sg13g2_stdcell_slow_1p35V_125C Library

Cell Groups
AND2
AND3
AND4
AO21
BTLx
BUx
DECAPx
DFFRRx
DLHQ
DLHRQ
DLHR
DLLRQ
DLLR
DLY1
DLY2
DLY4
EINVINx
FILLx
INx
ITL
KEEPSTATE
MUX2
MUX4

NAND2B1
NAND2
NAND3B1
NOR2
NOR3
NOR4
NP_ANT
OR2
OR3
OR4
SDFRRS
TIE0
TIE1
XNOR2_1
XOR2_1

AND2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and2_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_1	0.00235	0.00228	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	823.86600	1010.78000	1352.79000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.06356**	0.32940	0.06480	**0.33581**	2.50740	0.30000	**1.21565**
	B->X (RR)	0.01860	0.00100	**0.06894**	0.32940	0.06480	**0.33690**	2.50740	0.30000	**1.21156**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.05492**	0.32940	0.06480	**0.30579**	2.50740	0.30000	**1.08927**
	B->X (FF)	0.01860	0.00100	**0.06033**	0.32940	0.06480	**0.32123**	2.50740	0.30000	**1.12961**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A	0.01860	0.00100	**0.00791**	0.32940	0.06480	**0.00891**	2.50740	0.30000	**0.02204**
	B	0.01860	0.00100	**0.00959**	0.32940	0.06480	**0.01016**	2.50740	0.30000	**0.02244**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A	0.01860	0.00100	**0.00695**	0.32940	0.06480	**0.00795**	2.50740	0.30000	**0.02090**
	B	0.01860	0.00100	**0.00726**	0.32940	0.06480	**0.00833**	2.50740	0.30000	**0.02145**

AND3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and3_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_1	0.00235	0.00225	0.00227	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	822.26300	1009.25000	1926.14000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.08526**	0.32940	0.06480	**0.37166**	2.50740	0.30000	**1.29997**
	B->X (RR)	0.01860	0.00100	**0.09493**	0.32940	0.06480	**0.37529**	2.50740	0.30000	**1.30179**
	C->X (RR)	0.01860	0.00100	**0.09947**	0.32940	0.06480	**0.37122**	2.50740	0.30000	**1.26829**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.05884**	0.32940	0.06480	**0.31513**	2.50740	0.30000	**1.09205**
	B->X (FF)	0.01860	0.00100	**0.06454**	0.32940	0.06480	**0.32902**	2.50740	0.30000	**1.13079**
	C->X (FF)	0.01860	0.00100	**0.06822**	0.32940	0.06480	**0.33994**	2.50740	0.30000	**1.16442**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A	0.01860	0.00100	**0.00916**	0.32940	0.06480	**0.00986**	2.50740	0.30000	**0.02248**
	B	0.01860	0.00100	**0.01080**	0.32940	0.06480	**0.01097**	2.50740	0.30000	**0.02279**
	C	0.01860	0.00100	**0.01241**	0.32940	0.06480	**0.01244**	2.50740	0.30000	**0.02366**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A	0.01860	0.00100	**0.00703**	0.32940	0.06480	**0.00790**	2.50740	0.30000	**0.01987**
	B	0.01860	0.00100	**0.00745**	0.32940	0.06480	**0.00815**	2.50740	0.30000	**0.02058**
	C	0.01860	0.00100	**0.00768**	0.32940	0.06480	**0.00839**	2.50740	0.30000	**0.02060**

AND4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_1	0.00200	0.00194	0.00225	0.00227	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	824.35200	969.92000	2499.70000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.10832**	0.32940	0.06480	**0.40706**	2.50740	0.30000	**1.37741**
	B->X (RR)	0.01860	0.00100	**0.12163**	0.32940	0.06480	**0.41411**	2.50740	0.30000	**1.38557**
	C->X (RR)	0.01860	0.00100	**0.12943**	0.32940	0.06480	**0.41318**	2.50740	0.30000	**1.35745**
	D->X (RR)	0.01860	0.00100	**0.13400**	0.32940	0.06480	**0.41166**	2.50740	0.30000	**1.31776**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.06241**	0.32940	0.06480	**0.32158**	2.50740	0.30000	**1.09059**
	B->X (FF)	0.01860	0.00100	**0.06799**	0.32940	0.06480	**0.33398**	2.50740	0.30000	**1.12399**
	C->X (FF)	0.01860	0.00100	**0.07198**	0.32940	0.06480	**0.34444**	2.50740	0.30000	**1.15951**
	D->X (FF)	0.01860	0.00100	**0.07479**	0.32940	0.06480	**0.35423**	2.50740	0.30000	**1.19118**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A	0.01860	0.00100	**0.01050**	0.32940	0.06480	**0.01093**	2.50740	0.30000	**0.02351**
	B	0.01860	0.00100	**0.01257**	0.32940	0.06480	**0.01262**	2.50740	0.30000	**0.02384**
	C	0.01860	0.00100	**0.01342**	0.32940	0.06480	**0.01329**	2.50740	0.30000	**0.02411**
	D	0.01860	0.00100	**0.01341**	0.32940	0.06480	**0.01324**	2.50740	0.30000	**0.02432**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A	0.01860	0.00100	**0.00637**	0.32940	0.06480	**0.00708**	2.50740	0.30000	**0.01896**
	B	0.01860	0.00100	**0.00671**	0.32940	0.06480	**0.00722**	2.50740	0.30000	**0.01868**
	C	0.01860	0.00100	**0.00797**	0.32940	0.06480	**0.00848**	2.50740	0.30000	**0.02046**
	D	0.01860	0.00100	**0.00821**	0.32940	0.06480	**0.00887**	2.50740	0.30000	**0.02152**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00041**	0.32940	**-0.00041**	2.50740	**-0.00040**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00125**	0.32940	**0.00128**	2.50740	**0.00128**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**-0.00041**	0.32940	**-0.00041**	2.50740	**-0.00040**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**0.00125**	0.32940	**0.00128**	2.50740	**0.00128**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00071**	0.32940	**-0.00072**	2.50740	**-0.00072**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00110**	0.32940	**0.00112**	2.50740	**0.00113**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**-0.00071**	0.32940	**-0.00072**	2.50740	**-0.00072**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**0.00110**	0.32940	**0.00112**	2.50740	**0.00113**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00004**	0.32940	**0.00006**	2.50740	**0.00005**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00003**	0.32940	**0.00002**	2.50740	**0.00003**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00004**	0.32940	**0.00006**	2.50740	**0.00005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00003**	0.32940	**0.00002**	2.50740	**0.00003**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00164**	0.32940	**0.00167**	2.50740	**0.00165**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00006**	0.32940	**0.00001**	2.50740	**0.00001**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00164**	0.32940	**0.00167**	2.50740	**0.00165**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00006**	0.32940	**0.00001**	2.50740	**0.00001**

AO21

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21o_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_1	0.00244	0.00254	0.00225	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	661.76800	1032.41000	1627.97000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.07901**	0.32940	0.06480	**0.36648**	2.50740	0.30000	**1.29152**
	A2->X (RR)	0.01860	0.00100	**0.08371**	0.32940	0.06480	**0.36260**	2.50740	0.30000	**1.27470**
	B1->X (RR)	0.01860	0.00100	**0.05197**	0.32940	0.06480	**0.32527**	2.50740	0.30000	**1.18123**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.08932**	0.32940	0.06480	**0.34042**	2.50740	0.30000	**1.13213**
	A2->X (FF)	0.01860	0.00100	**0.09831**	0.32940	0.06480	**0.35568**	2.50740	0.30000	**1.16507**
	B1->X (FF)	0.01860	0.00100	**0.08747**	0.32940	0.06480	**0.35741**	2.50740	0.30000	**1.21105**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.05197**	0.32940	0.06480	**0.32527**	2.50740	0.30000	**1.18123**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.04871**	0.32940	0.06480	**0.31153**	2.50740	0.30000	**1.14400**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.08747**	0.32940	0.06480	**0.35741**	2.50740	0.30000	**1.21105**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.07693**	0.32940	0.06480	**0.33856**	2.50740	0.30000	**1.17471**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00918**	0.32940	0.06480	**0.00973**	2.50740	0.30000	**0.02326**
	A2	0.01860	0.00100	**0.01087**	0.32940	0.06480	**0.01107**	2.50740	0.30000	**0.02346**
	B1	0.01860	0.00100	**0.00713**	0.32940	0.06480	**0.00793**	2.50740	0.30000	**0.02270**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00994**	0.32940	0.06480	**0.01017**	2.50740	0.30000	**0.02293**
	A2	0.01860	0.00100	**0.01004**	0.32940	0.06480	**0.01029**	2.50740	0.30000	**0.02231**
	B1	0.01860	0.00100	**0.00685**	0.32940	0.06480	**0.00794**	2.50740	0.30000	**0.02218**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00886**	0.32940	0.06480	**0.00985**	2.50740	0.30000	**0.02451**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00713**	0.32940	0.06480	**0.00793**	2.50740	0.30000	**0.02270**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00710**	0.32940	0.06480	**0.00802**	2.50740	0.30000	**0.02183**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00685**	0.32940	0.06480	**0.00794**	2.50740	0.30000	**0.02218**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**-0.00023**	0.32940	**-0.00019**	2.50740	**-0.00019**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00031**	0.32940	**0.00030**	2.50740	**0.00030**

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**0.00013**	0.32940	**-0.00006**	2.50740	**-0.00012**
	(!A2 * B1)	0.01860	**-0.00023**	0.32940	**-0.00019**	2.50740	**-0.00019**

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**0.00032**	0.32940	**0.00031**	2.50740	**0.00031**
	(!A2 * B1)	0.01860	**0.00031**	0.32940	**0.00030**	2.50740	**0.00030**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**-0.00012**	0.32940	**-0.00013**	2.50740	**-0.00013**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00023**	0.32940	**0.00023**	2.50740	**0.00024**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00021**	0.32940	**0.00001**	2.50740	**-0.00005**
	(!A1 * B1)	0.01860	**-0.00012**	0.32940	**-0.00013**	2.50740	**-0.00013**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00026**	0.32940	**0.00025**	2.50740	**0.00025**
	(!A1 * B1)	0.01860	**0.00023**	0.32940	**0.00023**	2.50740	**0.00024**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00035**	0.32940	**0.00038**	2.50740	**0.00039**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00095**	0.32940	**0.00095**	2.50740	**0.00097**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00035**	0.32940	**0.00038**	2.50740	**0.00039**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00095**	0.32940	**0.00095**	2.50740	**0.00097**

BTLx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_ebufn_8	45.36000
sg13g2_ebufn_4	25.40160
sg13g2_ebufn_2	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_8	0.00554	0.01498	2.40000
sg13g2_ebufn_4	0.00288	0.00912	1.20000
sg13g2_ebufn_2	0.00245	0.00558	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	2462.42000	3998.33000	7045.57000
sg13g2_ebufn_4	1611.87000	2240.96000	3625.89000
sg13g2_ebufn_2	1171.82000	1486.28000	1947.78000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.01958	**0.06534**	0.32940	0.53698	**0.57400**	2.50740	2.41858	**2.22069**
	TE_B->Z (RR)	0.01860	0.01958	**0.07063**	0.32940	0.53698	**0.16398**	2.50740	2.41858	**0.34997**
	TE_B->Z (FR)	0.01860	0.01958	**0.03490**	0.32940	0.53698	**0.52436**	2.50740	2.41858	**2.60019**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01045	**0.06723**	0.32940	0.26865	**0.57380**	2.50740	1.20945	**2.21672**
	TE_B->Z (RR)	0.01860	0.01045	**0.05420**	0.32940	0.26865	**0.12457**	2.50740	1.20945	**0.25433**
	TE_B->Z (FR)	0.01860	0.01045	**0.03512**	0.32940	0.26865	**0.52192**	2.50740	1.20945	**2.59054**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00583	**0.05806**	0.32940	0.13443	**0.54001**	2.50740	0.60483	**2.14378**
	TE_B->Z (RR)	0.01860	0.00583	**0.04655**	0.32940	0.13443	**0.10410**	2.50740	0.60483	**0.20586**
	TE_B->Z (FR)	0.01860	0.00583	**0.03553**	0.32940	0.13443	**0.52142**	2.50740	0.60483	**2.58935**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02958	**0.08499**	0.32940	0.54698	**0.48610**	2.50740	2.42858	**1.75969**
	TE_B->Z (RF)	0.01860	0.02958	**0.03982**	0.32940	0.54698	**-0.18771**	2.50740	2.42858	**-1.87429**
	TE_B->Z (FF)	0.01860	0.02958	**0.08510**	0.32940	0.54698	**0.48807**	2.50740	2.42858	**1.75090**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01555	**0.08737**	0.32940	0.27375	**0.48870**	2.50740	1.21455	**1.76423**
	TE_B->Z (RF)	0.01860	0.01555	**0.03079**	0.32940	0.27375	**-0.18694**	2.50740	1.21455	**-1.87332**
	TE_B->Z (FF)	0.01860	0.01555	**0.06416**	0.32940	0.27375	**0.43695**	2.50740	1.21455	**1.62428**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00846	**0.06589**	0.32940	0.13706	**0.44211**	2.50740	0.60746	**1.65775**
	TE_B->Z (RF)	0.01860	0.00846	**0.02140**	0.32940	0.13706	**-0.20424**	2.50740	0.60746	**-1.89044**
	TE_B->Z (FF)	0.01860	0.00846	**0.05474**	0.32940	0.13706	**0.40246**	2.50740	0.60746	**1.54255**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.01958	**0.02540**	0.32940	0.53698	**0.03472**	2.50740	2.41858	**0.03267**
	TE_B	0.01860	0.01958	**0.01195**	0.32940	0.53698	**0.00974**	2.50740	2.41858	**0.00543**
sg13g2_ebufn_4	A	0.01860	0.01045	**0.01290**	0.32940	0.26865	**0.01718**	2.50740	1.20945	**0.01294**
	TE_B	0.01860	0.01045	**0.00590**	0.32940	0.26865	**0.00474**	2.50740	1.20945	**0.00142**
sg13g2_ebufn_2	A	0.01860	0.00583	**0.00674**	0.32940	0.13443	**0.00849**	2.50740	0.60483	**0.00702**
	TE_B	0.01860	0.00583	**0.00289**	0.32940	0.13443	**0.00244**	2.50740	0.60483	**0.00073**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.02958	**0.04261**	0.32940	0.54698	**0.04218**	2.50740	2.42858	**0.02692**
	TE_B	0.01860	0.02958	**0.00897**	0.32940	0.54698	**0.00648**	2.50740	2.42858	**-0.00000**
sg13g2_ebufn_4	A	0.01860	0.01555	**0.02138**	0.32940	0.27375	**0.02107**	2.50740	1.21455	**0.01486**
	TE_B	0.01860	0.01555	**0.00444**	0.32940	0.27375	**0.00344**	2.50740	1.21455	**-0.00038**
sg13g2_ebufn_2	A	0.01860	0.00846	**0.01034**	0.32940	0.13706	**0.01032**	2.50740	0.60746	**0.00783**
	TE_B	0.01860	0.00846	**0.00218**	0.32940	0.13706	**0.00183**	2.50740	0.60746	**0.00140**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.02701**	0.32940	**0.02913**	2.50740	**0.06786**
sg13g2_ebufn_4	0.01860	**0.01392**	0.32940	**0.01495**	2.50740	**0.03416**
sg13g2_ebufn_2	0.01860	**0.00766**	0.32940	**0.00881**	2.50740	**0.02589**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01148**	0.32940	**0.01421**	2.50740	**0.05234**
sg13g2_ebufn_4	0.01860	**0.00607**	0.32940	**0.00739**	2.50740	**0.02632**
sg13g2_ebufn_2	0.01860	**0.00395**	0.32940	**0.00528**	2.50740	**0.02214**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**-0.00487**	0.32940	**-0.00566**	2.50740	**0.01121**
sg13g2_ebufn_4	0.01860	**-0.00103**	0.32940	**-0.00088**	2.50740	**0.01776**
sg13g2_ebufn_2	0.01860	**0.00025**	0.32940	**0.00089**	2.50740	**0.01773**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.05812**	0.32940	**0.05989**	2.50740	**0.07745**
sg13g2_ebufn_4	0.01860	**0.03016**	0.32940	**0.03189**	2.50740	**0.05083**
sg13g2_ebufn_2	0.01860	**0.01595**	0.32940	**0.01742**	2.50740	**0.03434**

BUx

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_16	0.01660	4.80000
sg13g2_buf_8	0.00829	2.40000
sg13g2_buf_4	0.00352	1.20000
sg13g2_buf_2	0.00244	0.60000
sg13g2_buf_1	0.00210	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	7855.68000	10631.10000	13406.50000
sg13g2_buf_8	3927.86000	5315.64000	6703.42000
sg13g2_buf_4	1952.91000	2605.01000	3257.12000
sg13g2_buf_2	1090.12000	1391.01000	1691.89000
sg13g2_buf_1	775.59600	837.73500	899.87400

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.05596**	0.32940	1.03680	**0.34813**	2.50740	4.80000	**1.25268**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.05523**	0.32940	0.51840	**0.34647**	2.50740	2.40000	**1.24966**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.07090**	0.32940	0.25920	**0.38091**	2.50740	1.20000	**1.38095**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.05500**	0.32940	0.12960	**0.34125**	2.50740	0.60000	**1.24392**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.04891**	0.32940	0.06480	**0.31676**	2.50740	0.30000	**1.18838**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.06195**	0.32940	1.03680	**0.33847**	2.50740	4.80000	**1.16593**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.06110**	0.32940	0.51840	**0.33759**	2.50740	2.40000	**1.16650**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.05989**	0.32940	0.25920	**0.33216**	2.50740	1.20000	**1.10350**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.05876**	0.32940	0.12960	**0.32619**	2.50740	0.60000	**1.12637**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.05187**	0.32940	0.06480	**0.29887**	2.50740	0.30000	**1.07019**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.09423**	0.32940	1.03680	**0.10490**	2.50740	4.80000	**0.20851**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04566**	0.32940	0.51840	**0.05069**	2.50740	2.40000	**0.10078**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02240**	0.32940	0.25920	**0.02377**	2.50740	1.20000	**0.05276**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01186**	0.32940	0.12960	**0.01319**	2.50740	0.60000	**0.02909**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00691**	0.32940	0.06480	**0.00786**	2.50740	0.30000	**0.02089**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.09035**	0.32940	1.03680	**0.10006**	2.50740	4.80000	**0.20395**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04464**	0.32940	0.51840	**0.04940**	2.50740	2.40000	**0.10230**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02231**	0.32940	0.25920	**0.02441**	2.50740	1.20000	**0.04220**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01161**	0.32940	0.12960	**0.01325**	2.50740	0.60000	**0.02749**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00704**	0.32940	0.06480	**0.00819**	2.50740	0.30000	**0.02142**

DECAPx

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

Footprint

Cell Name	Area
sg13g2_decap_4	7.25760
sg13g2_decap_8	12.70080

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_decap_4	425.41100	425.41100	425.41100
sg13g2_decap_8	850.81400	850.81400	850.81400

DFFRRx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_2	54.43200
sg13g2_dfrbp_1	47.17440

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	CLK	Q	Q_N
sg13g2_dfrbp_2	0.00133	0.00480	0.00270	0.60000	0.60000
sg13g2_dfrbp_1	0.00139	0.00533	0.00253	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	4377.30000	5083.70000	5903.84000
sg13g2_dfrbp_1	3291.09000	3958.98000	4709.15000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.23079**	0.32940	0.12960	**0.49691**	2.50740	0.60000	**1.38407**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.18107**	0.32940	0.06480	**0.44971**	2.50740	0.30000	**1.30963**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.19969**	0.32940	0.12960	**0.44921**	2.50740	0.60000	**1.20990**
	RESET_B->Q (FF)	0.01860	0.00100	**0.27183**	0.32940	0.12960	**0.56093**	2.50740	0.60000	**1.50508**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.17178**	0.32940	0.06480	**0.41868**	2.50740	0.30000	**1.15779**
	RESET_B->Q (FF)	0.01860	0.00100	**0.23560**	0.32940	0.06480	**0.52057**	2.50740	0.30000	**1.44935**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.13272**	0.32940	0.12960	**0.43743**	2.50740	0.60000	**1.29002**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.20614**	0.32940	0.12960	**0.54736**	2.50740	0.60000	**1.58366**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.13120**	0.32940	0.06480	**0.42285**	2.50740	0.30000	**1.25525**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.19543**	0.32940	0.06480	**0.52371**	2.50740	0.30000	**1.54741**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.14828**	0.32940	0.12960	**0.46027**	2.50740	0.60000	**1.25612**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.13522**	0.32940	0.06480	**0.42211**	2.50740	0.30000	**1.19483**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.17809**	2.50740	2.50740	**-0.23317**
	setup	**CLK (R)**	0.01860	0.01860	**0.11737**	1.26300	1.26300	**0.24825**	2.50740	2.50740	**0.30696**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04890**	1.26300	1.26300	**-0.19158**	2.50740	2.50740	**-0.25678**
	setup	**CLK (R)**	0.01860	0.01860	**0.11248**	1.26300	1.26300	**0.25365**	2.50740	2.50740	**0.32762**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02445**	1.26300	1.26300	**-0.15651**	2.50740	2.50740	**-0.25088**
	setup	**CLK (R)**	0.01860	0.01860	**0.11492**	1.26300	1.26300	**0.26174**	2.50740	2.50740	**0.36599**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02445**	1.26300	1.26300	**-0.15651**	2.50740	2.50740	**-0.25088**
	setup	**CLK (R)**	0.01860	0.01860	**0.10759**	1.26300	1.26300	**0.26444**	2.50740	2.50740	**0.38075**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.12470**	1.26300	1.26300	**0.27523**	2.50740	2.50740	**0.39551**
	removal	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.25634**	2.50740	2.50740	**-0.37780**
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.28333**	2.50740	2.50740	**0.42207**
	removal	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.25904**	2.50740	2.50740	**-0.39255**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dfrbp_2	-	3.3435
sg13g2_dfrbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_dfrbp_2	3.3435	3.3435
sg13g2_dfrbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03341**	0.32940	0.12960	**0.15005**	2.50740	0.60000	**0.58369**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02317**	0.32940	0.06480	**0.08166**	2.50740	0.30000	**0.29855**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03290**	0.32940	0.12960	**0.15074**	2.50740	0.60000	**0.57918**
	RESET_B	0.01860	0.00100	**0.03551**	0.32940	0.12960	**0.15338**	2.50740	0.60000	**0.59247**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02211**	0.32940	0.06480	**0.08091**	2.50740	0.30000	**0.29448**
	RESET_B	0.01860	0.00100	**0.02408**	0.32940	0.06480	**0.08279**	2.50740	0.30000	**0.30588**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03293**	0.32940	0.12960	**0.15140**	2.50740	0.60000	**0.58393**
	RESET_B	0.01860	0.00100	**0.03554**	0.32940	0.12960	**0.15406**	2.50740	0.60000	**0.59298**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02211**	0.32940	0.06480	**0.08124**	2.50740	0.30000	**0.29744**
	RESET_B	0.01860	0.00100	**0.02406**	0.32940	0.06480	**0.08332**	2.50740	0.30000	**0.30783**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03344**	0.32940	0.12960	**0.14950**	2.50740	0.60000	**0.57701**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02316**	0.32940	0.06480	**0.08136**	2.50740	0.30000	**0.29624**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00201**	0.32940	**0.00251**	2.50740	**0.00988**
sg13g2_dfrbp_1	0.01860	**0.00209**	0.32940	**0.00256**	2.50740	**0.00991**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00181**	0.32940	**0.00229**	2.50740	**0.00972**
sg13g2_dfrbp_1	0.01860	**0.00194**	0.32940	**0.00242**	2.50740	**0.00982**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00201**	0.32940	**0.00251**	2.50740	**0.00988**
	(!CLK * RESET_B)	0.01860	**0.01395**	0.32940	**0.01443**	2.50740	**0.02288**
	(!CLK * !RESET_B)	0.01860	**-0.00024**	0.32940	**-0.00026**	2.50740	**-0.00025**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00209**	0.32940	**0.00256**	2.50740	**0.00991**
	(!CLK * RESET_B)	0.01860	**0.01205**	0.32940	**0.01261**	2.50740	**0.02113**
	(!CLK * !RESET_B)	0.01860	**-0.00017**	0.32940	**-0.00018**	2.50740	**-0.00017**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00181**	0.32940	**0.00229**	2.50740	**0.00972**
	(!CLK * RESET_B)	0.01860	**0.01141**	0.32940	**0.01183**	2.50740	**0.02072**
	(!CLK * !RESET_B)	0.01860	**0.00054**	0.32940	**0.00056**	2.50740	**0.00056**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00194**	0.32940	**0.00242**	2.50740	**0.00982**
	(!CLK * RESET_B)	0.01860	**0.01034**	0.32940	**0.01079**	2.50740	**0.01957**
	(!CLK * !RESET_B)	0.01860	**0.00048**	0.32940	**0.00050**	2.50740	**0.00050**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00427**	0.32940	**0.00444**	2.50740	**0.01116**
sg13g2_dfrbp_1	0.01860	**0.00480**	0.32940	**0.00495**	2.50740	**0.01163**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01158**	0.32940	**0.01160**	2.50740	**0.02212**
sg13g2_dfrbp_1	0.01860	**0.01006**	0.32940	**0.01000**	2.50740	**0.02064**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00427**	0.32940	**0.00444**	2.50740	**0.01116**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00134**	0.32940	**0.00129**	2.50740	**0.00129**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01662**	0.32940	**0.01679**	2.50740	**0.02690**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00149**	0.32940	**0.00144**	2.50740	**0.00144**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00480**	0.32940	**0.00495**	2.50740	**0.01163**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00185**	0.32940	**0.00180**	2.50740	**0.00181**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01522**	0.32940	**0.01537**	2.50740	**0.02563**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00189**	0.32940	**0.00184**	2.50740	**0.00183**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.04663**	0.32940	**0.04713**	2.50740	**0.06801**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00051**	0.32940	**-0.00072**	2.50740	**-0.00080**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01158**	0.32940	**0.01160**	2.50740	**0.02212**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00081**	0.32940	**-0.00093**	2.50740	**-0.00098**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.03331**	0.32940	**0.03377**	2.50740	**0.05423**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00101**	0.32940	**-0.00122**	2.50740	**-0.00130**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01006**	0.32940	**0.01000**	2.50740	**0.02064**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00112**	0.32940	**-0.00130**	2.50740	**-0.00136**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01314**	0.32940	**0.01430**	2.50740	**0.03499**
sg13g2_dfrbp_1	0.01860	**0.01255**	0.32940	**0.01359**	2.50740	**0.03287**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.02453**	0.32940	**0.02562**	2.50740	**0.04682**
sg13g2_dfrbp_1	0.01860	**0.02183**	0.32940	**0.02290**	2.50740	**0.04290**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.01314**	0.32940	**0.01430**	2.50740	**0.03499**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01351**	0.32940	**0.01473**	2.50740	**0.03527**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01275**	0.32940	**0.01393**	2.50740	**0.03456**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01337**	0.32940	**0.01459**	2.50740	**0.03512**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01318**	0.32940	**0.01420**	2.50740	**0.03353**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01255**	0.32940	**0.01359**	2.50740	**0.03287**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01237**	0.32940	**0.01345**	2.50740	**0.03270**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01240**	0.32940	**0.01343**	2.50740	**0.03270**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.02453**	0.32940	**0.02562**	2.50740	**0.04682**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02453**	0.32940	**0.02562**	2.50740	**0.04682**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01286**	0.32940	**0.01406**	2.50740	**0.03455**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00444**	0.32940	**0.05887**	2.50740	**0.07924**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01285**	0.32940	**0.01405**	2.50740	**0.03455**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01280**	0.32940	**0.01400**	2.50740	**0.03448**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.02183**	0.32940	**0.02290**	2.50740	**0.04290**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02183**	0.32940	**0.02290**	2.50740	**0.04290**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01214**	0.32940	**0.01335**	2.50740	**0.03252**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00407**	0.32940	**0.04647**	2.50740	**0.06559**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01212**	0.32940	**0.01332**	2.50740	**0.03252**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01208**	0.32940	**0.01327**	2.50740	**0.03245**

DLHQ

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhq_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	D	GATE	Q
sg13g2_dlhq_1	0.00208	0.00214	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	2192.01000	2673.06000	3355.59000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.17111**	0.32940	0.06480	**0.43479**	2.50740	0.30000	**1.27469**
	GATE->Q (RR)	0.01860	0.00100	**0.14475**	0.32940	0.06480	**0.40968**	2.50740	0.30000	**1.21430**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.15027**	0.32940	0.06480	**0.39326**	2.50740	0.30000	**1.13393**
	GATE->Q (RF)	0.01860	0.00100	**0.15342**	0.32940	0.06480	**0.39535**	2.50740	0.30000	**1.08918**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.20070**
	setup	GATE (F)	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.23476**	2.50740	2.50740	**0.29515**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.03912**	1.26300	1.26300	**0.00270**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.00540**	2.50740	2.50740	**-0.03247**

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01769**	0.32940	0.06480	**0.01793**	2.50740	0.30000	**0.01790**
	GATE	0.01860	0.00100	**0.01412**	0.32940	0.06480	**0.01429**	2.50740	0.30000	**0.01498**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01824**	0.32940	0.06480	**0.01864**	2.50740	0.30000	**0.01884**
	GATE	0.01860	0.00100	**0.01537**	0.32940	0.06480	**0.01599**	2.50740	0.30000	**0.01597**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00414**	0.32940	**0.00505**	2.50740	**0.01908**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00436**	0.32940	**0.00528**	2.50740	**0.01907**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00457**	0.32940	**0.00539**	2.50740	**0.01938**
	(!GATE * !Q)	0.01860	**0.00414**	0.32940	**0.00505**	2.50740	**0.01908**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00409**	0.32940	**0.00511**	2.50740	**0.01896**
	(!GATE * !Q)	0.01860	**0.00436**	0.32940	**0.00528**	2.50740	**0.01907**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.01038**	0.32940	**0.01149**	2.50740	**0.02928**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00385**	0.32940	**0.01921**	2.50740	**0.03715**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.01038**	0.32940	**0.01149**	2.50740	**0.02928**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.00385**	0.32940	**0.01921**	2.50740	**0.03715**

DLHRQ

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhrq_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	RESET_B	GATE	Q
sg13g2_dlhrq_1	0.00194	0.00262	0.00205	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	2461.77000	2905.86000	3378.47000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.17719**	0.32940	0.06480	**0.44489**	2.50740	0.30000	**1.28133**
	GATE->Q (RR)	0.01860	0.00100	**0.15769**	0.32940	0.06480	**0.42757**	2.50740	0.30000	**1.22894**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.15704**	0.32940	0.06480	**0.40056**	2.50740	0.30000	**1.14271**
	GATE->Q (RF)	0.01860	0.00100	**0.16068**	0.32940	0.06480	**0.40451**	2.50740	0.30000	**1.10179**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06259**	0.32940	0.06480	**0.32716**	2.50740	0.30000	**1.14638**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.07825**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.17709**
	setup	GATE (F)	0.01860	0.01860	**0.09781**	1.26300	1.26300	**0.21587**	2.50740	2.50740	**0.26269**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**0.00270**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.05624**	1.26300	1.26300	**0.00810**	2.50740	2.50740	**-0.03247**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.00978**	1.26300	1.26300	**-0.10794**	2.50740	2.50740	**-0.17119**
	removal	GATE (F)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**0.13762**	2.50740	2.50740	**0.20366**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhrq_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhrq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00296**	0.32940	0.06480	**0.00160**	2.50740	0.30000	**0.00086**
	GATE	0.01860	0.00100	**0.01507**	0.32940	0.06480	**0.01526**	2.50740	0.30000	**0.01630**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00762**	0.32940	0.06480	**-0.00160**	2.50740	0.30000	**-0.00086**
	GATE	0.01860	0.00100	**0.01480**	0.32940	0.06480	**0.01544**	2.50740	0.30000	**0.01519**
	RESET_B	0.01860	0.00100	**0.00828**	0.32940	0.06480	**0.00961**	2.50740	0.30000	**0.02570**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01875**	0.32940	**0.02127**	2.50740	**0.03565**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01321**	0.32940	**0.03004**	2.50740	**0.04420**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00445**	0.32940	**0.00532**	2.50740	**0.01933**
	!RESET_B	0.01860	**0.01875**	0.32940	**0.02127**	2.50740	**0.03565**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00399**	0.32940	**0.00501**	2.50740	**0.01884**
	!RESET_B	0.01860	**0.01321**	0.32940	**0.03004**	2.50740	**0.04420**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00000**	0.32940	**-0.00004**	2.50740	**-0.00004**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00053**	0.32940	**0.00042**	2.50740	**0.00037**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**-0.00004**	2.50740	**-0.00004**
	(!D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**-0.00004**	2.50740	**-0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00053**	0.32940	**0.00042**	2.50740	**0.00037**
	(!D * !GATE * !Q)	0.01860	**0.00053**	0.32940	**0.00042**	2.50740	**0.00037**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00992**	0.32940	**0.01098**	2.50740	**0.02873**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00398**	0.32940	**0.01915**	2.50740	**0.03709**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01355**	0.32940	**0.01459**	2.50740	**0.03346**
	(!D * !RESET_B * !Q)	0.01860	**0.00992**	0.32940	**0.01098**	2.50740	**0.02873**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01418**	0.32940	**0.01548**	2.50740	**0.03474**
	(!D * RESET_B * !Q)	0.01860	**0.00398**	0.32940	**0.01915**	2.50740	**0.03709**
	(!D * !RESET_B * !Q)	0.01860	**0.00405**	0.32940	**0.01922**	2.50740	**0.03716**

DLHR

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE	Q	Q_N
sg13g2_dlhr_1	0.00196	0.00277	0.00212	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	3241.36000	3729.64000	4179.15000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.19188**	0.32940	0.06480	**0.46567**	2.50740	0.30000	**1.30151**
	GATE->Q (RR)	0.01860	0.00100	**0.17333**	0.32940	0.06480	**0.45038**	2.50740	0.30000	**1.25399**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.16325**	0.32940	0.06480	**0.40974**	2.50740	0.30000	**1.14697**
	GATE->Q (RF)	0.01860	0.00100	**0.16687**	0.32940	0.06480	**0.41442**	2.50740	0.30000	**1.10719**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06791**	0.32940	0.06480	**0.34375**	2.50740	0.30000	**1.17371**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.20070**	0.32940	0.06480	**0.45919**	2.50740	0.30000	**1.29096**
	GATE->Q_N (RR)	0.01860	0.00100	**0.20452**	0.32940	0.06480	**0.46386**	2.50740	0.30000	**1.25039**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10535**	0.32940	0.06480	**0.38753**	2.50740	0.30000	**1.26271**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.23271**	0.32940	0.06480	**0.46690**	2.50740	0.30000	**1.20845**
	GATE->Q_N (RF)	0.01860	0.00100	**0.21439**	0.32940	0.06480	**0.45139**	2.50740	0.30000	**1.16090**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.08314**	1.26300	1.26300	**-0.16460**	2.50740	2.50740	**-0.18004**
	setup	GATE (F)	0.01860	0.01860	**0.10514**	1.26300	1.26300	**0.21587**	2.50740	2.50740	**0.26564**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**0.00270**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.00810**	2.50740	2.50740	**-0.02952**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**0.00000**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.10921**
	removal	GATE (F)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**0.09984**	2.50740	2.50740	**0.14463**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhr_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhr_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00649**	0.32940	0.06480	**0.00604**	2.50740	0.30000	**0.00749**
	GATE	0.01860	0.00100	**0.01236**	0.32940	0.06480	**0.01266**	2.50740	0.30000	**0.01358**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00863**	0.32940	0.06480	**0.00099**	2.50740	0.30000	**0.00006**
	GATE	0.01860	0.00100	**0.01219**	0.32940	0.06480	**0.01255**	2.50740	0.30000	**0.01229**
	RESET_B	0.01860	0.00100	**0.00874**	0.32940	0.06480	**0.00941**	2.50740	0.30000	**0.01803**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00866**	0.32940	0.06480	**0.00119**	2.50740	0.30000	**0.00145**
	GATE	0.01860	0.00100	**0.01221**	0.32940	0.06480	**0.01276**	2.50740	0.30000	**0.01332**
	RESET_B	0.01860	0.00100	**0.00876**	0.32940	0.06480	**0.00959**	2.50740	0.30000	**0.01872**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00649**	0.32940	0.06480	**0.00587**	2.50740	0.30000	**0.00569**
	GATE	0.01860	0.00100	**0.01235**	0.32940	0.06480	**0.01251**	2.50740	0.30000	**0.01272**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01826**	0.32940	**0.02079**	2.50740	**0.03515**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01285**	0.32940	**0.02952**	2.50740	**0.04380**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00441**	0.32940	**0.00533**	2.50740	**0.01936**
	!RESET_B	0.01860	**0.01826**	0.32940	**0.02079**	2.50740	**0.03515**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00370**	0.32940	**0.00476**	2.50740	**0.01864**
	!RESET_B	0.01860	**0.01285**	0.32940	**0.02952**	2.50740	**0.04380**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**-0.00014**	0.32940	**-0.00020**	2.50740	**-0.00020**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00067**	0.32940	**0.00057**	2.50740	**0.00052**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**-0.00014**	0.32940	**-0.00020**	2.50740	**-0.00020**
	(!D * !GATE * !Q)	0.01860	**-0.00014**	0.32940	**-0.00020**	2.50740	**-0.00020**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00067**	0.32940	**0.00057**	2.50740	**0.00052**
	(!D * !GATE * !Q)	0.01860	**0.00067**	0.32940	**0.00057**	2.50740	**0.00052**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00947**	0.32940	**0.01057**	2.50740	**0.02833**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00405**	0.32940	**0.01880**	2.50740	**0.03682**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01310**	0.32940	**0.01414**	2.50740	**0.03306**
	(!D * !RESET_B * !Q)	0.01860	**0.00947**	0.32940	**0.01057**	2.50740	**0.02833**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01453**	0.32940	**0.01585**	2.50740	**0.03512**
	(!D * RESET_B * !Q)	0.01860	**0.00405**	0.32940	**0.01880**	2.50740	**0.03682**
	(!D * !RESET_B * !Q)	0.01860	**0.00411**	0.32940	**0.01887**	2.50740	**0.03688**

DLLRQ

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

Truth Table

INPUT			OUTPUT
D	RESET_B	GATE_N	Q
x	0	x	0
0	1	0	0
x	1	1	IQ
1	1	0	1

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	RESET_B	GATE_N	Q
sg13g2_dllrq_1	0.00192	0.00264	0.00205	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	2319.78000	2868.89000	3378.60000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.17695**	0.32940	0.06480	**0.44378**	2.50740	0.30000	**1.27969**
	GATE_N->Q (FR)	0.01860	0.00100	**0.19534**	0.32940	0.06480	**0.47615**	2.50740	0.30000	**1.36861**
	RESET_B->Q (RR)	0.01860	0.00100	**0.07852**	0.32940	0.06480	**0.34558**	2.50740	0.30000	**1.23160**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.15641**	0.32940	0.06480	**0.39786**	2.50740	0.30000	**1.13517**
	GATE_N->Q (FF)	0.01860	0.00100	**0.14755**	0.32940	0.06480	**0.40831**	2.50740	0.30000	**1.23234**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06338**	0.32940	0.06480	**0.32721**	2.50740	0.30000	**1.14311**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.08905**	2.50740	2.50740	**-0.12101**
	setup	GATE_N (R)	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.09984**	2.50740	2.50740	**0.13282**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08069**	1.26300	1.26300	**-0.22666**	2.50740	2.50740	**-0.30401**
	setup	GATE_N (R)	0.01860	0.01860	**0.09047**	1.26300	1.26300	**0.27523**	2.50740	2.50740	**0.39255**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**-0.07016**	2.50740	2.50740	**-0.06493**
	removal	GATE_N (R)	0.01860	0.01860	**0.04401**	1.26300	1.26300	**0.08905**	2.50740	2.50740	**0.08264**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00771**	0.32940	0.06480	**0.00821**	2.50740	0.30000	**0.00868**
	GATE_N	0.01860	0.00100	**0.02173**	0.32940	0.06480	**0.00829**	2.50740	0.30000	**0.00858**
	RESET_B	0.01860	0.00100	**0.01143**	0.32940	0.06480	**0.01207**	2.50740	0.30000	**0.02721**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.01773**	0.32940	0.06480	**-0.00012**	2.50740	0.30000	**-0.00064**
	GATE_N	0.01860	0.00100	**0.02011**	0.32940	0.06480	**0.00669**	2.50740	0.30000	**0.00817**
	RESET_B	0.01860	0.00100	**0.00852**	0.32940	0.06480	**0.00987**	2.50740	0.30000	**0.02561**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01397**	0.32940	**0.01458**	2.50740	**0.02855**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00318**	0.32940	**0.02230**	2.50740	**0.03660**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00441**	0.32940	**0.00534**	2.50740	**0.01935**
	!RESET_B	0.01860	**0.01397**	0.32940	**0.01458**	2.50740	**0.02855**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00379**	0.32940	**0.00484**	2.50740	**0.01871**
	!RESET_B	0.01860	**0.00318**	0.32940	**0.02230**	2.50740	**0.03660**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00001**	0.32940	**-0.00004**	2.50740	**-0.00004**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00053**	0.32940	**0.00042**	2.50740	**0.00037**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00001**	0.32940	**-0.00004**	2.50740	**-0.00004**
	(!D * GATE_N * !Q)	0.01860	**0.00001**	0.32940	**-0.00004**	2.50740	**-0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00053**	0.32940	**0.00042**	2.50740	**0.00037**
	(!D * GATE_N * !Q)	0.01860	**0.00053**	0.32940	**0.00042**	2.50740	**0.00037**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00869**	0.32940	**0.00980**	2.50740	**0.02754**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00396**	0.32940	**0.01894**	2.50740	**0.03688**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01575**	0.32940	**0.01679**	2.50740	**0.03423**
	(!D * !RESET_B * !Q)	0.01860	**0.00869**	0.32940	**0.00980**	2.50740	**0.02754**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01428**	0.32940	**0.01545**	2.50740	**0.03325**
	(!D * RESET_B * !Q)	0.01860	**0.00396**	0.32940	**0.01894**	2.50740	**0.03688**
	(!D * !RESET_B * !Q)	0.01860	**0.00403**	0.32940	**0.01901**	2.50740	**0.03695**

DLLR

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

Truth Table

INPUT			OUTPUT	
D	RESET_B	GATE_N	Q	Q_N
x	0	x	0	1
0	1	0	0	1
x	1	1	IQ	IQN
1	1	0	1	0

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE_N	Q	Q_N
sg13g2_dllr_1	0.00197	0.00277	0.00212	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	3098.94000	3804.90000	4197.66000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.19430**	0.32940	0.06480	**0.46796**	2.50740	0.30000	**1.30469**
	GATE_N->Q (FR)	0.01860	0.00100	**0.21304**	0.32940	0.06480	**0.50176**	2.50740	0.30000	**1.39549**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.16524**	0.32940	0.06480	**0.41158**	2.50740	0.30000	**1.14897**
	GATE_N->Q (FF)	0.01860	0.00100	**0.15727**	0.32940	0.06480	**0.42407**	2.50740	0.30000	**1.25190**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06786**	0.32940	0.06480	**0.34834**	2.50740	0.30000	**1.15557**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.20259**	0.32940	0.06480	**0.46076**	2.50740	0.30000	**1.29179**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.19476**	0.32940	0.06480	**0.47390**	2.50740	0.30000	**1.39351**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10606**	0.32940	0.06480	**0.38925**	2.50740	0.30000	**1.27103**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.23494**	0.32940	0.06480	**0.46923**	2.50740	0.30000	**1.21109**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.25395**	0.32940	0.06480	**0.50287**	2.50740	0.30000	**1.30344**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08069**	1.26300	1.26300	**-0.09444**	2.50740	2.50740	**-0.12692**
	setup	GATE_N (R)	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.10794**	2.50740	2.50740	**0.13872**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08314**	1.26300	1.26300	**-0.22936**	2.50740	2.50740	**-0.30696**
	setup	GATE_N (R)	0.01860	0.01860	**0.09781**	1.26300	1.26300	**0.28333**	2.50740	2.50740	**0.40141**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.01467**	1.26300	1.26300	**-0.03238**	2.50740	2.50740	**-0.00295**
	removal	GATE_N (R)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**0.05397**	2.50740	2.50740	**0.02361**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01255**	0.32940	0.06480	**0.07067**	2.50740	0.30000	**0.28614**
	GATE_N	0.01860	0.00100	**0.02695**	0.32940	0.06480	**0.08583**	2.50740	0.30000	**0.30267**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01761**	0.32940	0.06480	**0.05890**	2.50740	0.30000	**0.27172**
	GATE_N	0.01860	0.00100	**0.02471**	0.32940	0.06480	**0.08318**	2.50740	0.30000	**0.29886**
	RESET_B	0.01860	0.00100	**0.02809**	0.32940	0.06480	**0.08697**	2.50740	0.30000	**0.31510**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01766**	0.32940	0.06480	**0.05928**	2.50740	0.30000	**0.27502**
	GATE_N	0.01860	0.00100	**0.02473**	0.32940	0.06480	**0.08368**	2.50740	0.30000	**0.30113**
	RESET_B	0.01860	0.00100	**0.02811**	0.32940	0.06480	**0.08724**	2.50740	0.30000	**0.31665**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01255**	0.32940	0.06480	**0.07032**	2.50740	0.30000	**0.28403**
	GATE_N	0.01860	0.00100	**0.02694**	0.32940	0.06480	**0.08546**	2.50740	0.30000	**0.29949**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.02012**	0.32940	**0.02172**	2.50740	**0.03614**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01350**	0.32940	**0.03169**	2.50740	**0.04598**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00442**	0.32940	**0.00533**	2.50740	**0.01937**
	!RESET_B	0.01860	**0.02012**	0.32940	**0.02172**	2.50740	**0.03614**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00370**	0.32940	**0.00475**	2.50740	**0.01864**
	!RESET_B	0.01860	**0.01350**	0.32940	**0.03169**	2.50740	**0.04598**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**-0.00014**	0.32940	**-0.00019**	2.50740	**-0.00019**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00068**	0.32940	**0.00057**	2.50740	**0.00053**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**-0.00014**	0.32940	**-0.00019**	2.50740	**-0.00019**
	(!D * GATE_N * !Q)	0.01860	**-0.00014**	0.32940	**-0.00019**	2.50740	**-0.00019**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00068**	0.32940	**0.00057**	2.50740	**0.00053**
	(!D * GATE_N * !Q)	0.01860	**0.00068**	0.32940	**0.00057**	2.50740	**0.00053**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00296**	0.32940	**0.01930**	2.50740	**0.03701**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00984**	0.32940	**0.01108**	2.50740	**0.02900**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01595**	0.32940	**0.01690**	2.50740	**0.03439**
	(!D * RESET_B * !Q)	0.01860	**0.00289**	0.32940	**0.01925**	2.50740	**0.03695**
	(!D * !RESET_B * !Q)	0.01860	**0.00296**	0.32940	**0.01930**	2.50740	**0.03701**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01478**	0.32940	**0.01597**	2.50740	**0.03371**
	(!D * !RESET_B * !Q)	0.01860	**0.00984**	0.32940	**0.01108**	2.50740	**0.02900**

DLY1

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00128	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	1250.82000	1439.19000	1627.55000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.11314**	0.32940	0.06480	**0.37613**	2.50740	0.30000	**1.15118**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.12980**	0.32940	0.06480	**0.39594**	2.50740	0.30000	**1.25223**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01514**	0.32940	0.06480	**0.01578**	2.50740	0.30000	**0.02481**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01439**	0.32940	0.06480	**0.01516**	2.50740	0.30000	**0.02460**

DLY2

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00129	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	1270.94000	1459.31000	1647.68000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.16864**	0.32940	0.06480	**0.44321**	2.50740	0.30000	**1.26233**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.18944**	0.32940	0.06480	**0.47624**	2.50740	0.30000	**1.37260**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01801**	0.32940	0.06480	**0.01836**	2.50740	0.30000	**0.02607**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01742**	0.32940	0.06480	**0.01795**	2.50740	0.30000	**0.02598**

DLY4

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd3_1	0.00126	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	2554.51000	2742.91000	2931.30000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.37634**	0.32940	0.06480	**0.68669**	2.50740	0.30000	**1.59345**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.39394**	0.32940	0.06480	**0.71945**	2.50740	0.30000	**1.70654**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02623**	0.32940	0.06480	**0.02619**	2.50740	0.30000	**0.03246**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02598**	0.32940	0.06480	**0.02581**	2.50740	0.30000	**0.03248**

EINVINx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_4	23.58720
sg13g2_einvn_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_4	0.00753	0.00856	1.20000
sg13g2_einvn_2	0.00378	0.00448	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	1199.74000	2309.86000	3419.99000
sg13g2_einvn_2	594.23400	1149.30000	1704.37000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (FR)	0.01860	0.01041	**0.02483**	0.32940	0.26861	**0.53312**	2.50740	1.20941	**2.80262**
	TE_B->Z (RR)	0.01860	0.01041	**0.05212**	0.32940	0.26861	**0.12289**	2.50740	1.20941	**0.25216**
	TE_B->Z (FR)	0.01860	0.01041	**0.03167**	0.32940	0.26861	**0.51705**	2.50740	1.20941	**2.58008**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00583	**0.02638**	0.32940	0.13443	**0.53290**	2.50740	0.60483	**2.80034**
	TE_B->Z (RR)	0.01860	0.00583	**0.05099**	0.32940	0.13443	**0.11966**	2.50740	0.60483	**0.25392**
	TE_B->Z (FR)	0.01860	0.00583	**0.03330**	0.32940	0.13443	**0.51728**	2.50740	0.60483	**2.57969**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01549	**0.02274**	0.32940	0.27369	**0.43138**	2.50740	1.21449	**2.34581**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00845	**0.02406**	0.32940	0.13705	**0.43148**	2.50740	0.60745	**2.34565**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01041	**0.00777**	0.32940	0.26861	**0.00849**	2.50740	1.20941	**0.01881**
	TE_B	0.01860	0.01041	**0.02617**	0.32940	0.26861	**0.01694**	2.50740	1.20941	**0.01101**
sg13g2_einvn_2	A	0.01860	0.00583	**0.00396**	0.32940	0.13443	**0.00428**	2.50740	0.60483	**0.00925**
	TE_B	0.01860	0.00583	**0.01301**	0.32940	0.13443	**0.00836**	2.50740	0.60483	**0.00536**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01549	**0.01457**	0.32940	0.27369	**0.01673**	2.50740	1.21449	**0.02521**
sg13g2_einvn_2	A	0.01860	0.00845	**0.00732**	0.32940	0.13705	**0.00828**	2.50740	0.60745	**0.01259**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**-0.00312**	0.32940	**-0.00314**	2.50740	**-0.00317**
sg13g2_einvn_2	0.01860	**-0.00147**	0.32940	**-0.00148**	2.50740	**-0.00149**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00437**	0.32940	**0.00423**	2.50740	**0.00422**
sg13g2_einvn_2	0.01860	**0.00217**	0.32940	**0.00209**	2.50740	**0.00209**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**-0.00182**	0.32940	**-0.00114**	2.50740	**0.01771**
sg13g2_einvn_2	0.01860	**-0.00070**	0.32940	**-0.00035**	2.50740	**0.00951**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00983**	0.32940	**0.01965**	2.50740	**0.03941**
sg13g2_einvn_2	0.01860	**0.00504**	0.32940	**0.00998**	2.50740	**0.02020**

FILLx

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

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_2	3.62880
sg13g2_fill_4	7.25760
sg13g2_fill_8	14.51520

Pin Capacitance Information

Leakage Information

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

INx

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

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_16	0.04455	4.80000
sg13g2_inv_8	0.02168	2.40000
sg13g2_inv_4	0.01085	1.20000
sg13g2_inv_2	0.00542	0.60000
sg13g2_inv_1	0.00272	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	3291.04000	7731.67000	12172.30000
sg13g2_inv_8	1645.53000	3865.84000	6086.14000
sg13g2_inv_4	822.76100	1932.92000	3043.07000
sg13g2_inv_2	411.38100	966.46100	1521.54000
sg13g2_inv_1	205.87300	483.32500	760.77700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.01662**	0.32940	1.03680	**0.35176**	2.50740	4.80000	**2.00414**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01648**	0.32940	0.51840	**0.35125**	2.50740	2.40000	**2.00258**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01691**	0.32940	0.25920	**0.35112**	2.50740	1.20000	**2.00206**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01808**	0.32940	0.12960	**0.35046**	2.50740	0.60000	**1.99934**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.02069**	0.32940	0.06480	**0.35119**	2.50740	0.30000	**1.99977**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.01595**	0.32940	1.03680	**0.32593**	2.50740	4.80000	**1.86274**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01585**	0.32940	0.51840	**0.32629**	2.50740	2.40000	**1.86255**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01624**	0.32940	0.25920	**0.32610**	2.50740	1.20000	**1.86207**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01725**	0.32940	0.12960	**0.32455**	2.50740	0.60000	**1.85469**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01977**	0.32940	0.06480	**0.32521**	2.50740	0.30000	**1.85545**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02729**	0.32940	1.03680	**0.03425**	2.50740	4.80000	**0.10092**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01304**	0.32940	0.51840	**0.01637**	2.50740	2.40000	**0.04867**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00655**	0.32940	0.25920	**0.00831**	2.50740	1.20000	**0.02453**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00335**	0.32940	0.12960	**0.00407**	2.50740	0.60000	**0.01257**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00200**	0.32940	0.06480	**0.00228**	2.50740	0.30000	**0.00649**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02354**	0.32940	1.03680	**0.03153**	2.50740	4.80000	**0.09913**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01124**	0.32940	0.51840	**0.01574**	2.50740	2.40000	**0.04661**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00569**	0.32940	0.25920	**0.00775**	2.50740	1.20000	**0.02335**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00293**	0.32940	0.12960	**0.00378**	2.50740	0.60000	**0.01153**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00193**	0.32940	0.06480	**0.00226**	2.50740	0.30000	**0.00615**

ITL

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_8	39.84120

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_8	0.01498	0.01459	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	2193.62000	4413.89000	6634.15000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (FR)	0.01860	0.01976	**0.02416**	0.32940	0.53716	**0.53530**	2.50740	2.41876	**2.80912**
	TE_B->Z (RR)	0.01860	0.01976	**0.06830**	0.32940	0.53716	**0.16252**	2.50740	2.41876	**0.34787**
	TE_B->Z (FR)	0.01860	0.01976	**0.03237**	0.32940	0.53716	**0.51980**	2.50740	2.41876	**2.58816**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (RF)	0.01860	0.02987	**0.02294**	0.32940	0.54727	**0.43271**	2.50740	2.42887	**2.35217**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.01976	**0.01504**	0.32940	0.53716	**0.01765**	2.50740	2.41876	**0.04060**
	TE_B	0.01860	0.01976	**0.05444**	0.32940	0.53716	**0.03535**	2.50740	2.41876	**0.02920**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.02987	**0.02869**	0.32940	0.54727	**0.03352**	2.50740	2.42887	**0.04987**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**-0.00647**	0.32940	**-0.00652**	2.50740	**-0.00659**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.00887**	0.32940	**0.00861**	2.50740	**0.00861**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**-0.00608**	0.32940	**-0.00588**	2.50740	**0.01138**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.01535**	0.32940	**0.03382**	2.50740	**0.05257**

KEEPSTATE

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

Truth Table

INPUT	OUTPUT
SH	SH
x	-

Footprint

Cell Name	Area
sg13g2_sighold	9.07200

Pin Capacitance Information

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

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	290.15900	312.05800	333.95700

Passive Power Information

Passive power(pJ) for SH rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sighold	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for SH falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sighold	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

MUX2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux2_1	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_1	0.00185	0.00186	0.00481	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	1203.82000	1680.13000	2354.83000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.07667**	0.32940	0.06480	**0.35573**	2.50740	0.30000	**1.22822**
	A1->X (RR)	0.01860	0.00100	**0.05053**	0.32940	0.06480	**0.35697**	2.50740	0.30000	**1.24263**
	S->X (-R)	0.01860	0.00100	**0.08000**	0.32940	0.06480	**0.35466**	2.50740	0.30000	**1.23356**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.05469**	0.32940	0.06480	**0.37490**	2.50740	0.30000	**1.26303**
	A1->X (FF)	0.01860	0.00100	**0.09481**	0.32940	0.06480	**0.38030**	2.50740	0.30000	**1.27527**
	S->X (-F)	0.01860	0.00100	**0.10630**	0.32940	0.06480	**0.36724**	2.50740	0.30000	**1.21397**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.08000**	0.32940	0.06480	**0.35466**	2.50740	0.30000	**1.23356**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.11558**	0.32940	0.06480	**0.38557**	2.50740	0.30000	**1.22172**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.10630**	0.32940	0.06480	**0.36724**	2.50740	0.30000	**1.21397**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.13784**	0.32940	0.06480	**0.39268**	2.50740	0.30000	**1.14737**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01101**	0.32940	0.06480	**0.01148**	2.50740	0.30000	**0.02587**
	A1	0.01860	0.00100	**0.01065**	0.32940	0.06480	**0.01635**	2.50740	0.30000	**0.03126**
	S	0.01860	0.00100	**0.01204**	0.32940	0.06480	**0.01284**	2.50740	0.30000	**0.02629**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01046**	0.32940	0.06480	**0.01702**	2.50740	0.30000	**0.03275**
	A1	0.01860	0.00100	**0.01228**	0.32940	0.06480	**0.01323**	2.50740	0.30000	**0.02820**
	S	0.01860	0.00100	**0.01112**	0.32940	0.06480	**0.01195**	2.50740	0.30000	**0.02653**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01189**	0.32940	0.06480	**0.01213**	2.50740	0.30000	**0.01177**
	S	(!A0 * A1)	0.01860	0.00100	**0.01204**	0.32940	0.06480	**0.01284**	2.50740	0.30000	**0.02629**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01209**	0.32940	0.06480	**0.01222**	2.50740	0.30000	**0.01207**
	S	(!A0 * A1)	0.01860	0.00100	**0.01112**	0.32940	0.06480	**0.01195**	2.50740	0.30000	**0.02653**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00468**	0.32940	**0.00551**	2.50740	**0.01943**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00498**	0.32940	**0.00580**	2.50740	**0.01956**

MUX4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux4_1	38.10240

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	A3	S0	S1	X
sg13g2_mux4_1	0.00259	0.00259	0.00259	0.00260	0.00747	0.00462	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	1583.44000	3711.48000	5416.70000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.13770**	0.32940	0.06480	**0.43478**	2.50740	0.30000	**1.41278**
	A1->X (RR)	0.01860	0.00100	**0.13115**	0.32940	0.06480	**0.43292**	2.50740	0.30000	**1.40708**
	A2->X (RR)	0.01860	0.00100	**0.14053**	0.32940	0.06480	**0.44404**	2.50740	0.30000	**1.43261**
	A3->X (RR)	0.01860	0.00100	**0.13725**	0.32940	0.06480	**0.44227**	2.50740	0.30000	**1.43013**
	S0->X (-R)	0.01860	0.00100	**0.11405**	0.32940	0.06480	**0.43022**	2.50740	0.30000	**1.40678**
	S1->X (-R)	0.01860	0.00100	**-0.00291**	0.32940	0.06480	**0.34104**	2.50740	0.30000	**1.22594**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.15615**	0.32940	0.06480	**0.44389**	2.50740	0.30000	**1.30422**
	A1->X (FF)	0.01860	0.00100	**0.15716**	0.32940	0.06480	**0.44360**	2.50740	0.30000	**1.30864**
	A2->X (FF)	0.01860	0.00100	**0.16674**	0.32940	0.06480	**0.45775**	2.50740	0.30000	**1.33414**
	A3->X (FF)	0.01860	0.00100	**0.16811**	0.32940	0.06480	**0.45732**	2.50740	0.30000	**1.33305**
	S0->X (-F)	0.01860	0.00100	**0.14021**	0.32940	0.06480	**0.44855**	2.50740	0.30000	**1.35624**
	S1->X (-F)	0.01860	0.00100	**0.03539**	0.32940	0.06480	**0.35458**	2.50740	0.30000	**1.19662**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.11405**	0.32940	0.06480	**0.43022**	2.50740	0.30000	**1.40678**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.10710**	0.32940	0.06480	**0.41589**	2.50740	0.30000	**1.37518**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.16923**	0.32940	0.06480	**0.46485**	2.50740	0.30000	**1.35267**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.16373**	0.32940	0.06480	**0.45662**	2.50740	0.30000	**1.33962**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**-0.00632**	0.32940	0.06480	**0.33474**	2.50740	0.30000	**1.22541**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.00291**	0.32940	0.06480	**0.34104**	2.50740	0.30000	**1.22594**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**-0.00639**	0.32940	0.06480	**0.36308**	2.50740	0.30000	**1.20670**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.00377**	0.32940	0.06480	**0.36571**	2.50740	0.30000	**1.20661**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.14021**	0.32940	0.06480	**0.44855**	2.50740	0.30000	**1.35624**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.12689**	0.32940	0.06480	**0.42842**	2.50740	0.30000	**1.31935**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.18492**	0.32940	0.06480	**0.47350**	2.50740	0.30000	**1.27790**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.17492**	0.32940	0.06480	**0.46016**	2.50740	0.30000	**1.25911**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.03539**	0.32940	0.06480	**0.35458**	2.50740	0.30000	**1.19662**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.00738**	0.32940	0.06480	**0.34440**	2.50740	0.30000	**1.19521**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.00116**	0.32940	0.06480	**0.37015**	2.50740	0.30000	**1.13221**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.00742**	0.32940	0.06480	**0.36482**	2.50740	0.30000	**1.13147**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	**A0**	0.01860	0.00100	**0.02138**	0.32940	0.06480	**0.02144**	2.50740	0.30000	**0.03301**
	A1	0.01860	0.00100	**0.01454**	0.32940	0.06480	**0.01455**	2.50740	0.30000	**0.02640**
	A2	0.01860	0.00100	**0.01553**	0.32940	0.06480	**0.01551**	2.50740	0.30000	**0.02661**
	A3	0.01860	0.00100	**0.01945**	0.32940	0.06480	**0.01945**	2.50740	0.30000	**0.03108**
	S0	0.01860	0.00100	**0.01059**	0.32940	0.06480	**0.01143**	2.50740	0.30000	**0.02607**
	S1	0.01860	0.00100	**0.01182**	0.32940	0.06480	**0.03274**	2.50740	0.30000	**0.04739**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	**A0**	0.01860	0.00100	**0.02110**	0.32940	0.06480	**0.02108**	2.50740	0.30000	**0.03206**
	A1	0.01860	0.00100	**0.01999**	0.32940	0.06480	**0.01994**	2.50740	0.30000	**0.03128**
	A2	0.01860	0.00100	**0.02224**	0.32940	0.06480	**0.02216**	2.50740	0.30000	**0.03287**
	A3	0.01860	0.00100	**0.01647**	0.32940	0.06480	**0.01634**	2.50740	0.30000	**0.02844**
	S0	0.01860	0.00100	**0.01816**	0.32940	0.06480	**0.02298**	2.50740	0.30000	**0.01098**
	S1	0.01860	0.00100	**0.01311**	0.32940	0.06480	**0.03403**	2.50740	0.30000	**0.04991**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.02234**	0.32940	0.06480	**0.01513**	2.50740	0.30000	**0.00207**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02228**	0.32940	0.06480	**0.01520**	2.50740	0.30000	**0.00225**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01050**	0.32940	0.06480	**0.01164**	2.50740	0.30000	**0.02507**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01059**	0.32940	0.06480	**0.01143**	2.50740	0.30000	**0.02607**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01226**	0.32940	0.06480	**0.04232**	2.50740	0.30000	**0.05318**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01410**	0.32940	0.06480	**0.03872**	2.50740	0.30000	**0.04853**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01182**	0.32940	0.06480	**0.03274**	2.50740	0.30000	**0.04739**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01331**	0.32940	0.06480	**0.03010**	2.50740	0.30000	**0.04335**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.01816**	0.32940	0.06480	**0.02298**	2.50740	0.30000	**0.01098**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01761**	0.32940	0.06480	**0.02396**	2.50740	0.30000	**0.01141**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01275**	0.32940	0.06480	**0.00801**	2.50740	0.30000	**0.02043**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01269**	0.32940	0.06480	**0.00788**	2.50740	0.30000	**0.02201**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01584**	0.32940	0.06480	**0.03157**	2.50740	0.30000	**0.04063**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01411**	0.32940	0.06480	**0.04267**	2.50740	0.30000	**0.05341**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01442**	0.32940	0.06480	**0.02508**	2.50740	0.30000	**0.03872**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01311**	0.32940	0.06480	**0.03403**	2.50740	0.30000	**0.04991**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00946**	0.32940	**0.01164**	2.50740	**0.04314**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00706**	0.32940	**0.01508**	2.50740	**0.04641**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00908**	0.32940	**0.01119**	2.50740	**0.04268**
	(A0 * A1 * !S1)	0.01860	**0.00970**	0.32940	**0.01159**	2.50740	**0.04265**
	(!A2 * !A3 * S1)	0.01860	**0.00946**	0.32940	**0.01164**	2.50740	**0.04314**
	(!A0 * !A1 * !S1)	0.01860	**0.01068**	0.32940	**0.01267**	2.50740	**0.04374**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00706**	0.32940	**0.01508**	2.50740	**0.04641**
	(A0 * A1 * !S1)	0.01860	**0.00776**	0.32940	**0.01756**	2.50740	**0.04850**
	(!A2 * !A3 * S1)	0.01860	**0.00719**	0.32940	**0.01509**	2.50740	**0.04632**
	(!A0 * !A1 * !S1)	0.01860	**0.00933**	0.32940	**0.01155**	2.50740	**0.04230**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00450**	0.32940	**0.00580**	2.50740	**0.02311**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00436**	0.32940	**0.00600**	2.50740	**0.02310**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00443**	0.32940	**0.00574**	2.50740	**0.02304**
	(A0 * A2 * !S0)	0.01860	**0.00450**	0.32940	**0.00580**	2.50740	**0.02311**
	(!A1 * !A3 * S0)	0.01860	**0.00473**	0.32940	**0.00622**	2.50740	**0.02349**
	(!A0 * !A2 * !S0)	0.01860	**0.00479**	0.32940	**0.00628**	2.50740	**0.02354**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00431**	0.32940	**0.00593**	2.50740	**0.02304**
	(A0 * A2 * !S0)	0.01860	**0.00436**	0.32940	**0.00600**	2.50740	**0.02310**
	(!A1 * !A3 * S0)	0.01860	**0.00480**	0.32940	**0.00625**	2.50740	**0.02335**
	(!A0 * !A2 * !S0)	0.01860	**0.00485**	0.32940	**0.00630**	2.50740	**0.02341**

NAND2B1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00218	0.00293	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	330.12500	860.13100	1660.52000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.05139**	0.32940	0.06480	**0.31899**	2.50740	0.30000	**1.19218**
	B->Y (FR)	0.01860	0.00100	**0.02567**	0.32940	0.06480	**0.35744**	2.50740	0.30000	**2.00775**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.06171**	0.32940	0.06480	**0.41592**	2.50740	0.30000	**1.58989**
	B->Y (RF)	0.01860	0.00100	**0.03744**	0.32940	0.06480	**0.42398**	2.50740	0.30000	**2.20242**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00239**	0.32940	0.06480	**0.00240**	2.50740	0.30000	**0.00120**
	B	0.01860	0.00100	**0.00250**	0.32940	0.06480	**0.00251**	2.50740	0.30000	**0.00616**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00518**	0.32940	0.06480	**0.00528**	2.50740	0.30000	**0.00488**
	B	0.01860	0.00100	**0.00520**	0.32940	0.06480	**0.00521**	2.50740	0.30000	**0.00687**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00502**	0.32940	**0.00603**	2.50740	**0.02022**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00268**	0.32940	**0.00370**	2.50740	**0.01758**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00502**	0.32940	**0.00603**	2.50740	**0.02022**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00268**	0.32940	**0.00370**	2.50740	**0.01758**

NAND2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_1	0.00268	0.00278	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	191.13100	647.87200	1521.53000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.02259**	0.32940	0.06480	**0.35303**	2.50740	0.30000	**2.00014**
	B->Y (FR)	0.01860	0.00100	**0.02611**	0.32940	0.06480	**0.35656**	2.50740	0.30000	**2.00534**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.02907**	0.32940	0.06480	**0.43095**	2.50740	0.30000	**2.33431**
	B->Y (RF)	0.01860	0.00100	**0.03380**	0.32940	0.06480	**0.42048**	2.50740	0.30000	**2.20200**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A	0.01860	0.00100	**0.00221**	0.32940	0.06480	**0.00245**	2.50740	0.30000	**0.00605**
	B	0.01860	0.00100	**0.00237**	0.32940	0.06480	**0.00234**	2.50740	0.30000	**0.00600**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A	0.01860	0.00100	**0.00284**	0.32940	0.06480	**0.00304**	2.50740	0.30000	**0.00576**
	B	0.01860	0.00100	**0.00495**	0.32940	0.06480	**0.00493**	2.50740	0.30000	**0.00700**

NAND3B1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand3b_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A_N	B	C	Y
sg13g2_nand3b_1	0.00209	0.00278	0.00281	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	221.57000	766.53900	2421.29000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.05418**	0.32940	0.06480	**0.31973**	2.50740	0.30000	**1.18858**
	B->Y (FR)	0.01860	0.00100	**0.02899**	0.32940	0.06480	**0.36075**	2.50740	0.30000	**2.00899**
	C->Y (FR)	0.01860	0.00100	**0.03169**	0.32940	0.06480	**0.36443**	2.50740	0.30000	**2.01315**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.07472**	0.32940	0.06480	**0.53976**	2.50740	0.30000	**2.12694**
	B->Y (RF)	0.01860	0.00100	**0.05598**	0.32940	0.06480	**0.55061**	2.50740	0.30000	**2.72660**
	C->Y (RF)	0.01860	0.00100	**0.06190**	0.32940	0.06480	**0.54168**	2.50740	0.30000	**2.57671**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00243**	0.32940	0.06480	**0.00236**	2.50740	0.30000	**0.00132**
	B	0.01860	0.00100	**0.00293**	0.32940	0.06480	**0.00293**	2.50740	0.30000	**0.00599**
	C	0.01860	0.00100	**0.00336**	0.32940	0.06480	**0.00321**	2.50740	0.30000	**0.00621**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00691**	0.32940	0.06480	**0.00694**	2.50740	0.30000	**0.00587**
	B	0.01860	0.00100	**0.00673**	0.32940	0.06480	**0.00661**	2.50740	0.30000	**0.00832**
	C	0.01860	0.00100	**0.00886**	0.32940	0.06480	**0.00875**	2.50740	0.30000	**0.01050**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00509**	0.32940	**0.00611**	2.50740	**0.02029**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00255**	0.32940	**0.00358**	2.50740	**0.01748**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00509**	0.32940	**0.00611**	2.50740	**0.02029**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00255**	0.32940	**0.00358**	2.50740	**0.01748**

NOR2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_1	0.00280	0.00268	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	407.92500	645.11200	982.68100

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.04174**	0.32940	0.06480	**0.52042**	2.50740	0.30000	**2.60100**
	B->Y (FR)	0.01860	0.00100	**0.03517**	0.32940	0.06480	**0.53738**	2.50740	0.30000	**2.79824**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.02465**	0.32940	0.06480	**0.33015**	2.50740	0.30000	**1.85917**
	B->Y (RF)	0.01860	0.00100	**0.02153**	0.32940	0.06480	**0.32633**	2.50740	0.30000	**1.85508**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A	0.01860	0.00100	**0.00544**	0.32940	0.06480	**0.00534**	2.50740	0.30000	**0.00771**
	B	0.01860	0.00100	**0.00277**	0.32940	0.06480	**0.00295**	2.50740	0.30000	**0.00543**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A	0.01860	0.00100	**0.00246**	0.32940	0.06480	**0.00229**	2.50740	0.30000	**0.00559**
	B	0.01860	0.00100	**0.00223**	0.32940	0.06480	**0.00238**	2.50740	0.30000	**0.00559**

NOR3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_1	0.00278	0.00273	0.00264	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	381.28600	743.99100	1273.85000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.07523**	0.32940	0.06480	**0.72567**	2.50740	0.30000	**3.30904**
	B->Y (FR)	0.01860	0.00100	**0.07036**	0.32940	0.06480	**0.73853**	2.50740	0.30000	**3.50973**
	C->Y (FR)	0.01860	0.00100	**0.05421**	0.32940	0.06480	**0.73770**	2.50740	0.30000	**3.62977**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.02791**	0.32940	0.06480	**0.33716**	2.50740	0.30000	**1.87005**
	B->Y (RF)	0.01860	0.00100	**0.02755**	0.32940	0.06480	**0.33385**	2.50740	0.30000	**1.86740**
	C->Y (RF)	0.01860	0.00100	**0.02384**	0.32940	0.06480	**0.32970**	2.50740	0.30000	**1.86017**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A	0.01860	0.00100	**0.00908**	0.32940	0.06480	**0.00891**	2.50740	0.30000	**0.01049**
	B	0.01860	0.00100	**0.00684**	0.32940	0.06480	**0.00667**	2.50740	0.30000	**0.00846**
	C	0.01860	0.00100	**0.00420**	0.32940	0.06480	**0.00431**	2.50740	0.30000	**0.00647**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A	0.01860	0.00100	**0.00322**	0.32940	0.06480	**0.00300**	2.50740	0.30000	**0.00593**
	B	0.01860	0.00100	**0.00290**	0.32940	0.06480	**0.00274**	2.50740	0.30000	**0.00547**
	C	0.01860	0.00100	**0.00240**	0.32940	0.06480	**0.00263**	2.50740	0.30000	**0.00526**

NOR4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor4_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_1	0.00276	0.00270	0.00234	0.00241	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	389.18300	724.66100	1561.86000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.11611**	0.32940	0.06480	**0.95262**	2.50740	0.30000	**4.12588**
	B->Y (FR)	0.01860	0.00100	**0.11170**	0.32940	0.06480	**0.95758**	2.50740	0.30000	**4.27098**
	C->Y (FR)	0.01860	0.00100	**0.09776**	0.32940	0.06480	**0.95564**	2.50740	0.30000	**4.41248**
	D->Y (FR)	0.01860	0.00100	**0.06994**	0.32940	0.06480	**0.94004**	2.50740	0.30000	**4.48754**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.02912**	0.32940	0.06480	**0.34228**	2.50740	0.30000	**1.87362**
	B->Y (RF)	0.01860	0.00100	**0.03012**	0.32940	0.06480	**0.33955**	2.50740	0.30000	**1.87536**
	C->Y (RF)	0.01860	0.00100	**0.02908**	0.32940	0.06480	**0.33569**	2.50740	0.30000	**1.86855**
	D->Y (RF)	0.01860	0.00100	**0.02500**	0.32940	0.06480	**0.33152**	2.50740	0.30000	**1.85706**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A	0.01860	0.00100	**0.01171**	0.32940	0.06480	**0.01150**	2.50740	0.30000	**0.01285**
	B	0.01860	0.00100	**0.00956**	0.32940	0.06480	**0.00934**	2.50740	0.30000	**0.01063**
	C	0.01860	0.00100	**0.00782**	0.32940	0.06480	**0.00760**	2.50740	0.30000	**0.00874**
	D	0.01860	0.00100	**0.00443**	0.32940	0.06480	**0.00447**	2.50740	0.30000	**0.00623**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A	0.01860	0.00100	**0.00403**	0.32940	0.06480	**0.00396**	2.50740	0.30000	**0.00592**
	B	0.01860	0.00100	**0.00378**	0.32940	0.06480	**0.00365**	2.50740	0.30000	**0.00618**
	C	0.01860	0.00100	**0.00243**	0.32940	0.06480	**0.00233**	2.50740	0.30000	**0.00477**
	D	0.01860	0.00100	**0.00027**	0.32940	0.06480	**0.00063**	2.50740	0.30000	**0.00250**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00006**	0.32940	**-0.00014**	2.50740	**-0.00019**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00032**	0.32940	**0.00033**	2.50740	**0.00034**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00006**	0.32940	**-0.00014**	2.50740	**-0.00019**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00032**	0.32940	**0.00033**	2.50740	**0.00034**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00008**	0.32940	**-0.00013**	2.50740	**-0.00018**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00027**	0.32940	**0.00028**	2.50740	**0.00029**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!A * C) + (!A * !C * D)	0.01860	**0.00008**	0.32940	**-0.00013**	2.50740	**-0.00018**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!A * C) + (!A * !C * D)	0.01860	**0.00027**	0.32940	**0.00028**	2.50740	**0.00029**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00078**	0.32940	**0.00079**	2.50740	**0.00080**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00022**	0.32940	**-0.00022**	2.50740	**-0.00022**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !D) + (!A * B * !D)	0.01860	**0.00078**	0.32940	**0.00079**	2.50740	**0.00080**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !D) + (!A * B * !D)	0.01860	**-0.00022**	0.32940	**-0.00022**	2.50740	**-0.00022**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00223**	0.32940	**0.00224**	2.50740	**0.00224**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00053**	0.32940	**0.00055**	2.50740	**0.00057**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !C) + (!A * B * !C)	0.01860	**0.00223**	0.32940	**0.00224**	2.50740	**0.00224**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00053**	0.32940	**0.00055**	2.50740	**0.00057**

NP_ANT

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

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00111

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	5.54763	5.54763	5.54763

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**-0.00043**	0.32940	**-0.00044**	2.50740	**-0.00045**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00044**	0.32940	**0.00045**	2.50740	**0.00045**

OR2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or2_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_1	0.00212	0.00208	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	509.17300	819.34300	1038.51000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.05582**	0.32940	0.06480	**0.33366**	2.50740	0.30000	**1.20905**
	B->X (RR)	0.01860	0.00100	**0.05128**	0.32940	0.06480	**0.31935**	2.50740	0.30000	**1.16210**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.08941**	0.32940	0.06480	**0.34220**	2.50740	0.30000	**1.15664**
	B->X (FF)	0.01860	0.00100	**0.08319**	0.32940	0.06480	**0.35040**	2.50740	0.30000	**1.19769**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A	0.01860	0.00100	**0.00723**	0.32940	0.06480	**0.00798**	2.50740	0.30000	**0.01948**
	B	0.01860	0.00100	**0.00721**	0.32940	0.06480	**0.00789**	2.50740	0.30000	**0.01982**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A	0.01860	0.00100	**0.00947**	0.32940	0.06480	**0.00989**	2.50740	0.30000	**0.02115**
	B	0.01860	0.00100	**0.00752**	0.32940	0.06480	**0.00838**	2.50740	0.30000	**0.02034**

OR3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or3_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_1	0.00233	0.00229	0.00222	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	530.86200	880.61900	1337.96000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.06524**	0.32940	0.06480	**0.35861**	2.50740	0.30000	**1.28519**
	B->X (RR)	0.01860	0.00100	**0.06194**	0.32940	0.06480	**0.34731**	2.50740	0.30000	**1.23699**
	C->X (RR)	0.01860	0.00100	**0.05589**	0.32940	0.06480	**0.33139**	2.50740	0.30000	**1.18234**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.12856**	0.32940	0.06480	**0.38489**	2.50740	0.30000	**1.17974**
	B->X (FF)	0.01860	0.00100	**0.12312**	0.32940	0.06480	**0.39115**	2.50740	0.30000	**1.23794**
	C->X (FF)	0.01860	0.00100	**0.10833**	0.32940	0.06480	**0.38817**	2.50740	0.30000	**1.25208**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A	0.01860	0.00100	**0.00798**	0.32940	0.06480	**0.00844**	2.50740	0.30000	**0.02082**
	B	0.01860	0.00100	**0.00757**	0.32940	0.06480	**0.00815**	2.50740	0.30000	**0.01984**
	C	0.01860	0.00100	**0.00732**	0.32940	0.06480	**0.00793**	2.50740	0.30000	**0.01870**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A	0.01860	0.00100	**0.01337**	0.32940	0.06480	**0.01333**	2.50740	0.30000	**0.02466**
	B	0.01860	0.00100	**0.01137**	0.32940	0.06480	**0.01155**	2.50740	0.30000	**0.02368**
	C	0.01860	0.00100	**0.00909**	0.32940	0.06480	**0.00972**	2.50740	0.30000	**0.02271**

OR4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_1	0.00232	0.00226	0.00194	0.00201	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	532.49900	866.55400	1594.51000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.06811**	0.32940	0.06480	**0.37050**	2.50740	0.30000	**1.31063**
	B->X (RR)	0.01860	0.00100	**0.06723**	0.32940	0.06480	**0.36192**	2.50740	0.30000	**1.26602**
	C->X (RR)	0.01860	0.00100	**0.06332**	0.32940	0.06480	**0.34952**	2.50740	0.30000	**1.22219**
	D->X (RR)	0.01860	0.00100	**0.05689**	0.32940	0.06480	**0.33466**	2.50740	0.30000	**1.17389**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.17765**	0.32940	0.06480	**0.44719**	2.50740	0.30000	**1.23859**
	B->X (FF)	0.01860	0.00100	**0.17255**	0.32940	0.06480	**0.44836**	2.50740	0.30000	**1.30077**
	C->X (FF)	0.01860	0.00100	**0.15851**	0.32940	0.06480	**0.44313**	2.50740	0.30000	**1.34485**
	D->X (FF)	0.01860	0.00100	**0.13352**	0.32940	0.06480	**0.43102**	2.50740	0.30000	**1.34404**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A	0.01860	0.00100	**0.00879**	0.32940	0.06480	**0.00926**	2.50740	0.30000	**0.02153**
	B	0.01860	0.00100	**0.00839**	0.32940	0.06480	**0.00880**	2.50740	0.30000	**0.01910**
	C	0.01860	0.00100	**0.00720**	0.32940	0.06480	**0.00755**	2.50740	0.30000	**0.01808**
	D	0.01860	0.00100	**0.00550**	0.32940	0.06480	**0.00614**	2.50740	0.30000	**0.01635**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A	0.01860	0.00100	**0.01476**	0.32940	0.06480	**0.01430**	2.50740	0.30000	**0.02363**
	B	0.01860	0.00100	**0.01374**	0.32940	0.06480	**0.01331**	2.50740	0.30000	**0.02274**
	C	0.01860	0.00100	**0.01199**	0.32940	0.06480	**0.01163**	2.50740	0.30000	**0.02229**
	D	0.01860	0.00100	**0.00860**	0.32940	0.06480	**0.00880**	2.50740	0.30000	**0.01905**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00011**	0.32940	**-0.00028**	2.50740	**-0.00033**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00113**	0.32940	**0.00116**	2.50740	**0.00117**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!B * C) + (!B * !C * D)	0.01860	**-0.00011**	0.32940	**-0.00028**	2.50740	**-0.00033**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00113**	0.32940	**0.00116**	2.50740	**0.00117**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00009**	0.32940	**-0.00021**	2.50740	**-0.00021**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00019**	0.32940	**0.00021**	2.50740	**0.00021**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!A * C) + (!A * !C * D)	0.01860	**-0.00009**	0.32940	**-0.00021**	2.50740	**-0.00021**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!A * C) + (!A * !C * D)	0.01860	**0.00019**	0.32940	**0.00021**	2.50740	**0.00021**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00053**	0.32940	**0.00055**	2.50740	**0.00055**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00006**	0.32940	**-0.00006**	2.50740	**-0.00006**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !D) + (!A * B * !D)	0.01860	**0.00053**	0.32940	**0.00055**	2.50740	**0.00055**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !D) + (!A * B * !D)	0.01860	**-0.00006**	0.32940	**-0.00006**	2.50740	**-0.00006**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00186**	0.32940	**0.00188**	2.50740	**0.00188**

Passive power(pJ) for D falling :

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

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !C) + (!A * B * !C)	0.01860	**0.00186**	0.32940	**0.00188**	2.50740	**0.00188**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00105**	0.32940	**0.00106**	2.50740	**0.00108**

SDFRRS

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	D	SCD	SCE	RESET_B	SET_B	CLK	Q	Q_N
sg13g2_sdfbbp_1	0.00164	0.00182	0.00317	0.00155	0.00476	0.00288	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	4196.74000	5867.66000	7346.26000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.27950**	0.32940	0.06480	**0.54628**	2.50740	0.30000	**1.39653**
	SET_B->Q (FR)	0.01860	0.00100	**0.11758**	0.32940	0.06480	**0.41005**	2.50740	0.30000	**1.33260**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.23224**	0.32940	0.06480	**0.47920**	2.50740	0.30000	**1.25435**
	RESET_B->Q (FF)	0.01860	0.00100	**0.19389**	0.32940	0.06480	**0.46105**	2.50740	0.30000	**1.28523**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.27950**	0.32940	0.06480	**0.54628**	2.50740	0.30000	**1.39653**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.23224**	0.32940	0.06480	**0.47920**	2.50740	0.30000	**1.25435**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.19082**	0.32940	0.06480	**0.47960**	2.50740	0.30000	**1.35239**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.15155**	0.32940	0.06480	**0.46810**	2.50740	0.30000	**1.39293**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.23118**	0.32940	0.06480	**0.51412**	2.50740	0.30000	**1.27397**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.07758**	0.32940	0.06480	**0.37227**	2.50740	0.30000	**1.22421**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.19082**	0.32940	0.06480	**0.47960**	2.50740	0.30000	**1.35239**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.23118**	0.32940	0.06480	**0.51412**	2.50740	0.30000	**1.27397**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.08803**	1.26300	1.26300	**-0.25365**	2.50740	2.50740	**-0.34533**
	setup	CLK (R)	0.01860	0.01860	**0.12715**	1.26300	1.26300	**0.27793**	2.50740	2.50740	**0.37189**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.26269**
	setup	CLK (R)	0.01860	0.01860	**0.16138**	1.26300	1.26300	**0.26984**	2.50740	2.50740	**0.36009**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.11492**	1.26300	1.26300	**-0.30761**	2.50740	2.50740	**-0.41617**
	setup	CLK (R)	0.01860	0.01860	**0.15649**	1.26300	1.26300	**0.32650**	2.50740	2.50740	**0.43683**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.12715**	1.26300	1.26300	**-0.21047**	2.50740	2.50740	**-0.27449**
	setup	CLK (R)	0.01860	0.01860	**0.19562**	1.26300	1.26300	**0.28333**	2.50740	2.50740	**0.36894**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.29412**	2.50740	2.50740	**-0.40436**
	setup	CLK (R)	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.31571**	2.50740	2.50740	**0.42797**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.14841**	2.50740	2.50740	**-0.18890**
	setup	CLK (R)	0.01860	0.01860	**0.16383**	1.26300	1.26300	**0.22396**	2.50740	2.50740	**0.28925**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.13762**	2.50740	2.50740	**0.17119**
	removal	CLK (R)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.10254**	2.50740	2.50740	**-0.12987**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.03423**	1.26300	1.26300	**0.21047**	2.50740	2.50740	**0.55784**
	removal	CLK (R)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.07555**	2.50740	2.50740	**0.07084**
	hold	RESET_B (R)	0.01860	0.01860	**-0.07336**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.25973**
	setup	RESET_B (R)	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.32762**

Min Pulse Width (ns) for SET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_sdfbbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01237**	0.32940	0.06480	**0.01272**	2.50740	0.30000	**0.01506**
	SET_B	0.01860	0.00100	**0.03681**	0.32940	0.06480	**0.09614**	2.50740	0.30000	**0.33785**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01233**	0.32940	0.06480	**0.01248**	2.50740	0.30000	**0.01309**
	RESET_B	0.01860	0.00100	**0.04194**	0.32940	0.06480	**0.10057**	2.50740	0.30000	**0.32529**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01237**	0.32940	0.06480	**0.01272**	2.50740	0.30000	**0.01506**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01233**	0.32940	0.06480	**0.01248**	2.50740	0.30000	**0.01309**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01234**	0.32940	0.06480	**0.01264**	2.50740	0.30000	**0.01450**
	RESET_B	0.01860	0.00100	**0.04194**	0.32940	0.06480	**0.10089**	2.50740	0.30000	**0.32884**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01237**	0.32940	0.06480	**0.01261**	2.50740	0.30000	**0.01285**
	SET_B	0.01860	0.00100	**0.03677**	0.32940	0.06480	**0.09584**	2.50740	0.30000	**0.33643**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01234**	0.32940	0.06480	**0.01264**	2.50740	0.30000	**0.01450**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01237**	0.32940	0.06480	**0.01261**	2.50740	0.30000	**0.01285**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00697**	0.32940	**0.00721**	2.50740	**0.01469**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00580**	0.32940	**0.00601**	2.50740	**0.01341**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.01272**	0.32940	**0.01292**	2.50740	**0.02151**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00697**	0.32940	**0.00721**	2.50740	**0.01469**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.01367**	0.32940	**0.01383**	2.50740	**0.02240**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00580**	0.32940	**0.00601**	2.50740	**0.01341**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00907**	0.32940	**0.00916**	2.50740	**0.01570**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00991**	0.32940	**0.00992**	2.50740	**0.01660**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01482**	0.32940	**0.01485**	2.50740	**0.02228**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00907**	0.32940	**0.00916**	2.50740	**0.01570**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01831**	0.32940	**0.01792**	2.50740	**0.02574**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00991**	0.32940	**0.00992**	2.50740	**0.01660**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01505**	0.32940	**0.01613**	2.50740	**0.03536**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01725**	0.32940	**0.01792**	2.50740	**0.02809**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01723**	0.32940	**0.01781**	2.50740	**0.02845**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02248**	0.32940	**0.02217**	2.50740	**0.03268**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01505**	0.32940	**0.01613**	2.50740	**0.03536**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00927**	0.32940	**0.01033**	2.50740	**0.02851**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01725**	0.32940	**0.01792**	2.50740	**0.02809**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01923**	0.32940	**0.02844**	2.50740	**0.03868**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00414**	0.32940	**0.02958**	2.50740	**0.05002**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00951**	0.32940	**0.01046**	2.50740	**0.02777**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01369**	0.32940	**0.01487**	2.50740	**0.03572**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01659**	0.32940	**0.01802**	2.50740	**0.03921**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01358**	0.32940	**0.01481**	2.50740	**0.03551**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01815**	0.32940	**0.01936**	2.50740	**0.03998**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01345**	0.32940	**0.01459**	2.50740	**0.03547**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01358**	0.32940	**0.01482**	2.50740	**0.03551**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01369**	0.32940	**0.01487**	2.50740	**0.03572**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01342**	0.32940	**0.01458**	2.50740	**0.03546**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01129**	0.32940	**0.01254**	2.50740	**0.03321**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.02154**	0.32940	**0.02271**	2.50740	**0.04394**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01659**	0.32940	**0.01802**	2.50740	**0.03921**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.02412**	0.32940	**0.02547**	2.50740	**0.04679**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01186**	0.32940	**0.01319**	2.50740	**0.03371**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01129**	0.32940	**0.01255**	2.50740	**0.03321**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01184**	0.32940	**0.01318**	2.50740	**0.03370**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01182**	0.32940	**0.01316**	2.50740	**0.03368**

TIE0

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

Footprint

Cell Name	Area
sg13g2_tielo	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_LO
sg13g2_tielo	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tielo	57.43060	57.43060	57.43060

TIE1

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

Footprint

Cell Name	Area
sg13g2_tiehi	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_HI
sg13g2_tiehi	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tiehi	55.09780	55.09780	55.09780

XNOR2_1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xnor2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_xnor2_1	0.00511	0.00450	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	436.45000	1366.71000	1931.98000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (RR)	0.01860	0.00100	**0.07104**	0.32940	0.06480	**0.33829**	2.50740	0.30000	**1.21257**
	A->Y (FR)	0.01860	0.00100	**0.05425**	0.32940	0.06480	**0.53543**	2.50740	0.30000	**2.61345**
	B->Y (RR)	0.01860	0.00100	**0.06565**	0.32940	0.06480	**0.33599**	2.50740	0.30000	**1.21796**
	B->Y (FR)	0.01860	0.00100	**0.04778**	0.32940	0.06480	**0.55158**	2.50740	0.30000	**2.81190**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (FF)	0.01860	0.00100	**0.06991**	0.32940	0.06480	**0.43811**	2.50740	0.30000	**1.65012**
	A->Y (RF)	0.01860	0.00100	**0.04654**	0.32940	0.06480	**0.43680**	2.50740	0.30000	**2.22156**
	B->Y (FF)	0.01860	0.00100	**0.07075**	0.32940	0.06480	**0.42553**	2.50740	0.30000	**1.61942**
	B->Y (RF)	0.01860	0.00100	**0.03933**	0.32940	0.06480	**0.42800**	2.50740	0.30000	**2.20703**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00936**	0.32940	0.06480	**0.00996**	2.50740	0.30000	**0.02203**
	B	0.01860	0.00100	**0.00929**	0.32940	0.06480	**0.00984**	2.50740	0.30000	**0.02310**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00846**	0.32940	0.06480	**0.00955**	2.50740	0.30000	**0.02260**
	B	0.01860	0.00100	**0.00958**	0.32940	0.06480	**0.00906**	2.50740	0.30000	**0.02265**

XOR2_1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xor2_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00537	0.00460	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	1079.39000	1356.14000	1948.49000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (RR)	0.01860	0.00100	**0.07229**	0.32940	0.06480	**0.54351**	2.50740	0.30000	**2.13940**
	A->X (FR)	0.01860	0.00100	**0.05980**	0.32940	0.06480	**0.54368**	2.50740	0.30000	**2.62410**
	B->X (RR)	0.01860	0.00100	**0.07568**	0.32940	0.06480	**0.52885**	2.50740	0.30000	**2.09418**
	B->X (FR)	0.01860	0.00100	**0.05123**	0.32940	0.06480	**0.53409**	2.50740	0.30000	**2.61154**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (FF)	0.01860	0.00100	**0.08593**	0.32940	0.06480	**0.33163**	2.50740	0.30000	**1.11221**
	A->X (RF)	0.01860	0.00100	**0.04467**	0.32940	0.06480	**0.43382**	2.50740	0.30000	**2.21230**
	B->X (FF)	0.01860	0.00100	**0.07909**	0.32940	0.06480	**0.33669**	2.50740	0.30000	**1.14324**
	B->X (RF)	0.01860	0.00100	**0.03891**	0.32940	0.06480	**0.44304**	2.50740	0.30000	**2.34668**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.00833**	0.32940	0.06480	**0.00919**	2.50740	0.30000	**0.02150**
	B	0.01860	0.00100	**0.00897**	0.32940	0.06480	**0.00837**	2.50740	0.30000	**0.02160**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.01078**	0.32940	0.06480	**0.01121**	2.50740	0.30000	**0.02326**
	B	0.01860	0.00100	**0.00998**	0.32940	0.06480	**0.01074**	2.50740	0.30000	**0.02356**