2.15312	
12-22h 1	A->Y (FR)	0.01860	0.00100	0.03532	0.32940	0.06480	0.54959	2.50740	0.30000	2.89765	
sg13g2_nor2b_1	B_N->Y (RR)	0.01860	0.00100	0.07189	0.32940	0.06480	0.52910	2.50740	0.30000	2.08124	

Delay(ns) to Y falling:

Call Name	Timing	Delay(ns)								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-22h 2	A->Y (RF)	0.01860	0.00100	0.02005	0.32940	0.12960	0.34723	2.50740	0.60000	1.96978
sg13g2_nor2b_2	B_N->Y (FF)	0.01860	0.00100	0.07005	0.32940	0.12960	0.32750	2.50740	0.60000	1.08365
12-22h 1	A->Y (RF)	0.01860	0.00100	0.02186	0.32940	0.06480	0.33952	2.50740	0.30000	1.92662
sg13g2_nor2b_1	B_N->Y (FF)	0.01860	0.00100	0.05893	0.32940	0.06480	0.29350	2.50740	0.30000	0.99476

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
12-22h 2	A	0.01860	0.00100	0.00422	0.32940	0.12960	0.00453	2.50740	0.60000	0.00647
sg13g2_nor2b_2	B_N	0.01860	0.00100	0.00842	0.32940	0.12960	0.00878	2.50740	0.60000	0.00788
12.2 21.1	A	0.01860	0.00100	0.00214	0.32940	0.06480	0.00223	2.50740	0.30000	0.00316
sg13g2_nor2b_1	B_N	0.01860	0.00100	0.00437	0.32940	0.06480	0.00455	2.50740	0.30000	0.00397

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	0.00291	0.32940	0.12960	0.00354	2.50740	0.60000	0.00571
sg13g2_nor2b_2	B_N	0.01860	0.00100	0.00419	0.32940	0.12960	0.00419	2.50740	0.60000	0.00396
12-22h 1	A	0.01860	0.00100	0.00187	0.32940	0.06480	0.00208	2.50740	0.30000	0.00311
sg13g2_nor2b_1	B_N	0.01860	0.00100	0.00233	0.32940	0.06480	0.00233	2.50740	0.30000	0.00224

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	0.00738	0.32940	0.00731	2.50740	0.01367			
sg13g2_nor2b_1	0.01860	0.00416	0.32940	0.00424	2.50740	0.00982			

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	0.00629	0.32940	0.00641	2.50740	0.01275			
sg13g2_nor2b_1	0.01860	0.00370	0.32940	0.00389	2.50740	0.00955			

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	0.00738	0.32940	0.00731	2.50740	0.01367	
sg13g2_nor2b_1	A	0.01860	0.00416	0.32940	0.00424	2.50740	0.00982	

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	0.00629	0.32940	0.00641	2.50740	0.01275	
sg13g2_nor2b_1	A	0.01860	0.00370	0.32940	0.00389	2.50740	0.00955	

NOR2x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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)
	A	В	Y
sg13g2_nor2_2	0.00580	0.00560	0.30000
sg13g2_nor2_1	0.00304	0.00292	0.30000

Cell Name		Leakage(pW)						
Cell Name	Min.	Avg	Max.					
sg13g2_nor2_2	131.42600	165.86100	207.25700					
sg13g2_nor2_1	65.68830	82.92350	103.60100					

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	0.03939	0.32940	0.06480	0.33802	2.50740	0.30000	1.72753	
	B->Y (FR)	0.01860	0.00100	0.03106	0.32940	0.06480	0.35427	2.50740	0.30000	1.90204	
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	0.04195	0.32940	0.06480	0.52887	2.50740	0.30000	2.68189	
	B->Y (FR)	0.01860	0.00100	0.03544	0.32940	0.06480	0.54924	2.50740	0.30000	2.89652	

Delay(ns) to Y falling:

Coll Name	Timing	Delay(ns)								
Cell Name	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	0.02364	0.32940	0.06480	0.24616	2.50740	0.30000	1.36156
	B->Y (RF)	0.01860	0.00100	0.01976	0.32940	0.06480	0.23980	2.50740	0.30000	1.35258
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	0.02515	0.32940	0.06480	0.34378	2.50740	0.30000	1.93182
	B->Y (RF)	0.01860	0.00100	0.02194	0.32940	0.06480	0.33953	2.50740	0.30000	1.92656

Internal switching power(pJ) to Y rising:

Cell Name	T4		Power(pJ)									
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
12.2 2.2	A	0.01860	0.00100	0.00872	0.32940	0.06480	0.00863	2.50740	0.30000	0.01174		
sg13g2_nor2_2	В	0.01860	0.00100	0.00431	0.32940	0.06480	0.00469	2.50740	0.30000	0.00883		
sg13g2_nor2_1	A	0.01860	0.00100	0.00432	0.32940	0.06480	0.00424	2.50740	0.30000	0.00493		
	В	0.01860	0.00100	0.00215	0.32940	0.06480	0.00224	2.50740	0.30000	0.00327		

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

Cell Name	T4	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	0.00405	0.32940	0.06480	0.00403	2.50740	0.30000	0.00793	
sg13g2_nor2_2	В	0.01860	0.00100	0.00285	0.32940	0.06480	0.00341	2.50740	0.30000	0.00750	
sg13g2_nor2_1	A	0.01860	0.00100	0.00203	0.32940	0.06480	0.00194	2.50740	0.30000	0.00310	
	В	0.01860	0.00100	0.00186	0.32940	0.06480	0.00207	2.50740	0.30000	0.00312	

NOR3x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

IN	IPU	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	0.00576	0.00575	0.00557	0.60000		
sg13g2_nor3_1	0.00301	0.00302	0.00290	0.30000		

Cell Name	Leakage(pW)						
	Min.	Avg	Max.				
sg13g2_nor3_2	134.33600	185.71000	261.22200				
sg13g2_nor3_1	69.66900	95.08410	133.66500				

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_nor3_2	A->Y (FR)	0.01860	0.00100	0.06982	0.32940	0.12960	0.73100	2.50740	0.60000	3.39595	
	B->Y (FR)	0.01860	0.00100	0.06470	0.32940	0.12960	0.74456	2.50740	0.60000	3.59840	
	C->Y (FR)	0.01860	0.00100	0.04630	0.32940	0.12960	0.74282	2.50740	0.60000	3.73142	
	A->Y (FR)	0.01860	0.00100	0.07677	0.32940	0.06480	0.73031	2.50740	0.30000	3.38852	
sg13g2_nor3_1	B->Y (FR)	0.01860	0.00100	0.07133	0.32940	0.06480	0.74307	2.50740	0.30000	3.58586	
	C->Y (FR)	0.01860	0.00100	0.05497	0.32940	0.06480	0.74326	2.50740	0.30000	3.72150	

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_nor3_2	A->Y (RF)	0.01860	0.00100	0.02627	0.32940	0.12960	0.35032	2.50740	0.60000	1.94158
	B->Y (RF)	0.01860	0.00100	0.02600	0.32940	0.12960	0.34673	2.50740	0.60000	1.93762
	C->Y (RF)	0.01860	0.00100	0.02192	0.32940	0.12960	0.34134	2.50740	0.60000	1.93061
	A->Y (RF)	0.01860	0.00100	0.02780	0.32940	0.06480	0.34248	2.50740	0.30000	1.89721
sg13g2_nor3_1	B->Y (RF)	0.01860	0.00100	0.02736	0.32940	0.06480	0.33955	2.50740	0.30000	1.89610
	C->Y (RF)	0.01860	0.00100	0.02386	0.32940	0.06480	0.33476	2.50740	0.30000	1.88945

Internal switching power(pJ) to Y rising:

Call Name	T4	Power(pJ)										
Cell Name Input	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
	A	0.01860	0.00100	0.01431	0.32940	0.12960	0.01406	2.50740	0.60000	0.01564		
sg13g2_nor3_2	В	0.01860	0.00100	0.01050	0.32940	0.12960	0.01031	2.50740	0.60000	0.01162		
	С	0.01860	0.00100	0.00615	0.32940	0.12960	0.00629	2.50740	0.60000	0.00834		
	A	0.01860	0.00100	0.00738	0.32940	0.06480	0.00723	2.50740	0.30000	0.00840		
sg13g2_nor3_1	В	0.01860	0.00100	0.00547	0.32940	0.06480	0.00535	2.50740	0.30000	0.00606		
	C	0.01860	0.00100	0.00334	0.32940	0.06480	0.00337	2.50740	0.30000	0.00441		

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	
	A	0.01860	0.00100	0.00501	0.32940	0.12960	0.00461	2.50740	0.60000	0.00670	
sg13g2_nor3_2	В	0.01860	0.00100	0.00455	0.32940	0.12960	0.00438	2.50740	0.60000	0.00636	
	С	0.01860	0.00100	0.00318	0.32940	0.12960	0.00368	2.50740	0.60000	0.00569	
	A	0.01860	0.00100	0.00274	0.32940	0.06480	0.00251	2.50740	0.30000	0.00353	
sg13g2_nor3_1	В	0.01860	0.00100	0.00246	0.32940	0.06480	0.00233	2.50740	0.30000	0.00342	
	С	0.01860	0.00100	0.00202	0.32940	0.06480	0.00216	2.50740	0.30000	0.00315	

NOR4x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00576	0.00572	0.00567	0.00553	0.60000		
sg13g2_nor4_1	0.00299	0.00300	0.00297	0.00283	0.30000		

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_nor4_2	138.95900	199.53500	348.29500					
sg13g2_nor4_1	69.49250	99.76180	174.14900					

Delay Information Delay(ns) to Y rising:

Call Massa	Timing					Delay(ns)				
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (FR)	0.01860	0.00100	0.11120	0.32940	0.12960	0.95763	2.50740	0.60000	4.20275
	B->Y (FR)	0.01860	0.00100	0.10640	0.32940	0.12960	0.96145	2.50740	0.60000	4.33699
sg13g2_nor4_2	C->Y (FR)	0.01860	0.00100	0.09149	0.32940	0.12960	0.95917	2.50740	0.60000	4.48963
	D->Y (FR)	0.01860	0.00100	0.06227	0.32940	0.12960	0.94182	2.50740	0.60000	4.57077
	A->Y (FR)	0.01860	0.00100	0.11587	0.32940	0.06480	0.95079	2.50740	0.30000	4.17770
12.2	B->Y (FR)	0.01860	0.00100	0.11097	0.32940	0.06480	0.95424	2.50740	0.30000	4.31428
sg13g2_nor4_1	C->Y (FR)	0.01860	0.00100	0.09763	0.32940	0.06480	0.95419	2.50740	0.30000	4.46944
	D->Y (FR)	0.01860	0.00100	0.07128	0.32940	0.06480	0.93948	2.50740	0.30000	4.55137

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	0.02763	0.32940	0.12960	0.35599	2.50740	0.60000	1.94959
12.2	B->Y (RF)	0.01860	0.00100	0.02848	0.32940	0.12960	0.35308	2.50740	0.60000	1.94619
sg13g2_nor4_2	C->Y (RF)	0.01860	0.00100	0.02755	0.32940	0.12960	0.34871	2.50740	0.60000	1.93899
	D->Y (RF)	0.01860	0.00100	0.02358	0.32940	0.12960	0.34258	2.50740	0.60000	1.93068
	A->Y (RF)	0.01860	0.00100	0.02947	0.32940	0.06480	0.35568	2.50740	0.30000	1.94764
	B->Y (RF)	0.01860	0.00100	0.03021	0.32940	0.06480	0.35333	2.50740	0.30000	1.94678
sg13g2_nor4_1	C->Y (RF)	0.01860	0.00100	0.02921	0.32940	0.06480	0.34891	2.50740	0.30000	1.94061
	D->Y (RF)	0.01860	0.00100	0.02545	0.32940	0.06480	0.34431	2.50740	0.30000	1.93492

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	0.01964	0.32940	0.12960	0.01952	2.50740	0.60000	0.02003	
221222 224 2	В	0.01860	0.00100	0.01596	0.32940	0.12960	0.01578	2.50740	0.60000	0.01628	
sg13g2_nor4_2	C	0.01860	0.00100	0.01224	0.32940	0.12960	0.01212	2.50740	0.60000	0.01296	
	D	0.01860	0.00100	0.00794	0.32940	0.12960	0.00817	2.50740	0.60000	0.00964	
	A	0.01860	0.00100	0.00969	0.32940	0.06480	0.00962	2.50740	0.30000	0.00981	
12-24 1	В	0.01860	0.00100	0.00782	0.32940	0.06480	0.00772	2.50740	0.30000	0.00802	
sg13g2_nor4_1	С	0.01860	0.00100	0.00596	0.32940	0.06480	0.00596	2.50740	0.30000	0.00619	
	D	0.01860	0.00100	0.00387	0.32940	0.06480	0.00385	2.50740	0.30000	0.00471	

Internal switching power(pJ) to Y falling:

CHN	T .	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	0.00623	0.32940	0.12960	0.00566	2.50740	0.60000	0.00770		
aa12a2 man4 2	В	0.01860	0.00100	0.00583	0.32940	0.12960	0.00527	2.50740	0.60000	0.00724		
sg13g2_nor4_2	С	0.01860	0.00100	0.00468	0.32940	0.12960	0.00462	2.50740	0.60000	0.00635		
	D	0.01860	0.00100	0.00333	0.32940	0.12960	0.00387	2.50740	0.60000	0.00574		
	A	0.01860	0.00100	0.00316	0.32940	0.06480	0.00287	2.50740	0.30000	0.00372		
aa12a2 man4 1	В	0.01860	0.00100	0.00297	0.32940	0.06480	0.00274	2.50740	0.30000	0.00362		
sg13g2_nor4_1	C	0.01860	0.00100	0.00257	0.32940	0.06480	0.00255	2.50740	0.30000	0.00337		
	D	0.01860	0.00100	0.00208	0.32940	0.06480	0.00233	2.50740	0.30000	0.00322		

NP_ANT



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

INPUT						
A						
X						

Footprint

Cell Name	Area		
sg13g2_antennanp	5.44320		

Pin Capacitance Information

Call Name	Pin Cap(pf)			
Cell Name	A			
sg13g2_antennanp	0.00108			

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_antennanp	4.32000	4.32001	4.32002			

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	-0.00027	0.32940	-0.00028	2.50740	-0.00028				

Passive power(pJ) for A falling:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_antennanp	0.01860	0.00027	0.32940	0.00028	2.50740	0.00028			

O21AI



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

I	NPU'	Т	OUTPUT
A1	A2	B1	Y
0	0	X	1
x	1	0	1
x	1	1	0
1	X	0	1
1	x	1	0

Footprint

Cell Name	Area
sg13g2_o21ai_1	9.07200

Pin Capacitance Information

Call Name		Pin Cap(pf)	Max Cap(pf)		
Cell Name	A1	A2	B1	Y	
sg13g2_o21ai_1	0.00337	0.00334	0.00321	0.30000	

Call Name	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_o21ai_1	81.51310	126.64000	169.69100				

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	0.06684	0.32940	0.06480	0.62657	2.50740	0.30000	3.04503	
	A2->Y (FR)	0.01860	0.00100	0.05848	0.32940	0.06480	0.64601	2.50740	0.30000	3.28783	
	B1->Y (FR)	0.01860	0.00100	0.02621	0.32940	0.06480	0.41115	2.50740	0.30000	2.29607	

Delay(ns) to Y falling:

Cell Name	Timing	Delay(ns)								
	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (RF)	0.01860	0.00100	0.04634	0.32940	0.06480	0.44461	2.50740	0.30000	2.26400
	A2->Y (RF)	0.01860	0.00100	0.03932	0.32940	0.06480	0.43562	2.50740	0.30000	2.25106
	B1->Y (RF)	0.01860	0.00100	0.03053	0.32940	0.06480	0.45063	2.50740	0.30000	2.42144

Delay(ns) to Y rising (conditional):

Call Name	Timing	When					Delay(ns)				
Cell Name	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	0.02621	0.32940	0.06480	0.41115	2.50740	0.30000	2.29607

Delay(ns) to Y falling (conditional):

Call Name	Timing	When					Delay(ns)				
l Cell Name	Arc(Dir)	r) 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	0.03053	0.32940	0.06480	0.45063	2.50740	0.30000	2.42144

Internal switching power(pJ) to Y rising:

C.II N	Innut		Power(pJ)										
Cell Name	Input		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
	A1	0.01860	0.00100	0.00513	0.32940	0.06480	0.00491	2.50740	0.30000	0.00597			
sg13g2_o21ai_1	A2	0.01860	0.00100	0.00275	0.32940	0.06480	0.00262	2.50740	0.30000	0.00405			
	B1	0.01860	0.00100	0.00173	0.32940	0.06480	0.00196	2.50740	0.30000	0.00289			

Internal switching power(pJ) to Y falling:

Cell Name	Immut		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	0.00479	0.32940	0.06480	0.00456	2.50740	0.30000	0.00540			
sg13g2_o21ai_1	A2	0.01860	0.00100	0.00453	0.32940	0.06480	0.00461	2.50740	0.30000	0.00543			
	B1	0.01860	0.00100	0.00242	0.32940	0.06480	0.00258	2.50740	0.30000	0.00373			

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

Cell Name Inpu	Innut	t When		Power(pJ)									
Cen Name	Input		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	0.00173	0.32940	0.06480	0.00196	2.50740	0.30000	0.00289		

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

Cell Name Input	When		Power(pJ)								
Cen Name	Input	put When		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	0.00242	0.32940	0.06480	0.00258	2.50740	0.30000	0.00373

OR2x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00246	0.00228	0.60000
sg13g2_or2_1	0.00247	0.00230	0.30000

Call Name		Leakage(pW)						
Cell Name	Min.	Avg	Max.					
sg13g2_or2_2	133.87800	168.11900	227.96300					
sg13g2_or2_1	90.37420	114.89500	145.58000					

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	0.06658	0.32940	0.12960	0.37124	2.50740	0.60000	1.30641			
sg13g2_or2_2	B->X (RR)	0.01860	0.00100	0.06267	0.32940	0.12960	0.35927	2.50740	0.60000	1.27516			
	A->X (RR)	0.01860	0.00100	0.05637	0.32940	0.06480	0.33662	2.50740	0.30000	1.21571			
sg13g2_or2_1	B->X (RR)	0.01860	0.00100	0.05219	0.32940	0.06480	0.32237	2.50740	0.30000	1.17449			

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	0.12057	0.32940	0.12960	0.39391	2.50740	0.60000	1.19526			
sg13g2_or2_2	B->X (FF)	0.01860	0.00100	0.11423	0.32940	0.12960	0.40104	2.50740	0.60000	1.22599			
10.0	A->X (FF)	0.01860	0.00100	0.09273	0.32940	0.06480	0.33811	2.50740	0.30000	1.08136			
sg13g2_or2_1	B->X (FF)	0.01860	0.00100	0.08602	0.32940	0.06480	0.33897	2.50740	0.30000	1.09223			

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		
ag12g2 aw2 2	A	0.01860	0.00100	0.00995	0.32940	0.12960	0.01023	2.50740	0.60000	0.01443		
sg13g2_or2_2	В	0.01860	0.00100	0.00983	0.32940	0.12960	0.00996	2.50740	0.60000	0.01449		
12-22 1	A	0.01860	0.00100	0.00609	0.32940	0.06480	0.00617	2.50740	0.30000	0.01087		
sg13g2_or2_1	В	0.01860	0.00100	0.00591	0.32940	0.06480	0.00594	2.50740	0.30000	0.01100		

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

Call Name	I4		Power(pJ)										
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last			
12-22 2	A	0.01860	0.00100	0.01138	0.32940	0.12960	0.01164	2.50740	0.60000	0.01511			
sg13g2_or2_2	В	0.01860	0.00100	0.00993	0.32940	0.12960	0.01015	2.50740	0.60000	0.01477			
12-22 1	A	0.01860	0.00100	0.00750	0.32940	0.06480	0.00768	2.50740	0.30000	0.01195			
sg13g2_or2_1	В	0.01860	0.00100	0.00600	0.32940	0.06480	0.00637	2.50740	0.30000	0.01127			

OR3x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00259	0.00252	0.00240	0.60000
sg13g2_or3_1	0.00259	0.00253	0.00240	0.30000

Coll Nome	Leakage(pW)						
Cell Name	Min.	Avg	Max.				
sg13g2_or3_2	137.31300	170.38500	269.49300				
sg13g2_or3_1	93.66890	121.92300	187.05400				

Delay Information Delay(ns) to X 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_or3_2	A->X (RR)	0.01860	0.00100	0.07447	0.32940	0.12960	0.39208	2.50740	0.60000	1.37326	
	B->X (RR)	0.01860	0.00100	0.07163	0.32940	0.12960	0.38272	2.50740	0.60000	1.33879	
	C->X (RR)	0.01860	0.00100	0.06623	0.32940	0.12960	0.36892	2.50740	0.60000	1.30090	
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	0.06456	0.32940	0.06480	0.36050	2.50740	0.30000	1.28954	
	B->X (RR)	0.01860	0.00100	0.06194	0.32940	0.06480	0.34982	2.50740	0.30000	1.25198	
	C->X (RR)	0.01860	0.00100	0.05640	0.32940	0.06480	0.33343	2.50740	0.30000	1.20917	

Delay(ns) to X falling:

Call Name	Timing	Delay(ns)									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_or3_2	A->X (FF)	0.01860	0.00100	0.16711	0.32940	0.12960	0.44477	2.50740	0.60000	1.21711	
	B->X (FF)	0.01860	0.00100	0.16225	0.32940	0.12960	0.45225	2.50740	0.60000	1.27469	
	C->X (FF)	0.01860	0.00100	0.14715	0.32940	0.12960	0.44597	2.50740	0.60000	1.28081	
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	0.13296	0.32940	0.06480	0.38475	2.50740	0.30000	1.11106	
	B->X (FF)	0.01860	0.00100	0.12811	0.32940	0.06480	0.38830	2.50740	0.30000	1.15326	
	C->X (FF)	0.01860	0.00100	0.11264	0.32940	0.06480	0.37684	2.50740	0.30000	1.14576	

Internal switching power(pJ) to X rising:

G H N	Input	Power(pJ)									
Cell Name		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_or3_2	A	0.01860	0.00100	0.01032	0.32940	0.12960	0.01060	2.50740	0.60000	0.01470	
	В	0.01860	0.00100	0.01015	0.32940	0.12960	0.01044	2.50740	0.60000	0.01447	
	C	0.01860	0.00100	0.00990	0.32940	0.12960	0.01001	2.50740	0.60000	0.01466	
	A	0.01860	0.00100	0.00644	0.32940	0.06480	0.00641	2.50740	0.30000	0.01106	
sg13g2_or3_1	В	0.01860	0.00100	0.00629	0.32940	0.06480	0.00621	2.50740	0.30000	0.01090	
	C	0.01860	0.00100	0.00599	0.32940	0.06480	0.00593	2.50740	0.30000	0.01114	

Internal switching power(pJ) to X falling:

CHN		Power(pJ)									
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
sg13g2_or3_2	A	0.01860	0.00100	0.01472	0.32940	0.12960	0.01479	2.50740	0.60000	0.01808	
	В	0.01860	0.00100	0.01308	0.32940	0.12960	0.01310	2.50740	0.60000	0.01652	
	C	0.01860	0.00100	0.01131	0.32940	0.12960	0.01147	2.50740	0.60000	0.01578	
	A	0.01860	0.00100	0.01061	0.32940	0.06480	0.01074	2.50740	0.30000	0.01435	
sg13g2_or3_1	В	0.01860	0.00100	0.00897	0.32940	0.06480	0.00903	2.50740	0.30000	0.01317	
	C	0.01860	0.00100	0.00717	0.32940	0.06480	0.00741	2.50740	0.30000	0.01235	

OR4x



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

-	INF	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	0.00257	0.00250	0.00246	0.00238	0.60000
sg13g2_or4_1	0.00259	0.00250	0.00246	0.00238	0.30000

Leakage Information

Cell Name	Leakage(pW)					
	Min.	Avg	Max.			
sg13g2_or4_2	139.55600	170.08500	304.38300			
sg13g2_or4_1	96.02690	124.10900	221.97300			

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	0.07771	0.32940	0.12960	0.40363	2.50740	0.60000	1.40455
12-24 2	B->X (RR)	0.01860	0.00100	0.07654	0.32940	0.12960	0.39646	2.50740	0.60000	1.37727
sg13g2_or4_2	C->X (RR)	0.01860	0.00100	0.07271	0.32940	0.12960	0.38575	2.50740	0.60000	1.33701
	D->X (RR)	0.01860	0.00100	0.06714	0.32940	0.12960	0.37189	2.50740	0.60000	1.30030
	A->X (RR)	0.01860	0.00100	0.06755	0.32940	0.06480	0.37418	2.50740	0.30000	1.32518
12-24 1	B->X (RR)	0.01860	0.00100	0.06677	0.32940	0.06480	0.36556	2.50740	0.30000	1.29159
sg13g2_or4_1	C->X (RR)	0.01860	0.00100	0.06321	0.32940	0.06480	0.35314	2.50740	0.30000	1.25189
	D->X (RR)	0.01860	0.00100	0.05748	0.32940	0.06480	0.33765	2.50740	0.30000	1.20862

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	0.23170	0.32940	0.12960	0.52705	2.50740	0.60000	1.29360
12-24 2	B->X (FF)	0.01860	0.00100	0.22672	0.32940	0.12960	0.52853	2.50740	0.60000	1.34800
sg13g2_or4_2	C->X (FF)	0.01860	0.00100	0.21168	0.32940	0.12960	0.52154	2.50740	0.60000	1.38520
	D->X (FF)	0.01860	0.00100	0.18682	0.32940	0.12960	0.50502	2.50740	0.60000	1.37731
	A->X (FF)	0.01860	0.00100	0.18632	0.32940	0.06480	0.45415	2.50740	0.30000	1.18113
12-24 1	B->X (FF)	0.01860	0.00100	0.18132	0.32940	0.06480	0.45422	2.50740	0.30000	1.22272
sg13g2_or4_1	C->X (FF)	0.01860	0.00100	0.16624	0.32940	0.06480	0.44377	2.50740	0.30000	1.24595
	D->X (FF)	0.01860	0.00100	0.14072	0.32940	0.06480	0.42291	2.50740	0.30000	1.22607

Power Information

Internal switching power(pJ) to X rising:

Cell Name	T4	Power(pJ)								
Cen Ivanie	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12.2.4.2	A	0.01860	0.00100	0.01092	0.32940	0.12960	0.01119	2.50740	0.60000	0.01460
	В	0.01860	0.00100	0.01071	0.32940	0.12960	0.01090	2.50740	0.60000	0.01442
sg13g2_or4_2	C	0.01860	0.00100	0.01020	0.32940	0.12960	0.01054	2.50740	0.60000	0.01417
	D	0.01860	0.00100	0.00991	0.32940	0.12960	0.01010	2.50740	0.60000	0.01423
	A	0.01860	0.00100	0.00703	0.32940	0.06480	0.00704	2.50740	0.30000	0.01109
991392 and 1	В	0.01860	0.00100	0.00682	0.32940	0.06480	0.00674	2.50740	0.30000	0.01084
sg13g2_or4_1	С	0.01860	0.00100	0.00632	0.32940	0.06480	0.00627	2.50740	0.30000	0.01051
	D	0.01860	0.00100	0.00600	0.32940	0.06480	0.00596	2.50740	0.30000	0.01069

Internal switching power(pJ) to X falling:

Cell Name	T4				Power(pJ)					
	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A	0.01860	0.00100	0.01720	0.32940	0.12960	0.01663	2.50740	0.60000	0.01881
12-24 2	В	0.01860	0.00100	0.01559	0.32940	0.12960	0.01498	2.50740	0.60000	0.01718
sg13g2_or4_2	C	0.01860	0.00100	0.01394	0.32940	0.12960	0.01335	2.50740	0.60000	0.01599
	D	0.01860	0.00100	0.01217	0.32940	0.12960	0.01169	2.50740	0.60000	0.01547
	A	0.01860	0.00100	0.01262	0.32940	0.06480	0.01271	2.50740	0.30000	0.01534
aa12a2 aud 1	В	0.01860	0.00100	0.01103	0.32940	0.06480	0.01113	2.50740	0.30000	0.01375
sg13g2_or4_1	C	0.01860	0.00100	0.00938	0.32940	0.06480	0.00945	2.50740	0.30000	0.01288
	D	0.01860	0.00100	0.00755	0.32940	0.06480	0.00776	2.50740	0.30000	0.01199

SDFRBPQx



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00277	0.00288	0.00484	0.00511	0.00294	0.60000
sg13g2_sdfrbpq_1	0.00277	0.00289	0.00484	0.00510	0.00294	0.30000

Leakage Information

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_sdfrbpq_2	706.89900	787.14000	906.84600			
sg13g2_sdfrbpq_1	624.49100	720.77300	824.47900			

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	0.19718	0.32940	0.12960	0.50528	2.50740	0.60000	1.37105
sg13g2_sdfrbpq_1	CLK->Q (RR)	0.01860	0.00100	0.17222	0.32940	0.06480	0.46409	2.50740	0.30000	1.32749

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_sdfrbpq_2	CLK->Q (RF)	0.01860	0.00100	0.20779	0.32940	0.12960	0.48452	2.50740	0.60000	1.20921
	RESET_B->Q (FF)	0.01860	0.00100	0.12270	0.32940	0.12960	0.45334	2.50740	0.60000	1.40826
	CLK->Q (RF)	0.01860	0.00100	0.18197	0.32940	0.06480	0.44152	2.50740	0.30000	1.16744
	RESET_B->Q (FF)	0.01860	0.00100	0.09740	0.32940	0.06480	0.40003	2.50740	0.30000	1.28486

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	0.19718	0.32940	0.12960	0.50528	2.50740	0.60000	1.37105
sg13g2_sdfrbpq_2	CLK->Q (RR)	!SCE	0.01860	0.00100	0.19712	0.32940	0.12960	0.50528	2.50740	0.60000	1.37105
12.216.1	CLK->Q (RR)	SCE	0.01860	0.00100	0.17222	0.32940	0.06480	0.46409	2.50740	0.30000	1.32749
sg13g2_sdfrbpq_1	CLK->Q (RR)	!SCE	0.01860	0.00100	0.17220	0.32940	0.06480	0.46409	2.50740	0.30000	1.32749

Delay(ns) to Q falling (conditional):

Cell Name	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
callal adfuhna l	CLK->Q (RF)	RF) SCE	0.01860	0.00100	0.20779	0.32940	0.12960	0.48452	2.50740	0.60000	1.20921
sg13g2_sdfrbpq_2	CLK->Q (RF)	!SCE	0.01860	0.00100	0.20791	0.32940	0.12960	0.48452	2.50740	0.60000	1.20921
12.216.1	CLK->Q (RF)	SCE	0.01860	0.00100	0.18196	0.32940	0.06480	0.44152	2.50740	0.30000	1.16744
sg13g2_sdfrbpq_1	CLK->Q (RF)	!SCE	0.01860	0.00100	0.18197	0.32940	0.06480	0.44152	2.50740	0.30000	1.16744

Constraint Information

Constraints(ns) for D rising:

	T::	D-f				Co	onstraint(r	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.27254	2.50740	2.50740	-0.31286
	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.29952	2.50740	2.50740	0.34238
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.27254	2.50740	2.50740	-0.31286
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.29952	2.50740	2.50740	0.34238

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			
sg13g2_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.19698	2.50740	2.50740	-0.21841			
	setup	CLK (R)	0.01860	0.01860	0.21273	1.26300	1.26300	0.23746	2.50740	2.50740	0.26269			
12-2 -Jf-h 1	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.19698	2.50740	2.50740	-0.21841			
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.21273	1.26300	1.26300	0.23746	2.50740	2.50740	0.26269			

Constraints(ns) for SCD rising:

	TD:	Ref				Co	onstraint(r	ns)			
Cell Name	Timing Check	'	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	hold	CLK (R)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.27254	2.50740	2.50740	-0.31286
	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.29952	2.50740	2.50740	0.34238
12-2 -Jf-h 1	hold	CLK (R)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.27254	2.50740	2.50740	-0.31286
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.19073	1.26300	1.26300	0.29952	2.50740	2.50740	0.34238

Constraints(ns) for SCD falling :

	,	D-£				Co	onstraint(r	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
sal2a2 sdfwhna 2	hold	CLK (R)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.19158	2.50740	2.50740	-0.21546
sg13g2_sdfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.21273	1.26300	1.26300	0.23746	2.50740	2.50740	0.26564
12-2 -Jf-h 1	hold	CLK (R)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.19158	2.50740	2.50740	-0.21546
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.21273	1.26300	1.26300	0.23746	2.50740	2.50740	0.26564

Constraints(ns) for SCE rising:

	T::	Ref				C	onstraint(1	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
sal2a2 sdfrbna 2	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.27254	2.50740	2.50740	-0.32172
sg13g2_sdfrbpq_2	setup	CLK (R)	0.01860	0.01860	0.19317	1.26300	1.26300	0.30222	2.50740	2.50740	0.35123
12.2 16.1	hold	CLK (R)	0.01860	0.01860	-0.14916	1.26300	1.26300	-0.27254	2.50740	2.50740	-0.32172
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.19562	1.26300	1.26300	0.30222	2.50740	2.50740	0.35123

Constraints(ns) for SCE falling:

	T:i	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	-0.15649	1.26300	1.26300	-0.18079	2.50740	2.50740	-0.19185
	setup	CLK (R)	0.01860	0.01860	0.22007	1.26300	1.26300	0.22666	2.50740	2.50740	0.24203
12.2 . 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.15405	1.26300	1.26300	-0.18079	2.50740	2.50740	-0.19185
sg13g2_sdfrbpq_1	setup	CLK (R)	0.01860	0.01860	0.22251	1.26300	1.26300	0.22666	2.50740	2.50740	0.24203

Constraints(ns) for RESET_B rising:

	T::	Ref				Co	onstraint(r	ns)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	recovery	CLK (R)	0.01860	0.01860	0.11737	1.26300	1.26300	0.32110	2.50740	2.50740	0.76740
sg13g2_sd1rbpq_2	removal	CLK (R)	0.01860	0.01860	-0.09781	1.26300	1.26300	-0.25634	2.50740	2.50740	-0.36009
12 2 16 1 1	recovery	CLK (R)	0.01860	0.01860	0.11981	1.26300	1.26300	0.30222	2.50740	2.50740	0.54604
sg13g2_sdfrbpq_1 r	removal	CLK (R)	0.01860	0.01860	-0.09781	1.26300	1.26300	-0.25634	2.50740	2.50740	-0.36009

Constraints(ns) for RESET_B falling:

		Dof				Co	nstraint(n	ıs)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_2	min_pulse_width	RESET_B	0.01860	0.00000	0.13428	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	D-f	Constraint(ns)									
		Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
sg13g2_sdfrbpq_2	min_pulse_width	CLK ()	0.01860	0.00000	0.09262	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	
sg13g2_sdfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.07660	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818	

Constraints(ns) for CLK falling:

Cell Name Timing Che		Dof		Constraint(ns)									
	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last		
sg13g2_sdfrbpq_2	min_pulse_width	CLK ()	0.01860	0.00000	0.12787	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818		
sg13g2_sdfrbpq_1	min_pulse_width	CLK ()	0.01860	0.00000	0.13107	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	0.02492	0.32940	0.12960	0.02520	2.50740	0.60000	0.03388			
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	0.02073	0.32940	0.06480	0.02085	2.50740	0.30000	0.02934			

Internal switching power(pJ) to Q falling:

Cell Name	T4		Power(pJ)										
	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	0.02571	0.32940	0.12960	0.02647	2.50740	0.60000	0.03541			
sg13g2_sdfrbpq_2	RESET_B	0.01860	0.00100	0.02398	0.32940	0.12960	0.02363	2.50740	0.60000	0.02977			
12-216-1 1	CLK	0.01860	0.00100	0.02186	0.32940	0.06480	0.02247	2.50740	0.30000	0.03102			
sg13g2_sdfrbpq_1	RESET_B	0.01860	0.00100	0.02020	0.32940	0.06480	0.01976	2.50740	0.30000	0.02597			

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

Cell Name	T4	Whom	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	0.02492	0.32940	0.12960	0.02520	2.50740	0.60000	0.03388	
sg13g2_sdfrbpq_2	CLK	!SCE	0.01860	0.00100	0.01406	0.32940	0.12960	0.01449	2.50740	0.60000	0.01512	
12-216-1 1	CLK	SCE	0.01860	0.00100	0.02073	0.32940	0.06480	0.02085	2.50740	0.30000	0.02934	
sg13g2_sdfrbpq_1	CLK	!SCE	0.01860	0.00100	0.00989	0.32940	0.06480	0.01014	2.50740	0.30000	0.01058	

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

Cell Name	T4	When	Power(pJ)										
	Input	vviien	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	0.02571	0.32940	0.12960	0.02647	2.50740	0.60000	0.03541		
sg13g2_sdfrbpq_2	CLK	!SCE	0.01860	0.00100	0.01488	0.32940	0.12960	0.01576	2.50740	0.60000	0.01665		
12-216-1 1	CLK	SCE	0.01860	0.00100	0.02186	0.32940	0.06480	0.02247	2.50740	0.30000	0.03102		
sg13g2_sdfrbpq_1	CLK	!SCE	0.01860	0.00100	0.01102	0.32940	0.06480	0.01176	2.50740	0.30000	0.01225		

Passive power(pJ) for D rising:

Cell Name	Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last				
sg13g2_sdfrbpq_2	0.01860	0.02224	0.32940	0.02204	2.50740	0.02857				
sg13g2_sdfrbpq_1	0.01860	0.02187	0.32940	0.02170	2.50740	0.02820				

Passive power(pJ) for D falling:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_sdfrbpq_2	0.01860	0.01897	0.32940	0.01905	2.50740	0.02654					
sg13g2_sdfrbpq_1	0.01860	0.01896	0.32940	0.01905	2.50740	0.02654					

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	0.02224	0.32940	0.02204	2.50740	0.02857			
sg13g2_sdfrbpq_1	(!CLK * RESET_B * !SCE)	0.01860	0.02187	0.32940	0.02170	2.50740	0.02820			

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	0.01897	0.32940	0.01905	2.50740	0.02654			
sg13g2_sdfrbpq_1	(!CLK * RESET_B * !SCE)	0.01860	0.01896	0.32940	0.01905	2.50740	0.02654			

Passive power(pJ) for SCD rising:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_sdfrbpq_2	0.01860	0.02239	0.32940	0.02221	2.50740	0.02871					
sg13g2_sdfrbpq_1	0.01860	0.02203	0.32940	0.02184	2.50740	0.02833					

Passive power(pJ) for SCD falling:

Cell Name		Power(pJ)									
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last					
sg13g2_sdfrbpq_2	0.01860	0.01883	0.32940	0.01892	2.50740	0.02647					
sg13g2_sdfrbpq_1	0.01860	0.01846	0.32940	0.01852	2.50740	0.02607					

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

Call Name	W/la ova	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
sg13g2_sdfrbpq_2	(!CLK * RESET_B * SCE)	0.01860	0.02239	0.32940	0.02221	2.50740	0.02871	
sg13g2_sdfrbpq_1	(!CLK * RESET_B * SCE)	0.01860	0.02203	0.32940	0.02184	2.50740	0.02833	

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	0.01883	0.32940	0.01892	2.50740	0.02647	
sg13g2_sdfrbpq_1	(!CLK * RESET_B * SCE)	0.01860	0.01846	0.32940	0.01852	2.50740	0.02607	

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	0.02569	0.32940	0.02559	2.50740	0.03640		
sg13g2_sdfrbpq_1	0.01860	0.02573	0.32940	0.02560	2.50740	0.03642		

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	0.02511	0.32940	0.04187	2.50740	0.05339		
sg13g2_sdfrbpq_1	0.01860	0.02495	0.32940	0.04173	2.50740	0.05325		

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

Call Name	When	Power(pJ)						
Cell Name		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
12.2 16.1 2	(!CLK * D * RESET_B * !SCD)	0.01860	0.02333	0.32940	0.02330	2.50740	0.02879	
sg13g2_sdfrbpq_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.02569	0.32940	0.02559	2.50740	0.03640	
	(!CLK * D * RESET_B * !SCD)	0.01860	0.02317	0.32940	0.02313	2.50740	0.02863	
sg13g2_sairopq_1	13g2_sdfrbpq_1 (!CLK * !D * RESET_B * SCD)	0.01860	0.02573	0.32940	0.02560	2.50740	0.03642	

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

Call Name	W/la oza	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
12 2 16 1 2	(!CLK * D * RESET_B * !SCD)	0.01860	0.02593	0.32940	0.02602	2.50740	0.03163	
sg13g2_sdfrbpq_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.02511	0.32940	0.04187	2.50740	0.05339	
	(!CLK * D * RESET_B * !SCD)	0.01860	0.02595	0.32940	0.02603	2.50740	0.03165	
sg13g2_sdfrbpq_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.02495	0.32940	0.04173	2.50740	0.05325	

Passive power(pJ) for CLK rising :

Call Marsa	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfrbpq_2	0.01860	0.01085	0.32940	0.01071	2.50740	0.01877		
sg13g2_sdfrbpq_1	0.01860	0.01084	0.32940	0.01071	2.50740	0.01876		

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	0.01103	0.32940	0.01110	2.50740	0.01935		
sg13g2_sdfrbpq_1	0.01860	0.01103	0.32940	0.01110	2.50740	0.01935		

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

Call Name	XX 71			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * Q)	0.01860	0.01107	0.32940	0.01099	2.50740	0.01903
	(RESET_B * !SCD * SCE * !Q)	0.01860	0.01085	0.32940	0.01071	2.50740	0.01877
sg13g2_sdfrbpq_2	(D * RESET_B * !SCE * Q)	0.01860	0.01107	0.32940	0.01099	2.50740	0.01903
	(!RESET_B * !Q)	0.01860	0.01081	0.32940	0.01073	2.50740	0.01873
	(!D * RESET_B * !SCE * !Q)	0.01860	0.01085	0.32940	0.01071	2.50740	0.01877
	(RESET_B * SCD * SCE * Q)	0.01860	0.01107	0.32940	0.01097	2.50740	0.01903
	(RESET_B * !SCD * SCE * !Q)	0.01860	0.01084	0.32940	0.01071	2.50740	0.01876
sg13g2_sdfrbpq_1	(D * RESET_B * !SCE * Q)	0.01860	0.01107	0.32940	0.01097	2.50740	0.01903
	(!RESET_B * !Q)	0.01860	0.01065	0.32940	0.01057	2.50740	0.01857
	(!D * RESET_B * !SCE * !Q)	0.01860	0.01082	0.32940	0.01071	2.50740	0.01876

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

G WAY	***			Powe	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
	(RESET_B * SCD * SCE * Q)	0.01860	0.01103	0.32940	0.01110	2.50740	0.01935
	(RESET_B * SCD * SCE * !Q)	0.01860	0.02067	0.32940	0.02067	2.50740	0.02914
	(RESET_B * !SCD * SCE * Q)	0.01860	0.01930	0.32940	0.01952	2.50740	0.02821
sg13g2_sdfrbpq_2	(RESET_B * !SCD * SCE * !Q)	0.01860	0.01068	0.32940	0.01074	2.50740	0.01897
	(D * RESET_B * !SCE * Q)	0.01860	0.01103	0.32940	0.01110	2.50740	0.01935
	(!RESET_B * !Q)	0.01860	0.01000	0.32940	0.01006	2.50740	0.01828
	(!D * RESET_B * !SCE * !Q)	0.01860	0.01068	0.32940	0.01074	2.50740	0.01897
	(RESET_B * SCD * SCE * Q)	0.01860	0.01103	0.32940	0.01110	2.50740	0.01935
	(RESET_B * SCD * SCE * !Q)	0.01860	0.02066	0.32940	0.02067	2.50740	0.02914
	(RESET_B * !SCD * SCE * Q)	0.01860	0.01930	0.32940	0.01952	2.50740	0.02821
sg13g2_sdfrbpq_1	(RESET_B * !SCD * SCE * !Q)	0.01860	0.01068	0.32940	0.01074	2.50740	0.01897
	(D * RESET_B * !SCE * Q)	0.01860	0.01103	0.32940	0.01110	2.50740	0.01935
	(!RESET_B * !Q)	0.01860	0.00983	0.32940	0.00990	2.50740	0.01812
	(!D * RESET_B * !SCE * !Q)	0.01860	0.01068	0.32940	0.01074	2.50740	0.01897





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00277	0.00288	0.00484	0.00511	0.00294	0.60000	0.60000		
sg13g2_sdfrbp_1	0.00277	0.00289	0.00484	0.00511	0.00294	0.30000	0.30000		

Leakage Information

Call Name		Leakage(pW)	
Cell Name	Min.	Avg	Max.
sg13g2_sdfrbp_2	831.72500	950.94200	1040.34000
sg13g2_sdfrbp_1	705.77900	825.03000	914.43300

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	0.24353	0.32940	0.12960	0.51310	2.50740	0.60000	1.41377
sg13g2_sdfrbp_1	CLK->Q (RR)	0.01860	0.00100	0.19037	0.32940	0.06480	0.46683	2.50740	0.30000	1.36442

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	0.20955	0.32940	0.12960	0.45365	2.50740	0.60000	1.18684
sg13g2_sdfrbp_2	RESET_B->Q (FF)	0.01860	0.00100	0.28082	0.32940	0.12960	0.56181	2.50740	0.60000	1.46905
	CLK->Q (RF)	0.01860	0.00100	0.17253	0.32940	0.06480	0.41565	2.50740	0.30000	1.14381
sg13g2_sdfrbp_1	RESET_B->Q (FF)	0.01860	0.00100	0.24258	0.32940	0.06480	0.52281	2.50740	0.30000	1.42622

Delay(ns) to Q rising (conditional):

Call Name	Timing	33/1					Delay(ns)				
Cell Name	Arc(Dir)	When	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK->Q (RR)	SCE	0.01860	0.00100	0.24353	0.32940	0.12960	0.51310	2.50740	0.60000	1.41377
sg13g2_sdfrbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	0.19037	0.32940	0.06480	0.46683	2.50740	0.30000	1.36442

Delay(ns) to Q falling (conditional):

Cell Name	Timing	When					Delay(ns)				
Cen Name	Arc(Dir)	wnen	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	0.20955	0.32940	0.12960	0.45365	2.50740	0.60000	1.18684
sg13g2_sdfrbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	0.17253	0.32940	0.06480	0.41565	2.50740	0.30000	1.14381

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
201202 adfulu 2	CLK->Q_N (RR)	0.01860	0.00100	0.13911	0.32940	0.12960	0.45004	2.50740	0.60000	1.31279
sg13g2_sdfrbp_2	RESET_B->Q_N (FR)	0.01860	0.00100	0.21192	0.32940	0.12960	0.55688	2.50740	0.60000	1.59507
201202 adfuhu 1	CLK->Q_N (RR)	0.01860	0.00100	0.13246	0.32940	0.06480	0.43172	2.50740	0.30000	1.29213
sg13g2_sdfrbp_1	RESET_B->Q_N (FR)	0.01860	0.00100	0.20307	0.32940	0.06480	0.53706	2.50740	0.30000	1.57306

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	0.15802	0.32940	0.12960	0.46784	2.50740	0.60000	1.24006
sg13g2_sdfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	0.14234	0.32940	0.06480	0.43459	2.50740	0.30000	1.20352

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	0.13911	0.32940	0.12960	0.45004	2.50740	0.60000	1.31279
sg13g2_sdfrbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	0.13246	0.32940	0.06480	0.43172	2.50740	0.30000	1.29213

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	0.15802	0.32940	0.12960	0.46784	2.50740	0.60000	1.24006		
sg13g2_sdfrbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	0.14234	0.32940	0.06480	0.43459	2.50740	0.30000	1.20352		

Constraint Information

Constraints(ns) for D rising:

	TD:	D.C				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	-0.13693	1.26300	1.26300	-0.26444	2.50740	2.50740	-0.30696
sg13g2_sdfrbp_2	setup	CLK (R)	0.01860	0.01860	0.19317	1.26300	1.26300	0.29952	2.50740	2.50740	0.33352
12.216.11	hold	CLK (R)	0.01860	0.01860	-0.13938	1.26300	1.26300	-0.26714	2.50740	2.50740	-0.30696
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.19317	1.26300	1.26300	0.29682	2.50740	2.50740	0.33352

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	-0.13938	1.26300	1.26300	-0.19698	2.50740	2.50740	-0.22432
sg13g2_sdfrbp_2	setup	CLK (R)	0.01860	0.01860	0.22007	1.26300	1.26300	0.24285	2.50740	2.50740	0.26859
12.2 16.1 1	hold	CLK (R)	0.01860	0.01860	-0.13938	1.26300	1.26300	-0.19968	2.50740	2.50740	-0.22432
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.22007	1.26300	1.26300	0.24285	2.50740	2.50740	0.26564

Constraints(ns) for SCD rising:

	T::	Ref	Constraint(ns)									
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
12.216.1 2	hold	CLK (R)	0.01860	0.01860	-0.13693	1.26300	1.26300	-0.26714	2.50740	2.50740	-0.30696	
sg13g2_sdfrbp_2	setup	CLK (R)	0.01860	0.01860	0.19317	1.26300	1.26300	0.29952	2.50740	2.50740	0.33648	
12.216.1 1	hold	CLK (R)	0.01860	0.01860	-0.13938	1.26300	1.26300	-0.26714	2.50740	2.50740	-0.30696	
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.19317	1.26300	1.26300	0.29682	2.50740	2.50740	0.33648	

Constraints(ns) for SCD falling:

	m:	Ref				Co	onstraint(r	ns)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_2	hold	CLK (R)	0.01860	0.01860	-0.13938	1.26300	1.26300	-0.19158	2.50740	2.50740	-0.22432
sg13g2_sd1rbp_2	setup	CLK (R)	0.01860	0.01860	0.22007	1.26300	1.26300	0.24285	2.50740	2.50740	0.26859
12.216.1 1	hold	CLK (R)	0.01860	0.01860	-0.13938	1.26300	1.26300	-0.19428	2.50740	2.50740	-0.22432
sg13g2_sdfrbp_1	setup	CLK (R)	0.01860	0.01860	0.22007	1.26300	1.26300	0.24285	2.50740	2.50740	0.26564

Constraints(ns) for SCE rising:

	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_1	hold	CLK (R)	0.01860	0.01860	-0.13938	1.26300	1.26300	-0.26714	2.50740	2.50740	-0.31582
	setup	CLK (R)	0.01860	0.01860	0.19562	1.26300	1.26300	0.29952	2.50740	2.50740	0.34533
	hold	CLK (R)	0.01860	0.01860	-0.14182	1.26300	1.26300	-0.26714	2.50740	2.50740	-0.31582
	setup	CLK (R)	0.01860	0.01860	0.19562	1.26300	1.26300	0.29952	2.50740	2.50740	0.34533

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
sg13g2_sdfrbp_1	hold	CLK (R)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.18079	2.50740	2.50740	-0.20070
	setup	CLK (R)	0.01860	0.01860	0.22740	1.26300	1.26300	0.23206	2.50740	2.50740	0.24793
	hold	CLK (R)	0.01860	0.01860	-0.14671	1.26300	1.26300	-0.18349	2.50740	2.50740	-0.20070
	setup	CLK (R)	0.01860	0.01860	0.22740	1.26300	1.26300	0.22936	2.50740	2.50740	0.24498

Constraints(ns) for RESET_B rising:

	Timing	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 sg13g2_sdfrbp_1	recovery	CLK (R)	0.01860	0.01860	0.11981	1.26300	1.26300	0.27254	2.50740	2.50740	0.37780
	removal	CLK (R)	0.01860	0.01860	-0.10514	1.26300	1.26300	-0.26174	2.50740	2.50740	-0.36599
	recovery	CLK (R)	0.01860	0.01860	0.12226	1.26300	1.26300	0.27254	2.50740	2.50740	0.37484
	removal	CLK (R)	0.01860	0.01860	-0.10270	1.26300	1.26300	-0.25904	2.50740	2.50740	-0.36599

Constraints(ns) for RESET_B falling:

		D-£				Co	onstraint(n	s)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_2	min_pulse_width	RESET_B	0.01860	0.00000	0.11505	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:

G II V		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_sdfrbp_2	min_pulse_width	CLK ()	0.01860	0.00000	0.13748	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:

Cell Name	T4]	Power(pJ)				
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	0.03722	0.32940	0.12960	0.13086	2.50740	0.60000	0.47792
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	0.02936	0.32940	0.06480	0.07590	2.50740	0.30000	0.25347

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	0.03768	0.32940	0.12960	0.13160	2.50740	0.60000	0.47914		
sg13g2_sdfrbp_2	RESET_B	0.01860	0.00100	0.03852	0.32940	0.12960	0.12256	2.50740	0.60000	0.43680		
callad edfrhn 1	CLK	0.01860	0.00100	0.03044	0.32940	0.06480	0.07708	2.50740	0.30000	0.25507		
sg13g2_sdfrbp_1 R	RESET_B	0.01860	0.00100	0.03128	0.32940	0.06480	0.07269	2.50740	0.30000	0.23364		

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

Cell Name	Immust]	Power(pJ)				
Cell Name	Input		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	0.03722	0.32940	0.12960	0.13086	2.50740	0.60000	0.47792
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.02936	0.32940	0.06480	0.07590	2.50740	0.30000	0.25347

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

Cell Name	T	Whom		Power(pJ)									
Cell Name	Input			Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	0.03768	0.32940	0.12960	0.13160	2.50740	0.60000	0.47914		
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.03044	0.32940	0.06480	0.07708	2.50740	0.30000	0.25507		

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	0.03773	0.32940	0.12960	0.13218	2.50740	0.60000	0.47983			
sg13g2_sdfrbp_2	RESET_B	0.01860	0.00100	0.03857	0.32940	0.12960	0.12328	2.50740	0.60000	0.43782			
cal3a2 edfrhn 1	CLK	0.01860	0.00100	0.03046	0.32940	0.06480	0.07737	2.50740	0.30000	0.25523			
sg13g2_sdfrbp_1 I	RESET_B	0.01860	0.00100	0.03129	0.32940	0.06480	0.07304	2.50740	0.30000	0.23429			

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	0.03722	0.32940	0.12960	0.13030	2.50740	0.60000	0.47736
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	0.02937	0.32940	0.06480	0.07561	2.50740	0.30000	0.25313

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

Call Name	Immust	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	0.03773	0.32940	0.12960	0.13218	2.50740	0.60000	0.47983
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.03046	0.32940	0.06480	0.07737	2.50740	0.30000	0.25523

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	0.03722	0.32940	0.12960	0.13030	2.50740	0.60000	0.47736
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	0.02937	0.32940	0.06480	0.07561	2.50740	0.30000	0.25313

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	0.02110	0.32940	0.02090	2.50740	0.02743			
sg13g2_sdfrbp_1	0.01860	0.02102	0.32940	0.02081	2.50740	0.02736			

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	0.02028	0.32940	0.02036	2.50740	0.02785			
sg13g2_sdfrbp_1	0.01860	0.02028	0.32940	0.02036	2.50740	0.02785			

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

Call Name	XX/I	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	(!CLK * RESET_B * !SCE)	0.01860	0.02110	0.32940	0.02090	2.50740	0.02743			
sg13g2_sdfrbp_1	(!CLK * RESET_B * !SCE)	0.01860	0.02102	0.32940	0.02081	2.50740	0.02736			

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

Call Name	XX/h o.e.	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	(!CLK * RESET_B * !SCE)	0.01860	0.02028	0.32940	0.02036	2.50740	0.02785			
sg13g2_sdfrbp_1	(!CLK * RESET_B * !SCE)	0.01860	0.02028	0.32940	0.02036	2.50740	0.02785			

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	0.02126	0.32940	0.02107	2.50740	0.02757			
sg13g2_sdfrbp_1	0.01860	0.02119	0.32940	0.02100	2.50740	0.02749			

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	0.01772	0.32940	0.01779	2.50740	0.02533			
sg13g2_sdfrbp_1	0.01860	0.01772	0.32940	0.01778	2.50740	0.02533			

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	0.02126	0.32940	0.02107	2.50740	0.02757			
sg13g2_sdfrbp_1	(!CLK * RESET_B * SCE)	0.01860	0.02119	0.32940	0.02100	2.50740	0.02749			

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

Call Name	W/h or	Power(pJ)								
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfrbp_2	(!CLK * RESET_B * SCE)	0.01860	0.01772	0.32940	0.01779	2.50740	0.02533			
sg13g2_sdfrbp_1	(!CLK * RESET_B * SCE)	0.01860	0.01772	0.32940	0.01778	2.50740	0.02533			

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	0.02570	0.32940	0.02559	2.50740	0.03640			
sg13g2_sdfrbp_1	0.01860	0.02572	0.32940	0.02561	2.50740	0.03641			

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	0.02472	0.32940	0.04149	2.50740	0.05301	
sg13g2_sdfrbp_1	0.01860	0.02473	0.32940	0.04150	2.50740	0.05302	

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

Call Name	Whor	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
RESI !S	(!CLK * D * RESET_B * !SCD)	0.01860	0.02295	0.32940	0.02292	2.50740	0.02840	
sg13g2_sdfrbp_2	(!CLK * !D * RESET_B * SCD)	0.01860	0.02570	0.32940	0.02559	2.50740	0.03640	
aa12a2 adfuhn 1	(!CLK * D * RESET_B * !SCD)	0.01860	0.02294	0.32940	0.02291	2.50740	0.02840	
sg13g2_sdfrbp_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.02572	0.32940	0.02561	2.50740	0.03641	

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

Call Name	Whom	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(!CLK * D * RESET_B * !SCD)	0.01860	0.02594	0.32940	0.02602	2.50740	0.03163	
sg13g2_sdfrbp_2	2 (!CLK * !D * RESET_B * SCD)	0.01860	0.02472	0.32940	0.04149	2.50740	0.05301	
	(!CLK * D * RESET_B * !SCD)	0.01860	0.02595	0.32940	0.02603	2.50740	0.03165	
sg13g2_sdfrbp_1	(!CLK * !D * RESET_B * SCD)	0.01860	0.02473	0.32940	0.04150	2.50740	0.05302	

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	0.01086	0.32940	0.01073	2.50740	0.01875	
sg13g2_sdfrbp_1	0.01860	0.01086	0.32940	0.01072	2.50740	0.01875	

Passive power(pJ) for CLK falling:

Call Name			Power	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_2	0.01860	0.01084	0.32940	0.01088	2.50740	0.01910
sg13g2_sdfrbp_1	0.01860	0.01084	0.32940	0.01088	2.50740	0.01910

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	0.01112	0.32940	0.01098	2.50740	0.01903
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.01086	0.32940	0.01073	2.50740	0.01875
sg13g2_sdfrbp_2	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.01113	0.32940	0.01098	2.50740	0.01903
	(!RESET_B * !Q * Q_N)	0.01860	0.01045	0.32940	0.01033	2.50740	0.01832
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.01086	0.32940	0.01073	2.50740	0.01875
	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	0.01111	0.32940	0.01097	2.50740	0.01903
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.01086	0.32940	0.01072	2.50740	0.01875
sg13g2_sdfrbp_1	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.01112	0.32940	0.01097	2.50740	0.01903
	(!RESET_B * !Q * Q_N)	0.01860	0.01044	0.32940	0.01032	2.50740	0.01833
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.01085	0.32940	0.01072	2.50740	0.01875

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	0.01065	0.32940	0.01068	2.50740	0.01890
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	0.02080	0.32940	0.02076	2.50740	0.02923
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	0.01893	0.32940	0.01914	2.50740	0.02781
sg13g2_sdfrbp_2	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.01084	0.32940	0.01088	2.50740	0.01910
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.01065	0.32940	0.01068	2.50740	0.01890
	(!RESET_B * !Q * Q_N)	0.01860	0.00965	0.32940	0.00967	2.50740	0.01790
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.01084	0.32940	0.01088	2.50740	0.01910

	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	0.01064	0.32940	0.01068	2.50740	0.01890
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	0.02079	0.32940	0.02077	2.50740	0.02924
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	0.01892	0.32940	0.01913	2.50740	0.02781
sg13g2_sdfrbp_1	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	0.01084	0.32940	0.01088	2.50740	0.01910
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	0.01064	0.32940	0.01068	2.50740	0.01890
	(!RESET_B * !Q * Q_N)	0.01860	0.00963	0.32940	0.00967	2.50740	0.01789
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	0.01084	0.32940	0.01088	2.50740	0.01910

SDFRRS



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00198	0.00198	0.00354	0.00174	0.00525	0.00302	0.30000	0.30000

Leakage Information

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_sdfbbp_1	637.85700	815.79100	928.22400			

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_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	0.30309	0.32940	0.06480	0.57988	2.50740	0.30000	1.45030
	SET_B->Q (FR)	0.01860	0.00100	0.12289	0.32940	0.06480	0.41736	2.50740	0.30000	1.32805

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	0.24961	0.32940	0.06480	0.49450	2.50740	0.30000	1.24897
	RESET_B->Q (FF)	0.01860	0.00100	0.20686	0.32940	0.06480	0.46628	2.50740	0.30000	1.25333

Delay(ns) to Q 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 (RR)	SCE	0.01860	0.00100	0.30309	0.32940	0.06480	0.57988	2.50740	0.30000	1.45030

Delay(ns) to Q falling (conditional):

Call Name	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)	vv nen	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	0.24961	0.32940	0.06480	0.49450	2.50740	0.30000	1.24897

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		
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	0.20494	0.32940	0.06480	0.50350	2.50740	0.30000	1.39341		
	RESET_B->Q_N (FR)	0.01860	0.00100	0.16127	0.32940	0.06480	0.48199	2.50740	0.30000	1.40905		

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	0.25162	0.32940	0.06480	0.53788	2.50740	0.30000	1.28019
	SET_B->Q_N (FF)	0.01860	0.00100	0.08160	0.32940	0.06480	0.36987	2.50740	0.30000	1.18471

Delay(ns) to Q_N rising (conditional):

	Cell Name	Timing	When					Delay(ns)				
	Cen ivame	Arc(Dir)	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
S	g13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	0.20494	0.32940	0.06480	0.50350	2.50740	0.30000	1.39341

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing	When					Delay(ns)				
Cen Name	Arc(Dir)	wnen	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	0.25162	0.32940	0.06480	0.53788	2.50740	0.30000	1.28019

Constraint Information

Constraints(ns) for D rising:

	T::	D.f.				C	onstraint(1	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12-2 -JEhh- 1	hold	CLK (R)	0.01860	0.01860	-0.09536	1.26300	1.26300	-0.26444	2.50740	2.50740	-0.34828
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.12470	1.26300	1.26300	0.28603	2.50740	2.50740	0.37484

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		
12-2 -JEhh- 1	hold	CLK (R)	0.01860	0.01860	-0.10514	1.26300	1.26300	-0.18079	2.50740	2.50740	-0.22432		
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.16627	1.26300	1.26300	0.23206	2.50740	2.50740	0.29515		

Constraints(ns) for SCD rising:

	T:	D.f				Co	Constraint(ns)					
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last	
12-2 -JEhh- 1	hold	CLK (R)	0.01860	0.01860	-0.11981	1.26300	1.26300	-0.32380	2.50740	2.50740	-0.43683	
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.14916	1.26300	1.26300	0.34269	2.50740	2.50740	0.45749	

Constraints(ns) for SCD falling:

Cell Name	Timing	Dof				Co	onstraint(1	ıs)			
	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	-0.13693	1.26300	1.26300	-0.20777	2.50740	2.50740	-0.26269
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.19806	1.26300	1.26300	0.25634	2.50740	2.50740	0.33057

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	-0.09781	1.26300	1.26300	-0.27793	2.50740	2.50740	-0.37484
	setup	CLK (R)	0.01860	0.01860	0.13204	1.26300	1.26300	0.31571	2.50740	2.50740	0.41912

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	-0.10759	1.26300	1.26300	-0.14301	2.50740	2.50740	-0.17709
sg13g2_sdfbbp_1	setup	CLK (R)	0.01860	0.01860	0.16627	1.26300	1.26300	0.19428	2.50740	2.50740	0.25088

Constraints(ns) for RESET_B rising:

	T::	D-f				Co	onstraint(r	ns)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
12-2 -JELL 1	recovery	CLK (R)	0.01860	0.01860	0.06847	1.26300	1.26300	0.13492	2.50740	2.50740	0.16529
sg13g2_sdfbbp_1	removal	CLK (R)	0.01860	0.01860	-0.04401	1.26300	1.26300	-0.10794	2.50740	2.50740	-0.13577

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

		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				Co	onstraint(r	ıs)			
Cell Name	Timing Check	Ref Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
	recovery	CLK (R)	0.01860	0.01860	0.01956	1.26300	1.26300	0.08905	2.50740	2.50740	0.36894
sg13g2_sdfbbp_1	removal	CLK (R)	0.01860	0.01860	0.03912	1.26300	1.26300	0.10524	2.50740	2.50740	0.12397
	hold	RESET_B (R)	0.01860	0.01860	-0.07825	1.26300	1.26300	-0.21047	2.50740	2.50740	-0.27744
	setup	RESET_B (R)	0.01860	0.01860	0.09781	1.26300	1.26300	0.24015	2.50740	2.50740	0.31877

Constraints(ns) for SET_B falling:

		Ref				Co	nstraint(n	ıs)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	min_pulse_width	SET_B ()	0.01860	0.00000	0.09262	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818

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_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				Co	onstraint(n	ıs)			
Cell Name	Timing Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	min_pulse_width	CLK ()	0.01860	0.00000	0.12787	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
ag12g2 adfhhn 1	CLK	0.01860	0.00100	0.01649	0.32940	0.06480	0.01690	2.50740	0.30000	0.02099
sg13g2_sdfbbp_1	SET_B	0.01860	0.00100	0.03108	0.32940	0.06480	0.07720	2.50740	0.30000	0.25669

Internal switching power(pJ) to Q falling:

Cell Name	T					Power(pJ)				
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12.2 [6]	CLK	0.01860	0.00100	0.01626	0.32940	0.06480	0.01638	2.50740	0.30000	0.02047
sg13g2_sdfbbp_1 I	RESET_B	0.01860	0.00100	0.03508	0.32940	0.06480	0.08124	2.50740	0.30000	0.25405

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

	Call Name	Innut	When]	Power(pJ)				
	Cell Name	Name Input W			Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
ſ	sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.01649	0.32940	0.06480	0.01690	2.50740	0.30000	0.02099

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

Call Name	Immut	Input When					Power(pJ)				
Cell Name	Input	when	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.01626	0.32940	0.06480	0.01638	2.50740	0.30000	0.02047

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
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	0.01627	0.32940	0.06480	0.01652	2.50740	0.30000	0.02060
	RESET_B	0.01860	0.00100	0.03509	0.32940	0.06480	0.08155	2.50740	0.30000	0.25477

Internal switching power(pJ) to Q_N falling:

Call Name	T4		Power(pJ)							
Cell Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-2 -debb 1	CLK	0.01860	0.00100	0.01649	0.32940	0.06480	0.01674	2.50740	0.30000	0.02082
sg13g2_sdfbbp_1	SET_B	0.01860	0.00100	0.03111	0.32940	0.06480	0.07680	2.50740	0.30000	0.25625

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

Cell Name	Innut	When		Power(pJ) Slew(ns) Load(pf) First Slew(ns) Load(pf) Mid Slew(ns) Load(pf) I						Power(pJ)					
Cen Name	Input	when								Load(pf)	Last				
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.01627	0.32940	0.06480	0.01652	2.50740	0.30000	0.02060				

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

Call Name	Immust	Whom]	Power(pJ)				
Cell Name	Input	When		Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	0.01649	0.32940	0.06480	0.01674	2.50740	0.30000	0.02082

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	0.01122	0.32940	0.01107	2.50740	0.01429		

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	0.01140	0.32940	0.01128	2.50740	0.01466		

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

Call Name	XX/h orn	Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(!CLK * RESET_B * !SCE * SET_B)	0.01860	0.01122	0.32940	0.01107	2.50740	0.01429		
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	0.00488	0.32940	0.00473	2.50740	0.00769		

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

Call Name	W/hon	Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(!CLK * RESET_B * !SCE * SET_B)	0.01860	0.01140	0.32940	0.01128	2.50740	0.01466		
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	0.00475	0.32940	0.00461	2.50740	0.00764		

Passive power(pJ) for SCD rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.01268	0.32940	0.01258	2.50740	0.01501			

Passive power(pJ) for SCD falling:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.01548	0.32940	0.01528	2.50740	0.01781			

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

Call Name	When	Power(pJ)							
Cell Name	when	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(!CLK * RESET_B * SCE * SET_B)	0.01860	0.01268	0.32940	0.01258	2.50740	0.01501		
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * !SET_B)	0.01860	0.00638	0.32940	0.00625	2.50740	0.00832		

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

Call Name	XX/h o-n	Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
	(!CLK * RESET_B * SCE * SET_B)	0.01860	0.01548	0.32940	0.01528	2.50740	0.01781		
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * !SET_B)	0.01860	0.00728	0.32940	0.00721	2.50740	0.00936		

Passive power(pJ) for SCE rising:

Call Name	Power(pJ)								
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last			
sg13g2_sdfbbp_1	0.01860	0.01320	0.32940	0.01328	2.50740	0.02079			

Passive power(pJ) for SCE falling:

Call Name	Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns)	v(ns) Mid Slew(ns) Last				
sg13g2_sdfbbp_1	0.01860	0.01479	0.32940	0.01491	2.50740	0.01891		

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

Call Name	When	Power(pJ)						
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last	
	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	0.01451	0.32940	0.01458	2.50740	0.01863	
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	0.01951	0.32940	0.01905	2.50740	0.02313	
sg13g2_sdfbbp_1	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	0.01320	0.32940	0.01328	2.50740	0.02079	
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	0.00675	0.32940	0.00679	2.50740	0.01396	

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

Call Name	When	Power(pJ)							
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	0.01479	0.32940	0.01491	2.50740	0.01891		
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	0.01876	0.32940	0.02417	2.50740	0.02833		
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	0.00745	0.32940	0.02514	2.50740	0.03322		
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	0.00703	0.32940	0.00708	2.50740	0.01380		

Passive power(pJ) for CLK rising :

Call Name		Power(pJ)							
Cell Name	Slew(ns)	First	First Slew(ns) Mid Slew(ns) L						
sg13g2_sdfbbp_1	0.01860	0.01195	0.32940	0.01175	2.50740	0.01970			

Passive power(pJ) for CLK falling:

Call Name		Power(pJ)							
Cell Name	Slew(ns)	First	Slew(ns) Mid Slew(ns) Last						
sg13g2_sdfbbp_1	0.01860	0.01489	0.32940	0.01508	2.50740	0.02354			

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

Call Massa	X YI			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	0.01187	0.32940	0.01173	2.50740	0.01960
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	0.01576	0.32940	0.01562	2.50740	0.02348
sg13g2_sdfbbp_1	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	0.01195	0.32940	0.01175	2.50740	0.01970
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	0.01099	0.32940	0.01085	2.50740	0.01872
	(!RESET_B * !Q * Q_N)	0.01860	0.01144	0.32940	0.01127	2.50740	0.01920
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	0.01194	0.32940	0.01174	2.50740	0.01970

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	0.01129	0.32940	0.01132	2.50740	0.01944
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	0.01988	0.32940	0.01983	2.50740	0.02801
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	0.01489	0.32940	0.01508	2.50740	0.02354
sg13g2_sdfbbp_1	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	0.02165	0.32940	0.02184	2.50740	0.03036
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	0.01124	0.32940	0.01135	2.50740	0.01941
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	0.01115	0.32940	0.01117	2.50740	0.01929
	(!RESET_B * !Q * Q_N)	0.01860	0.01030	0.32940	0.01039	2.50740	0.01845
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	0.01151	0.32940	0.01160	2.50740	0.01966

SGCLK



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

Truth Table

	NPUT		OUTPUT
GATE	SCE	CLK	GCLK
X	x	0	0
X	x	1	GCLK

Footprint

Cell Name	Area		
sg13g2_slgcp_1	30.84480		

Pin Capacitance Information

Cell Name		Pin Cap(pf)	Max Cap(pf)		
Cen Name	GATE	ATE SCE CLK	GCLK		
sg13g2_slgcp_1	0.00193	0.00233	0.00498	0.30000	

Call Name	Leakage(pW)					
Cell Name	Min.	Avg	Max.			
sg13g2_slgcp_1	355.43900	415.61800	460.31000			

Delay Information Delay(ns) to GCLK rising:

Cell Name Timing Arc(Dir)		Delay(ns)								
	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	0.07573	0.32940	0.06480	0.34724	2.50740	0.30000	1.21453

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	0.06113	0.32940	0.06480	0.30923	2.50740	0.30000	1.04620	

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		
221322 class 1	hold	CLK (R)	0.01860	0.01860	-0.04138	1.26300	1.26300	-0.19121	2.50740	2.50740	-0.26034		
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.06423	1.26300	1.26300	0.26165	2.50740	2.50740	0.35982		

Constraints(ns) for GATE falling:

	T::	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		
221222 alaan 1	hold	CLK (R)	0.01860	0.01860	-0.06774	1.26300	1.26300	-0.17225	2.50740	2.50740	-0.23813		
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.11758	1.26300	1.26300	0.21969	2.50740	2.50740	0.29447		

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	-0.04379	1.26300	1.26300	-0.21888	2.50740	2.50740	-0.29952
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.06794	1.26300	1.26300	0.28681	2.50740	2.50740	0.39723

Constraints(ns) for SCE falling:

	Timing Ref					Co	onstraint(r	ns)	Constraint(ns)									
Cell Name	Check	Pin(trans)	Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last							
201202 algan 1	hold	CLK (R)	0.01860	0.01860	-0.07419	1.26300	1.26300	-0.15327	2.50740	2.50740	-0.20770							
sg13g2_slgcp_1	setup	CLK (R)	0.01860	0.01860	0.12615	1.26300	1.26300	0.19597	2.50740	2.50740	0.26232							

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	0.23041	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	0.10223	1.26300	0.00000	2.08496	2.50740	0.00000	4.13818			

Power Information

Internal switching power(pJ) to GCLK 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_slgcp_1	CLK	0.01860	0.00100	0.00876	0.32940	0.06480	0.00872	2.50740	0.30000	0.01319	

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	0.00558	0.32940	0.06480	0.00607	2.50740	0.30000	0.01168	

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	0.01873	0.32940	0.01933	2.50740	0.02439				

Passive power(pJ) for GATE falling:

Call Name			Power	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	0.01589	0.32940	0.03019	2.50740	0.03571

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

Call Name	Whon	Power(pJ)							
Cell Name	wnen	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last		
sg13g2_slgcp_1	!CLK	0.01860	0.01873	0.32940	0.01933	2.50740	0.02439		

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

Call Name	Whon			Power	r(pJ)		
Cell Name	When	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	!CLK	0.01860	0.01589	0.32940	0.03019	2.50740	0.03571

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	0.01088	0.32940	0.01084	2.50740	0.01582

Passive power(pJ) for SCE falling:

Call Name			Power	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	0.01615	0.32940	0.02949	2.50740	0.03384

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	0.00761	0.32940	0.00765	2.50740	0.01463

Passive power(pJ) for CLK falling:

Call Name			Power	r(pJ)		
Cell Name	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	0.00752	0.32940	0.00759	2.50740	0.01486

TIE0



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	57.84800	57.84800	57.84800		





sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	58.06610	58.06610	58.06610	

XNOR2_1



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00562	0.00509	0.30000

Call Name	Leakage(pW)							
Cell Name	Min.	Avg	Max.					
sg13g2_xnor2_1	120.28000	194.76700	225.81200					

Delay Information Delay(ns) to Y rising:

Call Name	Timing	8								
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12-2 2 1	A->Y (-R)	0.01860	0.00100	0.05440	0.32940	0.06480	0.54428	2.50740	0.30000	2.70026
sg13g2_xnor2_1	B->Y (-R)	0.01860	0.00100	0.04714	0.32940	0.06480	0.56315	2.50740	0.30000	2.91259

Delay(ns) to Y falling:

Cell Name	Timing									
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
12.2 2.1	A->Y (-F)	0.01860	0.00100	0.04844	0.32940	0.06480	0.45548	2.50740	0.30000	2.34417
sg13g2_xnor2_1	B->Y (-F)	0.01860	0.00100	0.04172	0.32940	0.06480	0.44697	2.50740	0.30000	2.33010

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	0.07292	0.32940	0.06480	0.34339	2.50740	0.30000	1.21422
221222 mar 1	A->Y (FR)	!B	0.01860	0.00100	0.05440	0.32940	0.06480	0.54428	2.50740	0.30000	2.70026
sg13g2_xnor2_1	B->Y (RR)	A	0.01860	0.00100	0.06807	0.32940	0.06480	0.33782	2.50740	0.30000	1.20327
	B->Y (FR)	!A	0.01860	0.00100	0.04714	0.32940	0.06480	0.56315	2.50740	0.30000	2.91259

Delay(ns) to Y falling (conditional):

Call Name	Timing	When					Delay(ns)				
Cell Name	Arc(Dir)		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A->Y (FF)	В	0.01860	0.00100	0.07119	0.32940	0.06480	0.43271	2.50740	0.30000	1.59615
	A->Y (RF)	!B	0.01860	0.00100	0.04844	0.32940	0.06480	0.45548	2.50740	0.30000	2.34417
sg13g2_xnor2_1	B->Y (FF)	A	0.01860	0.00100	0.07194	0.32940	0.06480	0.42183	2.50740	0.30000	1.57210
	B->Y (RF)	!A	0.01860	0.00100	0.04172	0.32940	0.06480	0.44697	2.50740	0.30000	2.33010

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	0.00781	0.32940	0.06480	0.00777	2.50740	0.30000	0.01265
sg13g2_xnor2_1	В	0.01860	0.00100	0.00795	0.32940	0.06480	0.00780	2.50740	0.30000	0.01370

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 22221	A	0.01860	0.00100	0.00705	0.32940	0.06480	0.00744	2.50740	0.30000	0.01292
sg13g2_xnor2_1	В	0.01860	0.00100	0.00749	0.32940	0.06480	0.00664	2.50740	0.30000	0.01231

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

Call Name	T4	Power(pJ)									
Cell Name	Input	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
	A	В	0.01860	0.00100	0.00781	0.32940	0.06480	0.00777	2.50740	0.30000	0.01265
12.2	A	!B	0.01860	0.00100	0.00496	0.32940	0.06480	0.00470	2.50740	0.30000	0.00533
sg13g2_xnor2_1	В	A	0.01860	0.00100	0.00795	0.32940	0.06480	0.00780	2.50740	0.30000	0.01370
	В	!A	0.01860	0.00100	0.00329	0.32940	0.06480	0.00324	2.50740	0.30000	0.00414

Internal switching power(pJ) to Y falling (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	0.00705	0.32940	0.06480	0.00744	2.50740	0.30000	0.01292
12-2 1	A	!B	0.01860	0.00100	0.00494	0.32940	0.06480	0.00474	2.50740	0.30000	0.00522
sg13g2_xnor2_1	В	A	0.01860	0.00100	0.00749	0.32940	0.06480	0.00664	2.50740	0.30000	0.01231
	В	!A	0.01860	0.00100	0.00405	0.32940	0.06480	0.00411	2.50740	0.30000	0.00461

XOR2_1



sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, Temp 25.00

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	0.00575	0.00514	0.30000

Call Name		Leakage(pW)	
Cell Name	Min.	Avg	Max.
sg13g2_xor2_1	174.79400	184.81700	194.60600

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			
221323 2223 1	A->X (-R)	0.01860	0.00100	0.05873	0.32940	0.06480	0.55039	2.50740	0.30000	2.71033			
sg13g2_xor2_1	B->X (-R)	0.01860	0.00100	0.05038	0.32940	0.06480	0.54091	2.50740	0.30000	2.69711			

Delay(ns) to X falling:

Call Name	Timing	Delay(ns)										
Cell Name	Arc(Dir)	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last		
221222 2222 1	A->X (-F)	0.01860	0.00100	0.04425	0.32940	0.06480	0.45060	2.50740	0.30000	2.33339		
sg13g2_xor2_1	B->X (-F)	0.01860	0.00100	0.03904	0.32940	0.06480	0.46730	2.50740	0.30000	2.48411		

Delay(ns) to X rising (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
sg13g2_xor2_1	A->X (RR)	!B	0.01860	0.00100	0.07184	0.32940	0.06480	0.54144	2.50740	0.30000	2.13028
	A->X (FR)	В	0.01860	0.00100	0.05873	0.32940	0.06480	0.55039	2.50740	0.30000	2.71033
	B->X (RR)	!A	0.01860	0.00100	0.07486	0.32940	0.06480	0.52807	2.50740	0.30000	2.08997
	B->X (FR)	A	0.01860	0.00100	0.05038	0.32940	0.06480	0.54091	2.50740	0.30000	2.69711

Delay(ns) to X 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		
	A->X (FF)	!B	0.01860	0.00100	0.08766	0.32940	0.06480	0.32597	2.50740	0.30000	1.03849		
	A->X (RF)	В	0.01860	0.00100	0.04425	0.32940	0.06480	0.45060	2.50740	0.30000	2.33339		
sg13g2_xor2_1	B->X (FF)	!A	0.01860	0.00100	0.08096	0.32940	0.06480	0.32438	2.50740	0.30000	1.04564		
	B->X (RF)	A	0.01860	0.00100	0.03904	0.32940	0.06480	0.46730	2.50740	0.30000	2.48411		

Power Information

Internal switching power(pJ) to X rising:

Cell Name	Innut		Power(pJ)											
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
aa12a2 waw2 1	A	0.01860	0.00100	0.00692	0.32940	0.06480	0.00725	2.50740	0.30000	0.01195				
sg13g2_xor2_1	В	0.01860	0.00100	0.00742	0.32940	0.06480	0.00655	2.50740	0.30000	0.01165				

Internal switching power(pJ) to X falling:

Cell Name	Innut		Power(pJ)											
Cen Name	Input	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last				
12.2 2.1	A	0.01860	0.00100	0.00845	0.32940	0.06480	0.00861	2.50740	0.30000	0.01341				
sg13g2_xor2_1	В	0.01860	0.00100	0.00777	0.32940	0.06480	0.00783	2.50740	0.30000	0.01367				

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	
	A	В	0.01860	0.00100	0.00523	0.32940	0.06480	0.00506	2.50740	0.30000	0.00556	
	A	!B	0.01860	0.00100	0.00692	0.32940	0.06480	0.00725	2.50740	0.30000	0.01195	
sg13g2_xor2_1	В	A	0.01860	0.00100	0.00416	0.32940	0.06480	0.00412	2.50740	0.30000	0.00461	
	В	!A	0.01860	0.00100	0.00742	0.32940	0.06480	0.00655	2.50740	0.30000	0.01165	

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

C-II N	T4	When	Power(pJ)									
Cell Name	Input	wnen	Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last	
	A	В	0.01860	0.00100	0.00490	0.32940	0.06480	0.00455	2.50740	0.30000	0.00507	
12-22 1	A	!B	0.01860	0.00100	0.00845	0.32940	0.06480	0.00861	2.50740	0.30000	0.01341	
sg13g2_xor2_1	В	A	0.01860	0.00100	0.00397	0.32940	0.06480	0.00387	2.50740	0.30000	0.00454	
	В	!A	0.01860	0.00100	0.00777	0.32940	0.06480	0.00783	2.50740	0.30000	0.01367	