sg13g2_stdcell_slow_1p08V_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_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00222	0.00213	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	514.63100	635.39100	854.90800

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	**0.09876**	0.32940	0.06480	**0.50121**	2.50740	0.30000	**1.82446**
	B->X (RR)	0.01860	0.00100	**0.10619**	0.32940	0.06480	**0.50992**	2.50740	0.30000	**1.85910**

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	**0.08139**	0.32940	0.06480	**0.44905**	2.50740	0.30000	**1.59868**
	B->X (FF)	0.01860	0.00100	**0.08888**	0.32940	0.06480	**0.46526**	2.50740	0.30000	**1.65062**

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	**0.00508**	0.32940	0.06480	**0.00499**	2.50740	0.30000	**0.00685**
	B	0.01860	0.00100	**0.00608**	0.32940	0.06480	**0.00592**	2.50740	0.30000	**0.00757**

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	**0.00447**	0.32940	0.06480	**0.00439**	2.50740	0.30000	**0.00643**
	B	0.01860	0.00100	**0.00465**	0.32940	0.06480	**0.00455**	2.50740	0.30000	**0.00645**

AND3

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00222	0.00209	0.00211	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	508.20100	629.01000	1214.64000

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	**0.13839**	0.32940	0.06480	**0.55181**	2.50740	0.30000	**1.92536**
	B->X (RR)	0.01860	0.00100	**0.15255**	0.32940	0.06480	**0.56730**	2.50740	0.30000	**1.96852**
	C->X (RR)	0.01860	0.00100	**0.15889**	0.32940	0.06480	**0.56930**	2.50740	0.30000	**1.94940**

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	**0.08763**	0.32940	0.06480	**0.46160**	2.50740	0.30000	**1.63139**
	B->X (FF)	0.01860	0.00100	**0.09550**	0.32940	0.06480	**0.47755**	2.50740	0.30000	**1.67789**
	C->X (FF)	0.01860	0.00100	**0.10066**	0.32940	0.06480	**0.48954**	2.50740	0.30000	**1.71834**

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	**0.00585**	0.32940	0.06480	**0.00570**	2.50740	0.30000	**0.00766**
	B	0.01860	0.00100	**0.00682**	0.32940	0.06480	**0.00667**	2.50740	0.30000	**0.00810**
	C	0.01860	0.00100	**0.00778**	0.32940	0.06480	**0.00764**	2.50740	0.30000	**0.00857**

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	**0.00448**	0.32940	0.06480	**0.00434**	2.50740	0.30000	**0.00591**
	B	0.01860	0.00100	**0.00473**	0.32940	0.06480	**0.00461**	2.50740	0.30000	**0.00600**
	C	0.01860	0.00100	**0.00488**	0.32940	0.06480	**0.00481**	2.50740	0.30000	**0.00608**

AND4

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00192	0.00185	0.00210	0.00211	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	508.39400	599.23900	1574.52000

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	**0.18057**	0.32940	0.06480	**0.60393**	2.50740	0.30000	**2.02012**
	B->X (RR)	0.01860	0.00100	**0.20066**	0.32940	0.06480	**0.62471**	2.50740	0.30000	**2.05643**
	C->X (RR)	0.01860	0.00100	**0.21221**	0.32940	0.06480	**0.63245**	2.50740	0.30000	**2.04782**
	D->X (RR)	0.01860	0.00100	**0.21843**	0.32940	0.06480	**0.63930**	2.50740	0.30000	**2.03765**

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	**0.09339**	0.32940	0.06480	**0.47050**	2.50740	0.30000	**1.65035**
	B->X (FF)	0.01860	0.00100	**0.10101**	0.32940	0.06480	**0.48533**	2.50740	0.30000	**1.69257**
	C->X (FF)	0.01860	0.00100	**0.10646**	0.32940	0.06480	**0.49625**	2.50740	0.30000	**1.73068**
	D->X (FF)	0.01860	0.00100	**0.11054**	0.32940	0.06480	**0.50611**	2.50740	0.30000	**1.76709**

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	**0.00666**	0.32940	0.06480	**0.00647**	2.50740	0.30000	**0.00829**
	B	0.01860	0.00100	**0.00792**	0.32940	0.06480	**0.00776**	2.50740	0.30000	**0.00870**
	C	0.01860	0.00100	**0.00845**	0.32940	0.06480	**0.00828**	2.50740	0.30000	**0.00873**
	D	0.01860	0.00100	**0.00844**	0.32940	0.06480	**0.00835**	2.50740	0.30000	**0.00881**

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	**0.00409**	0.32940	0.06480	**0.00389**	2.50740	0.30000	**0.00529**
	B	0.01860	0.00100	**0.00427**	0.32940	0.06480	**0.00414**	2.50740	0.30000	**0.00531**
	C	0.01860	0.00100	**0.00499**	0.32940	0.06480	**0.00491**	2.50740	0.30000	**0.00623**
	D	0.01860	0.00100	**0.00516**	0.32940	0.06480	**0.00510**	2.50740	0.30000	**0.00636**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00026**	0.32940	**-0.00027**	2.50740	**-0.00026**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00076**	0.32940	**0.00078**	2.50740	**0.00078**

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	**-0.00026**	0.32940	**-0.00027**	2.50740	**-0.00026**

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	**0.00076**	0.32940	**0.00078**	2.50740	**0.00078**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00047**	0.32940	**-0.00048**	2.50740	**-0.00048**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00067**	0.32940	**0.00069**	2.50740	**0.00069**

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	**-0.00047**	0.32940	**-0.00048**	2.50740	**-0.00048**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * C * !D) + (A * !C)	0.01860	**0.00067**	0.32940	**0.00069**	2.50740	**0.00069**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00003**	0.32940	**-0.00001**	2.50740	**-0.00000**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00006**	0.32940	**0.00001**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * !B * D) + (!A * D)	0.01860	**-0.00003**	0.32940	**-0.00001**	2.50740	**-0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * !B * D) + (!A * D)	0.01860	**0.00006**	0.32940	**0.00001**	2.50740	**0.00000**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00092**	0.32940	**0.00095**	2.50740	**0.00094**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00007**	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	**0.00092**	0.32940	**0.00095**	2.50740	**0.00094**

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	**0.00007**	0.32940	**0.00001**	2.50740	**-0.00001**

AO21

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00230	0.00239	0.00214	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	412.49300	650.18700	1047.70000

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_a21o_1	A1->X (RR)	0.01860	0.00100	**0.12216**	0.32940	0.06480	**0.53960**	2.50740	0.30000	**1.93510**
	A2->X (RR)	0.01860	0.00100	**0.12845**	0.32940	0.06480	**0.54380**	2.50740	0.30000	**1.95857**
	B1->X (RR)	0.01860	0.00100	**0.07575**	0.32940	0.06480	**0.48485**	2.50740	0.30000	**1.83741**

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	**0.13651**	0.32940	0.06480	**0.50882**	2.50740	0.30000	**1.67096**
	A2->X (FF)	0.01860	0.00100	**0.14882**	0.32940	0.06480	**0.52780**	2.50740	0.30000	**1.72026**
	B1->X (FF)	0.01860	0.00100	**0.13404**	0.32940	0.06480	**0.51229**	2.50740	0.30000	**1.70387**

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	**0.07575**	0.32940	0.06480	**0.48485**	2.50740	0.30000	**1.83741**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.07062**	0.32940	0.06480	**0.47007**	2.50740	0.30000	**1.77340**

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	**0.13404**	0.32940	0.06480	**0.51229**	2.50740	0.30000	**1.70387**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.11945**	0.32940	0.06480	**0.49059**	2.50740	0.30000	**1.64894**

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	**0.00582**	0.32940	0.06480	**0.00560**	2.50740	0.30000	**0.00759**
	A2	0.01860	0.00100	**0.00683**	0.32940	0.06480	**0.00669**	2.50740	0.30000	**0.00802**
	B1	0.01860	0.00100	**0.00462**	0.32940	0.06480	**0.00443**	2.50740	0.30000	**0.00637**

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	**0.00624**	0.32940	0.06480	**0.00617**	2.50740	0.30000	**0.00703**
	A2	0.01860	0.00100	**0.00627**	0.32940	0.06480	**0.00635**	2.50740	0.30000	**0.00700**
	B1	0.01860	0.00100	**0.00434**	0.32940	0.06480	**0.00435**	2.50740	0.30000	**0.00641**

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	**0.00567**	0.32940	0.06480	**0.00552**	2.50740	0.30000	**0.00811**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00462**	0.32940	0.06480	**0.00443**	2.50740	0.30000	**0.00637**

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	**0.00445**	0.32940	0.06480	**0.00435**	2.50740	0.30000	**0.00611**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00434**	0.32940	0.06480	**0.00435**	2.50740	0.30000	**0.00641**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**-0.00015**	0.32940	**-0.00013**	2.50740	**-0.00013**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00020**	0.32940	**0.00019**	2.50740	**0.00019**

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	**0.00009**	0.32940	**-0.00003**	2.50740	**-0.00007**
	(!A2 * B1)	0.01860	**-0.00015**	0.32940	**-0.00013**	2.50740	**-0.00013**

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	**0.00020**	0.32940	**0.00020**	2.50740	**0.00020**
	(!A2 * B1)	0.01860	**0.00020**	0.32940	**0.00019**	2.50740	**0.00019**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**-0.00009**	0.32940	**-0.00009**	2.50740	**-0.00009**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00014**	0.32940	**0.00015**	2.50740	**0.00015**

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	**0.00014**	0.32940	**0.00002**	2.50740	**-0.00002**
	(!A1 * B1)	0.01860	**-0.00009**	0.32940	**-0.00009**	2.50740	**-0.00009**

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	**0.00016**	0.32940	**0.00016**	2.50740	**0.00016**
	(!A1 * B1)	0.01860	**0.00014**	0.32940	**0.00015**	2.50740	**0.00015**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00020**	0.32940	**0.00023**	2.50740	**0.00023**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00064**	0.32940	**0.00063**	2.50740	**0.00064**

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	**0.00020**	0.32940	**0.00023**	2.50740	**0.00023**

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	**0.00064**	0.32940	**0.00063**	2.50740	**0.00064**

BTLx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00523	0.01395	2.40000
sg13g2_ebufn_4	0.00272	0.00850	1.20000
sg13g2_ebufn_2	0.00231	0.00519	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	1655.50000	2491.37000	4310.14000
sg13g2_ebufn_4	1066.80000	1399.03000	2222.84000
sg13g2_ebufn_2	765.92500	931.97500	1199.63000

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	0.01618	**0.09453**	0.32940	0.53358	**0.85444**	2.50740	2.41518	**3.40756**
	TE_B->Z (RR)	0.01860	0.01618	**0.09290**	0.32940	0.53358	**0.22355**	2.50740	2.41518	**0.55624**
	TE_B->Z (FR)	0.01860	0.01618	**0.05047**	0.32940	0.53358	**0.76707**	2.50740	2.41518	**3.75935**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.00863	**0.09774**	0.32940	0.26683	**0.85443**	2.50740	1.20763	**3.40564**
	TE_B->Z (RR)	0.01860	0.00863	**0.07407**	0.32940	0.26683	**0.17900**	2.50740	1.20763	**0.40395**
	TE_B->Z (FR)	0.01860	0.00863	**0.05141**	0.32940	0.26683	**0.76517**	2.50740	1.20763	**3.74850**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00485	**0.08425**	0.32940	0.13345	**0.81431**	2.50740	0.60385	**3.29276**
	TE_B->Z (RR)	0.01860	0.00485	**0.06432**	0.32940	0.13345	**0.15515**	2.50740	0.60385	**0.33606**
	TE_B->Z (FR)	0.01860	0.00485	**0.05115**	0.32940	0.13345	**0.76434**	2.50740	0.60385	**3.74840**

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	0.02930	**0.12955**	0.32940	0.54670	**0.72852**	2.50740	2.42830	**2.73535**
	TE_B->Z (RF)	0.01860	0.02930	**0.06430**	0.32940	0.54670	**-0.15613**	2.50740	2.42830	**-1.84249**
	TE_B->Z (FF)	0.01860	0.02930	**0.14462**	0.32940	0.54670	**0.94789**	2.50740	2.42830	**3.68738**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01542	**0.13337**	0.32940	0.27362	**0.73182**	2.50740	1.21442	**2.74269**
	TE_B->Z (RF)	0.01860	0.01542	**0.04696**	0.32940	0.27362	**-0.15518**	2.50740	1.21442	**-1.84093**
	TE_B->Z (FF)	0.01860	0.01542	**0.10973**	0.32940	0.27362	**0.88278**	2.50740	1.21442	**3.49078**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00839	**0.09989**	0.32940	0.13699	**0.67590**	2.50740	0.60739	**2.57654**
	TE_B->Z (RF)	0.01860	0.00839	**0.03378**	0.32940	0.13699	**-0.18019**	2.50740	0.60739	**-1.86686**
	TE_B->Z (FF)	0.01860	0.00839	**0.09228**	0.32940	0.13699	**0.83505**	2.50740	0.60739	**3.36396**

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	0.01618	**0.01354**	0.32940	0.53358	**0.01951**	2.50740	2.41518	**0.01825**
	TE_B	0.01860	0.01618	**0.00792**	0.32940	0.53358	**0.00673**	2.50740	2.41518	**0.00415**
sg13g2_ebufn_4	A	0.01860	0.00863	**0.00692**	0.32940	0.26683	**0.00964**	2.50740	1.20763	**0.00795**
	TE_B	0.01860	0.00863	**0.00396**	0.32940	0.26683	**0.00316**	2.50740	1.20763	**0.00147**
sg13g2_ebufn_2	A	0.01860	0.00485	**0.00369**	0.32940	0.13345	**0.00494**	2.50740	0.60385	**0.00469**
	TE_B	0.01860	0.00485	**0.00195**	0.32940	0.13345	**0.00155**	2.50740	0.60385	**0.00097**

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	0.02930	**0.02609**	0.32940	0.54670	**0.02617**	2.50740	2.42830	**0.02110**
	TE_B	0.01860	0.02930	**0.00895**	0.32940	0.54670	**0.07412**	2.50740	2.42830	**0.31215**
sg13g2_ebufn_4	A	0.01860	0.01542	**0.01309**	0.32940	0.27362	**0.01303**	2.50740	1.21442	**0.01068**
	TE_B	0.01860	0.01542	**0.00455**	0.32940	0.27362	**0.03707**	2.50740	1.21442	**0.15623**
sg13g2_ebufn_2	A	0.01860	0.00839	**0.00652**	0.32940	0.13699	**0.00654**	2.50740	0.60739	**0.00487**
	TE_B	0.01860	0.00839	**0.00231**	0.32940	0.13699	**0.01850**	2.50740	0.60739	**0.07825**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01888**	0.32940	**0.01848**	2.50740	**0.02470**
sg13g2_ebufn_4	0.01860	**0.00967**	0.32940	**0.00948**	2.50740	**0.01252**
sg13g2_ebufn_2	0.01860	**0.00530**	0.32940	**0.00517**	2.50740	**0.00796**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.00759**	0.32940	**0.00738**	2.50740	**0.01318**
sg13g2_ebufn_4	0.01860	**0.00400**	0.32940	**0.00389**	2.50740	**0.00675**
sg13g2_ebufn_2	0.01860	**0.00263**	0.32940	**0.00257**	2.50740	**0.00523**

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	**-0.00275**	0.32940	**-0.00393**	2.50740	**-0.00187**
sg13g2_ebufn_4	0.01860	**-0.00044**	0.32940	**-0.00119**	2.50740	**0.00155**
sg13g2_ebufn_2	0.01860	**0.00030**	0.32940	**-0.00015**	2.50740	**0.00250**

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	**0.03604**	0.32940	**0.03600**	2.50740	**0.03876**
sg13g2_ebufn_4	0.01860	**0.01874**	0.32940	**0.01883**	2.50740	**0.02173**
sg13g2_ebufn_2	0.01860	**0.00997**	0.32940	**0.01005**	2.50740	**0.01268**

BUx

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_16	0.01567	4.80000
sg13g2_buf_8	0.00783	2.40000
sg13g2_buf_4	0.00333	1.20000
sg13g2_buf_2	0.00230	0.60000
sg13g2_buf_1	0.00197	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	5028.75000	6741.44000	8454.12000
sg13g2_buf_8	2514.39000	3370.79000	4227.19000
sg13g2_buf_4	1257.50000	1653.20000	2048.91000
sg13g2_buf_2	697.49800	882.31900	1067.14000
sg13g2_buf_1	494.45700	531.74800	569.03900

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	**0.08147**	0.32940	1.03680	**0.51080**	2.50740	4.80000	**1.90512**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.08046**	0.32940	0.51840	**0.50929**	2.50740	2.40000	**1.90262**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.10413**	0.32940	0.25920	**0.54927**	2.50740	1.20000	**2.04418**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.08034**	0.32940	0.12960	**0.50330**	2.50740	0.60000	**1.89314**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.07141**	0.32940	0.06480	**0.47569**	2.50740	0.30000	**1.80408**

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	**0.09220**	0.32940	1.03680	**0.48855**	2.50740	4.80000	**1.70716**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.09105**	0.32940	0.51840	**0.48761**	2.50740	2.40000	**1.70793**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.08936**	0.32940	0.25920	**0.48343**	2.50740	1.20000	**1.67767**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.08765**	0.32940	0.12960	**0.47277**	2.50740	0.60000	**1.66033**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.07671**	0.32940	0.06480	**0.44035**	2.50740	0.30000	**1.56346**

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	**0.05940**	0.32940	1.03680	**0.05958**	2.50740	4.80000	**0.07602**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.02878**	0.32940	0.51840	**0.02904**	2.50740	2.40000	**0.03689**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01384**	0.32940	0.25920	**0.01367**	2.50740	1.20000	**0.01594**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00754**	0.32940	0.12960	**0.00749**	2.50740	0.60000	**0.00980**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00448**	0.32940	0.06480	**0.00443**	2.50740	0.30000	**0.00607**

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	**0.05594**	0.32940	1.03680	**0.05788**	2.50740	4.80000	**0.06864**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.02758**	0.32940	0.51840	**0.02860**	2.50740	2.40000	**0.03495**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01380**	0.32940	0.25920	**0.01434**	2.50740	1.20000	**0.01473**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00731**	0.32940	0.12960	**0.00740**	2.50740	0.60000	**0.00910**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00455**	0.32940	0.06480	**0.00457**	2.50740	0.30000	**0.00582**

DECAPx

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

Footprint

Cell Name	Area
sg13g2_decap_4	7.25760
sg13g2_decap_8	12.70080

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_decap_4	98.65020	98.65020	98.65020
sg13g2_decap_8	197.29500	197.29500	197.29500

DFFRRx

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

Truth Table

INPUT			OUTPUT	
D	RESET_B	CLK	Q	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	0.00126	0.00454	0.00254	0.60000	0.60000
sg13g2_dfrbp_1	0.00133	0.00506	0.00238	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	2762.66000	3213.97000	3740.65000
sg13g2_dfrbp_1	2077.25000	2501.99000	2984.47000

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_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.36185**	0.32940	0.12960	**0.75538**	2.50740	0.60000	**2.14456**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.28156**	0.32940	0.06480	**0.68170**	2.50740	0.30000	**2.04218**

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	**0.31371**	0.32940	0.12960	**0.67993**	2.50740	0.60000	**1.87371**
	RESET_B->Q (FF)	0.01860	0.00100	**0.42390**	0.32940	0.12960	**0.81734**	2.50740	0.60000	**2.24078**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.26967**	0.32940	0.06480	**0.63511**	2.50740	0.30000	**1.81054**
	RESET_B->Q (FF)	0.01860	0.00100	**0.36795**	0.32940	0.06480	**0.76042**	2.50740	0.30000	**2.15503**

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	**0.20643**	0.32940	0.12960	**0.66426**	2.50740	0.60000	**2.00775**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.31921**	0.32940	0.12960	**0.79889**	2.50740	0.60000	**2.37394**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.20439**	0.32940	0.06480	**0.64395**	2.50740	0.30000	**1.97329**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.30354**	0.32940	0.06480	**0.76611**	2.50740	0.30000	**2.31834**

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	**0.23168**	0.32940	0.12960	**0.69242**	2.50740	0.60000	**1.92671**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.20869**	0.32940	0.06480	**0.63272**	2.50740	0.30000	**1.84959**

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	**-0.06847**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.36599**
	setup	CLK (R)	0.01860	0.01860	**0.20540**	1.26300	1.26300	**0.40475**	2.50740	2.50740	**0.51652**
sg13g2_dfrbp_1	hold	CLK (R)	0.01860	0.01860	**-0.07336**	1.26300	1.26300	**-0.28873**	2.50740	2.50740	**-0.39846**
	setup	CLK (R)	0.01860	0.01860	**0.19562**	1.26300	1.26300	**0.40745**	2.50740	2.50740	**0.53128**

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	**-0.02934**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.27449**
	setup	CLK (R)	0.01860	0.01860	**0.19317**	1.26300	1.26300	**0.35888**	2.50740	2.50740	**0.48405**
sg13g2_dfrbp_1	hold	CLK (R)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.16730**	2.50740	2.50740	**-0.27154**
	setup	CLK (R)	0.01860	0.01860	**0.18339**	1.26300	1.26300	**0.35349**	2.50740	2.50740	**0.48405**

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	**0.21518**	1.26300	1.26300	**0.42634**	2.50740	2.50740	**0.58145**
	removal	CLK (R)	0.01860	0.01860	**-0.16872**	1.26300	1.26300	**-0.38856**	2.50740	2.50740	**-0.54013**
sg13g2_dfrbp_1	recovery	CLK (R)	0.01860	0.01860	**0.20784**	1.26300	1.26300	**0.43174**	2.50740	2.50740	**0.59621**
	removal	CLK (R)	0.01860	0.01860	**-0.15649**	1.26300	1.26300	**-0.38587**	2.50740	2.50740	**-0.54013**

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	**0.01954**	0.32940	0.12960	**0.09568**	2.50740	0.60000	**0.37046**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.01436**	0.32940	0.06480	**0.05200**	2.50740	0.30000	**0.18865**

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	**0.02004**	0.32940	0.12960	**0.09611**	2.50740	0.60000	**0.36917**
	RESET_B	0.01860	0.00100	**0.02156**	0.32940	0.12960	**0.09724**	2.50740	0.60000	**0.37070**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.01379**	0.32940	0.06480	**0.05146**	2.50740	0.30000	**0.18779**
	RESET_B	0.01860	0.00100	**0.01493**	0.32940	0.06480	**0.05225**	2.50740	0.30000	**0.18941**

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	**0.02006**	0.32940	0.12960	**0.09649**	2.50740	0.60000	**0.37140**
	RESET_B	0.01860	0.00100	**0.02160**	0.32940	0.12960	**0.09764**	2.50740	0.60000	**0.37257**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.01379**	0.32940	0.06480	**0.05171**	2.50740	0.30000	**0.18911**
	RESET_B	0.01860	0.00100	**0.01492**	0.32940	0.06480	**0.05247**	2.50740	0.30000	**0.19060**

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	**0.01954**	0.32940	0.12960	**0.09528**	2.50740	0.60000	**0.36751**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.01434**	0.32940	0.06480	**0.05180**	2.50740	0.30000	**0.18808**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00134**	0.32940	**0.00126**	2.50740	**0.00244**
sg13g2_dfrbp_1	0.01860	**0.00138**	0.32940	**0.00130**	2.50740	**0.00247**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00123**	0.32940	**0.00113**	2.50740	**0.00227**
sg13g2_dfrbp_1	0.01860	**0.00131**	0.32940	**0.00121**	2.50740	**0.00234**

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	**0.00134**	0.32940	**0.00126**	2.50740	**0.00244**
	(!CLK * RESET_B)	0.01860	**0.00884**	0.32940	**0.00867**	2.50740	**0.00985**
	(!CLK * !RESET_B)	0.01860	**-0.00014**	0.32940	**-0.00015**	2.50740	**-0.00015**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00138**	0.32940	**0.00130**	2.50740	**0.00247**
	(!CLK * RESET_B)	0.01860	**0.00760**	0.32940	**0.00747**	2.50740	**0.00868**
	(!CLK * !RESET_B)	0.01860	**-0.00009**	0.32940	**-0.00010**	2.50740	**-0.00010**

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	**0.00123**	0.32940	**0.00113**	2.50740	**0.00227**
	(!CLK * RESET_B)	0.01860	**0.00712**	0.32940	**0.00694**	2.50740	**0.00815**
	(!CLK * !RESET_B)	0.01860	**0.00029**	0.32940	**0.00030**	2.50740	**0.00031**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00131**	0.32940	**0.00121**	2.50740	**0.00234**
	(!CLK * RESET_B)	0.01860	**0.00644**	0.32940	**0.00627**	2.50740	**0.00747**
	(!CLK * !RESET_B)	0.01860	**0.00027**	0.32940	**0.00028**	2.50740	**0.00028**

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	**0.00270**	0.32940	**0.00261**	2.50740	**0.00338**
sg13g2_dfrbp_1	0.01860	**0.00304**	0.32940	**0.00295**	2.50740	**0.00370**

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	**0.00744**	0.32940	**0.00703**	2.50740	**0.00813**
sg13g2_dfrbp_1	0.01860	**0.00647**	0.32940	**0.00604**	2.50740	**0.00719**

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	**0.00270**	0.32940	**0.00261**	2.50740	**0.00338**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00082**	0.32940	**0.00081**	2.50740	**0.00080**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01049**	0.32940	**0.01021**	2.50740	**0.01135**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00092**	0.32940	**0.00090**	2.50740	**0.00090**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00304**	0.32940	**0.00295**	2.50740	**0.00370**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00115**	0.32940	**0.00114**	2.50740	**0.00113**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00957**	0.32940	**0.00930**	2.50740	**0.01049**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00118**	0.32940	**0.00117**	2.50740	**0.00116**

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	**0.02863**	0.32940	**0.02793**	2.50740	**0.03059**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00024**	0.32940	**-0.00039**	2.50740	**-0.00045**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00744**	0.32940	**0.00703**	2.50740	**0.00813**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00044**	0.32940	**-0.00055**	2.50740	**-0.00059**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.02086**	0.32940	**0.02014**	2.50740	**0.02281**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00056**	0.32940	**-0.00071**	2.50740	**-0.00077**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00647**	0.32940	**0.00604**	2.50740	**0.00719**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00064**	0.32940	**-0.00077**	2.50740	**-0.00082**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00842**	0.32940	**0.00810**	2.50740	**0.01140**
sg13g2_dfrbp_1	0.01860	**0.00804**	0.32940	**0.00777**	2.50740	**0.01083**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01565**	0.32940	**0.01517**	2.50740	**0.01829**
sg13g2_dfrbp_1	0.01860	**0.01390**	0.32940	**0.01344**	2.50740	**0.01633**

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	**0.00842**	0.32940	**0.00810**	2.50740	**0.01140**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00865**	0.32940	**0.00835**	2.50740	**0.01162**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00818**	0.32940	**0.00788**	2.50740	**0.01115**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00856**	0.32940	**0.00825**	2.50740	**0.01153**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.00841**	0.32940	**0.00810**	2.50740	**0.01118**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00804**	0.32940	**0.00777**	2.50740	**0.01083**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00794**	0.32940	**0.00767**	2.50740	**0.01072**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00793**	0.32940	**0.00766**	2.50740	**0.01071**

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	**0.01565**	0.32940	**0.01517**	2.50740	**0.01829**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.01565**	0.32940	**0.01517**	2.50740	**0.01829**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00825**	0.32940	**0.00794**	2.50740	**0.01105**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00197**	0.32940	**0.03580**	2.50740	**0.03847**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00825**	0.32940	**0.00792**	2.50740	**0.01105**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00823**	0.32940	**0.00791**	2.50740	**0.01103**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01390**	0.32940	**0.01344**	2.50740	**0.01633**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.01390**	0.32940	**0.01344**	2.50740	**0.01633**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00780**	0.32940	**0.00750**	2.50740	**0.01038**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00179**	0.32940	**0.02854**	2.50740	**0.03105**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00775**	0.32940	**0.00745**	2.50740	**0.01033**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00777**	0.32940	**0.00747**	2.50740	**0.01035**

DLHQ

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00195	0.00200	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	1392.36000	1694.94000	2124.80000

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	**0.26040**	0.32940	0.06480	**0.66068**	2.50740	0.30000	**1.97055**
	GATE->Q (RR)	0.01860	0.00100	**0.22079**	0.32940	0.06480	**0.62067**	2.50740	0.30000	**1.92432**

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	**0.23155**	0.32940	0.06480	**0.59103**	2.50740	0.30000	**1.70078**
	GATE->Q (RF)	0.01860	0.00100	**0.23612**	0.32940	0.06480	**0.59987**	2.50740	0.30000	**1.72030**

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	**-0.13938**	1.26300	1.26300	**-0.33730**	2.50740	2.50740	**-0.42502**
	setup	GATE (F)	0.01860	0.01860	**0.15894**	1.26300	1.26300	**0.41555**	2.50740	2.50740	**0.55784**

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	**-0.05868**	1.26300	1.26300	**-0.03508**	2.50740	2.50740	**-0.00885**
	setup	GATE (F)	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.04857**	2.50740	2.50740	**0.02361**

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	**0.01109**	0.32940	0.06480	**0.01124**	2.50740	0.30000	**0.01090**
	GATE	0.01860	0.00100	**0.00888**	0.32940	0.06480	**0.00889**	2.50740	0.30000	**0.00886**

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	**0.01146**	0.32940	0.06480	**0.01169**	2.50740	0.30000	**0.01121**
	GATE	0.01860	0.00100	**0.00968**	0.32940	0.06480	**0.01004**	2.50740	0.30000	**0.00983**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00264**	0.32940	**0.00253**	2.50740	**0.00478**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00282**	0.32940	**0.00268**	2.50740	**0.00477**

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	**0.00295**	0.32940	**0.00279**	2.50740	**0.00500**
	(!GATE * !Q)	0.01860	**0.00264**	0.32940	**0.00253**	2.50740	**0.00478**

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	**0.00263**	0.32940	**0.00254**	2.50740	**0.00468**
	(!GATE * !Q)	0.01860	**0.00282**	0.32940	**0.00268**	2.50740	**0.00477**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00668**	0.32940	**0.00647**	2.50740	**0.00929**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00165**	0.32940	**0.01131**	2.50740	**0.01405**

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	**0.00668**	0.32940	**0.00647**	2.50740	**0.00929**

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	**0.00165**	0.32940	**0.01131**	2.50740	**0.01405**

DLHRQ

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

Truth Table

INPUT			OUTPUT
D	RESET_B	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	0.00181	0.00246	0.00192	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	1556.95000	1833.47000	2128.14000

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	**0.27285**	0.32940	0.06480	**0.67899**	2.50740	0.30000	**1.98585**
	GATE->Q (RR)	0.01860	0.00100	**0.24351**	0.32940	0.06480	**0.65058**	2.50740	0.30000	**1.95277**

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	**0.24301**	0.32940	0.06480	**0.60339**	2.50740	0.30000	**1.71438**
	GATE->Q (RF)	0.01860	0.00100	**0.24847**	0.32940	0.06480	**0.61583**	2.50740	0.30000	**1.74041**
	RESET_B->Q (FF)	0.01860	0.00100	**0.09245**	0.32940	0.06480	**0.47297**	2.50740	0.30000	**1.67522**

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	**-0.11737**	1.26300	1.26300	**-0.30761**	2.50740	2.50740	**-0.38665**
	setup	GATE (F)	0.01860	0.01860	**0.15160**	1.26300	1.26300	**0.38856**	2.50740	2.50740	**0.51652**

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	**-0.06602**	1.26300	1.26300	**-0.03508**	2.50740	2.50740	**-0.00590**
	setup	GATE (F)	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.02656**

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	**-0.08635**	2.50740	2.50740	**-0.14167**
	removal	GATE (F)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**0.15651**	2.50740	2.50740	**0.20956**

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	**0.00184**	0.32940	0.06480	**0.00092**	2.50740	0.30000	**0.00061**
	GATE	0.01860	0.00100	**0.00951**	0.32940	0.06480	**0.00954**	2.50740	0.30000	**0.00962**

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	**0.00537**	0.32940	0.06480	**-0.00092**	2.50740	0.30000	**-0.00061**
	GATE	0.01860	0.00100	**0.00931**	0.32940	0.06480	**0.00974**	2.50740	0.30000	**0.00940**
	RESET_B	0.01860	0.00100	**0.00523**	0.32940	0.06480	**0.00528**	2.50740	0.30000	**0.00737**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01185**	0.32940	**0.01281**	2.50740	**0.01509**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00779**	0.32940	**0.01830**	2.50740	**0.02042**

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	**0.00287**	0.32940	**0.00273**	2.50740	**0.00496**
	!RESET_B	0.01860	**0.01185**	0.32940	**0.01281**	2.50740	**0.01509**

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	**0.00257**	0.32940	**0.00250**	2.50740	**0.00462**
	!RESET_B	0.01860	**0.00779**	0.32940	**0.01830**	2.50740	**0.02042**

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	**-0.00001**	0.32940	**-0.00003**	2.50740	**-0.00003**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00038**	0.32940	**0.00030**	2.50740	**0.00026**

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	**-0.00001**	0.32940	**-0.00003**	2.50740	**-0.00003**
	(!D * !GATE * !Q)	0.01860	**-0.00001**	0.32940	**-0.00003**	2.50740	**-0.00003**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00038**	0.32940	**0.00030**	2.50740	**0.00026**
	(!D * !GATE * !Q)	0.01860	**0.00038**	0.32940	**0.00030**	2.50740	**0.00026**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00640**	0.32940	**0.00616**	2.50740	**0.00898**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00170**	0.32940	**0.01127**	2.50740	**0.01399**

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	**0.00874**	0.32940	**0.00832**	2.50740	**0.01134**
	(!D * !RESET_B * !Q)	0.01860	**0.00640**	0.32940	**0.00616**	2.50740	**0.00898**

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	**0.00894**	0.32940	**0.00859**	2.50740	**0.01153**
	(!D * RESET_B * !Q)	0.01860	**0.00170**	0.32940	**0.01127**	2.50740	**0.01399**
	(!D * !RESET_B * !Q)	0.01860	**0.00175**	0.32940	**0.01131**	2.50740	**0.01404**

DLHR

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

Truth Table

INPUT			OUTPUT	
D	RESET_B	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	0.00183	0.00261	0.00198	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	2052.80000	2357.21000	2640.87000

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	**0.29584**	0.32940	0.06480	**0.71285**	2.50740	0.30000	**2.01648**
	GATE->Q (RR)	0.01860	0.00100	**0.26809**	0.32940	0.06480	**0.68680**	2.50740	0.30000	**1.98936**

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	**0.25261**	0.32940	0.06480	**0.61813**	2.50740	0.30000	**1.72013**
	GATE->Q (RF)	0.01860	0.00100	**0.25795**	0.32940	0.06480	**0.63115**	2.50740	0.30000	**1.74997**
	RESET_B->Q (FF)	0.01860	0.00100	**0.10058**	0.32940	0.06480	**0.49506**	2.50740	0.30000	**1.73469**

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	**0.31055**	0.32940	0.06480	**0.69815**	2.50740	0.30000	**1.95442**
	GATE->Q_N (RR)	0.01860	0.00100	**0.31615**	0.32940	0.06480	**0.71122**	2.50740	0.30000	**1.98215**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.15822**	0.32940	0.06480	**0.56992**	2.50740	0.30000	**1.91536**

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	**0.36089**	0.32940	0.06480	**0.71247**	2.50740	0.30000	**1.86369**
	GATE->Q_N (RF)	0.01860	0.00100	**0.33353**	0.32940	0.06480	**0.68663**	2.50740	0.30000	**1.83759**

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	**-0.12470**	1.26300	1.26300	**-0.31301**	2.50740	2.50740	**-0.39255**
	setup	GATE (F)	0.01860	0.01860	**0.16383**	1.26300	1.26300	**0.39126**	2.50740	2.50740	**0.51652**

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	**-0.07091**	1.26300	1.26300	**-0.03508**	2.50740	2.50740	**-0.00590**
	setup	GATE (F)	0.01860	0.01860	**0.10025**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.02361**

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	**0.00489**	1.26300	1.26300	**-0.03238**	2.50740	2.50740	**-0.05313**
	removal	GATE (F)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.10524**	2.50740	2.50740	**0.13282**

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	**0.00405**	0.32940	0.06480	**0.00383**	2.50740	0.30000	**0.00353**
	GATE	0.01860	0.00100	**0.00776**	0.32940	0.06480	**0.00797**	2.50740	0.30000	**0.00779**

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	**0.00574**	0.32940	0.06480	**0.00059**	2.50740	0.30000	**-0.00020**
	GATE	0.01860	0.00100	**0.00767**	0.32940	0.06480	**0.00793**	2.50740	0.30000	**0.00728**
	RESET_B	0.01860	0.00100	**0.00551**	0.32940	0.06480	**0.00558**	2.50740	0.30000	**0.00634**

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	**0.00575**	0.32940	0.06480	**0.00073**	2.50740	0.30000	**0.00062**
	GATE	0.01860	0.00100	**0.00767**	0.32940	0.06480	**0.00807**	2.50740	0.30000	**0.00778**
	RESET_B	0.01860	0.00100	**0.00552**	0.32940	0.06480	**0.00562**	2.50740	0.30000	**0.00714**

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	**0.00404**	0.32940	0.06480	**0.00373**	2.50740	0.30000	**0.00318**
	GATE	0.01860	0.00100	**0.00776**	0.32940	0.06480	**0.00787**	2.50740	0.30000	**0.00746**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01154**	0.32940	**0.01244**	2.50740	**0.01475**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00751**	0.32940	**0.01802**	2.50740	**0.02013**

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	**0.00285**	0.32940	**0.00271**	2.50740	**0.00496**
	!RESET_B	0.01860	**0.01154**	0.32940	**0.01244**	2.50740	**0.01475**

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	**0.00238**	0.32940	**0.00232**	2.50740	**0.00446**
	!RESET_B	0.01860	**0.00751**	0.32940	**0.01802**	2.50740	**0.02013**

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	**-0.00010**	0.32940	**-0.00012**	2.50740	**-0.00013**

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	**0.00047**	0.32940	**0.00039**	2.50740	**0.00036**

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	**-0.00010**	0.32940	**-0.00012**	2.50740	**-0.00013**
	(!D * !GATE * !Q)	0.01860	**-0.00010**	0.32940	**-0.00012**	2.50740	**-0.00013**

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	**0.00047**	0.32940	**0.00039**	2.50740	**0.00036**
	(!D * !GATE * !Q)	0.01860	**0.00047**	0.32940	**0.00039**	2.50740	**0.00036**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00610**	0.32940	**0.00589**	2.50740	**0.00870**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00171**	0.32940	**0.01105**	2.50740	**0.01378**

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	**0.00844**	0.32940	**0.00804**	2.50740	**0.01104**
	(!D * !RESET_B * !Q)	0.01860	**0.00610**	0.32940	**0.00589**	2.50740	**0.00870**

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	**0.00916**	0.32940	**0.00877**	2.50740	**0.01175**
	(!D * RESET_B * !Q)	0.01860	**0.00171**	0.32940	**0.01105**	2.50740	**0.01378**
	(!D * !RESET_B * !Q)	0.01860	**0.00176**	0.32940	**0.01109**	2.50740	**0.01383**

DLLRQ

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

Truth Table

INPUT			OUTPUT
D	RESET_B	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	0.00180	0.00247	0.00192	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	1451.71000	1806.12000	2128.09000

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	**0.27258**	0.32940	0.06480	**0.67738**	2.50740	0.30000	**1.98186**
	GATE_N->Q (FR)	0.01860	0.00100	**0.30333**	0.32940	0.06480	**0.71680**	2.50740	0.30000	**2.02781**
	RESET_B->Q (RR)	0.01860	0.00100	**0.12219**	0.32940	0.06480	**0.52375**	2.50740	0.30000	**1.89011**

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	**0.24225**	0.32940	0.06480	**0.59991**	2.50740	0.30000	**1.70308**
	GATE_N->Q (FF)	0.01860	0.00100	**0.22874**	0.32940	0.06480	**0.60384**	2.50740	0.30000	**1.80653**
	RESET_B->Q (FF)	0.01860	0.00100	**0.09360**	0.32940	0.06480	**0.47296**	2.50740	0.30000	**1.67184**

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	**-0.11492**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.16234**
	setup	GATE_N (R)	0.01860	0.01860	**0.12715**	1.26300	1.26300	**0.14841**	2.50740	2.50740	**0.18299**

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	**-0.12715**	1.26300	1.26300	**-0.32110**	2.50740	2.50740	**-0.40731**
	setup	GATE_N (R)	0.01860	0.01860	**0.14427**	1.26300	1.26300	**0.39126**	2.50740	2.50740	**0.52537**

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	**-0.03668**	1.26300	1.26300	**-0.11603**	2.50740	2.50740	**-0.13872**
	removal	GATE_N (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.18004**

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	**0.00473**	0.32940	0.06480	**0.00506**	2.50740	0.30000	**0.00472**
	GATE_N	0.01860	0.00100	**0.01462**	0.32940	0.06480	**0.00514**	2.50740	0.30000	**0.00504**
	RESET_B	0.01860	0.00100	**0.00723**	0.32940	0.06480	**0.00722**	2.50740	0.30000	**0.00914**

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	**0.01189**	0.32940	0.06480	**0.00001**	2.50740	0.30000	**-0.00033**
	GATE_N	0.01860	0.00100	**0.01360**	0.32940	0.06480	**0.00403**	2.50740	0.30000	**0.00384**
	RESET_B	0.01860	0.00100	**0.00539**	0.32940	0.06480	**0.00544**	2.50740	0.30000	**0.00789**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00895**	0.32940	**0.00865**	2.50740	**0.01088**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00133**	0.32940	**0.01328**	2.50740	**0.01544**

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	**0.00286**	0.32940	**0.00272**	2.50740	**0.00496**
	!RESET_B	0.01860	**0.00895**	0.32940	**0.00865**	2.50740	**0.01088**

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	**0.00244**	0.32940	**0.00237**	2.50740	**0.00452**
	!RESET_B	0.01860	**0.00133**	0.32940	**0.01328**	2.50740	**0.01544**

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	**-0.00003**	2.50740	**-0.00003**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00038**	0.32940	**0.00030**	2.50740	**0.00026**

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	**-0.00003**	2.50740	**-0.00003**
	(!D * GATE_N * !Q)	0.01860	**-0.00001**	0.32940	**-0.00003**	2.50740	**-0.00003**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00038**	0.32940	**0.00030**	2.50740	**0.00026**
	(!D * GATE_N * !Q)	0.01860	**0.00038**	0.32940	**0.00030**	2.50740	**0.00026**

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	**0.00562**	0.32940	**0.00541**	2.50740	**0.00822**

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	**0.00168**	0.32940	**0.01114**	2.50740	**0.01391**

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	**0.01002**	0.32940	**0.00970**	2.50740	**0.01235**
	(!D * !RESET_B * !Q)	0.01860	**0.00562**	0.32940	**0.00541**	2.50740	**0.00822**

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	**0.00917**	0.32940	**0.00889**	2.50740	**0.01161**
	(!D * RESET_B * !Q)	0.01860	**0.00168**	0.32940	**0.01114**	2.50740	**0.01391**
	(!D * !RESET_B * !Q)	0.01860	**0.00173**	0.32940	**0.01119**	2.50740	**0.01396**

DLLR

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

Truth Table

INPUT			OUTPUT	
D	RESET_B	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	0.00184	0.00261	0.00199	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	1946.82000	2405.38000	2656.31000

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	**0.29975**	0.32940	0.06480	**0.71654**	2.50740	0.30000	**2.02058**
	GATE_N->Q (FR)	0.01860	0.00100	**0.33103**	0.32940	0.06480	**0.75740**	2.50740	0.30000	**2.07072**

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	**0.25591**	0.32940	0.06480	**0.62129**	2.50740	0.30000	**1.72345**
	GATE_N->Q (FF)	0.01860	0.00100	**0.24385**	0.32940	0.06480	**0.62753**	2.50740	0.30000	**1.83403**
	RESET_B->Q (FF)	0.01860	0.00100	**0.10073**	0.32940	0.06480	**0.50251**	2.50740	0.30000	**1.74248**

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	**0.31377**	0.32940	0.06480	**0.70120**	2.50740	0.30000	**1.95615**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.30193**	0.32940	0.06480	**0.70717**	2.50740	0.30000	**2.06443**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.15963**	0.32940	0.06480	**0.57215**	2.50740	0.30000	**1.92520**

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	**0.36457**	0.32940	0.06480	**0.71637**	2.50740	0.30000	**1.86889**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.39629**	0.32940	0.06480	**0.75723**	2.50740	0.30000	**1.91771**

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	**-0.12959**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.16824**
	setup	GATE_N (R)	0.01860	0.01860	**0.14427**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.19480**

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	**-0.13204**	1.26300	1.26300	**-0.32380**	2.50740	2.50740	**-0.41321**
	setup	GATE_N (R)	0.01860	0.01860	**0.15405**	1.26300	1.26300	**0.39666**	2.50740	2.50740	**0.53128**

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	**-0.01956**	1.26300	1.26300	**-0.07286**	2.50740	2.50740	**-0.06789**
	removal	GATE_N (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.11873**	2.50740	2.50740	**0.11216**

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	**0.00777**	0.32940	0.06480	**0.04524**	2.50740	0.30000	**0.18173**
	GATE_N	0.01860	0.00100	**0.01692**	0.32940	0.06480	**0.05476**	2.50740	0.30000	**0.19143**

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	**0.01169**	0.32940	0.06480	**0.03786**	2.50740	0.30000	**0.17334**
	GATE_N	0.01860	0.00100	**0.01554**	0.32940	0.06480	**0.05298**	2.50740	0.30000	**0.18910**
	RESET_B	0.01860	0.00100	**0.01777**	0.32940	0.06480	**0.05475**	2.50740	0.30000	**0.19255**

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	**0.01171**	0.32940	0.06480	**0.03813**	2.50740	0.30000	**0.17458**
	GATE_N	0.01860	0.00100	**0.01555**	0.32940	0.06480	**0.05329**	2.50740	0.30000	**0.19008**
	RESET_B	0.01860	0.00100	**0.01778**	0.32940	0.06480	**0.05483**	2.50740	0.30000	**0.19383**

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	**0.00777**	0.32940	0.06480	**0.04505**	2.50740	0.30000	**0.18146**
	GATE_N	0.01860	0.00100	**0.01691**	0.32940	0.06480	**0.05457**	2.50740	0.30000	**0.19057**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01277**	0.32940	**0.01297**	2.50740	**0.01534**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00794**	0.32940	**0.01919**	2.50740	**0.02143**

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	**0.00286**	0.32940	**0.00269**	2.50740	**0.00497**
	!RESET_B	0.01860	**0.01277**	0.32940	**0.01297**	2.50740	**0.01534**

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	**0.00238**	0.32940	**0.00232**	2.50740	**0.00445**
	!RESET_B	0.01860	**0.00794**	0.32940	**0.01919**	2.50740	**0.02143**

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	**-0.00010**	0.32940	**-0.00012**	2.50740	**-0.00013**

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	**0.00047**	0.32940	**0.00039**	2.50740	**0.00036**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**-0.00010**	0.32940	**-0.00012**	2.50740	**-0.00013**
	(!D * GATE_N * !Q)	0.01860	**-0.00010**	0.32940	**-0.00012**	2.50740	**-0.00013**

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	**0.00047**	0.32940	**0.00039**	2.50740	**0.00036**
	(!D * GATE_N * !Q)	0.01860	**0.00047**	0.32940	**0.00039**	2.50740	**0.00036**

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	**0.00135**	0.32940	**0.01139**	2.50740	**0.01420**

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	**0.00633**	0.32940	**0.00608**	2.50740	**0.00887**

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	**0.01013**	0.32940	**0.00977**	2.50740	**0.01243**
	(!D * RESET_B * !Q)	0.01860	**0.00130**	0.32940	**0.01133**	2.50740	**0.01415**
	(!D * !RESET_B * !Q)	0.01860	**0.00135**	0.32940	**0.01139**	2.50740	**0.01420**

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	**0.00950**	0.32940	**0.00919**	2.50740	**0.01196**
	(!D * !RESET_B * !Q)	0.01860	**0.00633**	0.32940	**0.00608**	2.50740	**0.00887**

DLY1

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00120	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	797.64000	914.88000	1032.12000

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	**0.17104**	0.32940	0.06480	**0.57385**	2.50740	0.30000	**1.85370**

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	**0.19986**	0.32940	0.06480	**0.58189**	2.50740	0.30000	**1.82547**

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	**0.00968**	0.32940	0.06480	**0.00957**	2.50740	0.30000	**0.01103**

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	**0.00919**	0.32940	0.06480	**0.00920**	2.50740	0.30000	**0.01014**

DLY2

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00121	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	840.62500	957.87200	1075.12000

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	**0.24572**	0.32940	0.06480	**0.65936**	2.50740	0.30000	**1.99606**

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	**0.28033**	0.32940	0.06480	**0.68244**	2.50740	0.30000	**1.99333**

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	**0.01130**	0.32940	0.06480	**0.01124**	2.50740	0.30000	**0.01186**

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	**0.01087**	0.32940	0.06480	**0.01087**	2.50740	0.30000	**0.01152**

DLY4

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd3_1	0.00119	0.30000

Leakage Information

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

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	**0.52348**	0.32940	0.06480	**0.97406**	2.50740	0.30000	**2.43679**

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	**0.55410**	0.32940	0.06480	**0.99535**	2.50740	0.30000	**2.44648**

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	**0.01591**	0.32940	0.06480	**0.01584**	2.50740	0.30000	**0.01626**

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	**0.01574**	0.32940	0.06480	**0.01562**	2.50740	0.30000	**0.01597**

EINVINx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00733	0.00806	1.20000
sg13g2_einvn_2	0.00368	0.00422	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	717.43400	1402.48000	2087.53000
sg13g2_einvn_2	355.00100	697.53100	1040.06000

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	0.00876	**0.03449**	0.32940	0.26696	**0.75717**	2.50740	1.20776	**3.85313**
	TE_B->Z (RR)	0.01860	0.00876	**0.07186**	0.32940	0.26696	**0.17701**	2.50740	1.20776	**0.40327**
	TE_B->Z (FR)	0.01860	0.00876	**0.04422**	0.32940	0.26696	**0.75870**	2.50740	1.20776	**3.73492**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00490	**0.03669**	0.32940	0.13350	**0.75644**	2.50740	0.60390	**3.84457**
	TE_B->Z (RR)	0.01860	0.00490	**0.07085**	0.32940	0.13350	**0.17633**	2.50740	0.60390	**0.41664**
	TE_B->Z (FR)	0.01860	0.00490	**0.04682**	0.32940	0.13350	**0.75872**	2.50740	0.60390	**3.73413**

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	0.01536	**0.03358**	0.32940	0.27356	**0.61942**	2.50740	1.21436	**3.23907**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00838	**0.03571**	0.32940	0.13698	**0.61975**	2.50740	0.60738	**3.23959**

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	0.00876	**0.00448**	0.32940	0.26696	**0.00411**	2.50740	1.20776	**0.00398**
	TE_B	0.01860	0.00876	**0.01729**	0.32940	0.26696	**0.01078**	2.50740	1.20776	**0.00883**
sg13g2_einvn_2	A	0.01860	0.00490	**0.00228**	0.32940	0.13350	**0.00204**	2.50740	0.60390	**0.00145**
	TE_B	0.01860	0.00490	**0.00863**	0.32940	0.13350	**0.00528**	2.50740	0.60390	**0.00435**

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	0.01536	**0.00934**	0.32940	0.27356	**0.01027**	2.50740	1.21436	**0.00741**
sg13g2_einvn_2	A	0.01860	0.00838	**0.00471**	0.32940	0.13698	**0.00510**	2.50740	0.60738	**0.00362**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**-0.00201**	0.32940	**-0.00202**	2.50740	**-0.00204**
sg13g2_einvn_2	0.01860	**-0.00095**	0.32940	**-0.00095**	2.50740	**-0.00096**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00318**	0.32940	**0.00313**	2.50740	**0.00306**
sg13g2_einvn_2	0.01860	**0.00156**	0.32940	**0.00153**	2.50740	**0.00150**

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	**-0.00089**	0.32940	**-0.00128**	2.50740	**0.00157**
sg13g2_einvn_2	0.01860	**-0.00030**	0.32940	**-0.00053**	2.50740	**0.00089**

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	**0.00537**	0.32940	**0.01130**	2.50740	**0.01452**
sg13g2_einvn_2	0.01860	**0.00273**	0.32940	**0.00572**	2.50740	**0.00732**

FILLx

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

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_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_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_16	0.04278	4.80000
sg13g2_inv_8	0.02079	2.40000
sg13g2_inv_4	0.01040	1.20000
sg13g2_inv_2	0.00520	0.60000
sg13g2_inv_1	0.00261	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	2162.55000	4902.83000	7643.12000
sg13g2_inv_8	1081.28000	2451.42000	3821.56000
sg13g2_inv_4	540.63900	1225.71000	1910.78000
sg13g2_inv_2	270.32000	612.85500	955.39000
sg13g2_inv_1	135.29100	306.49600	477.70200

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	**0.02221**	0.32940	1.03680	**0.46699**	2.50740	4.80000	**2.62669**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.02207**	0.32940	0.51840	**0.46515**	2.50740	2.40000	**2.62474**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.02256**	0.32940	0.25920	**0.46478**	2.50740	1.20000	**2.62477**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.02397**	0.32940	0.12960	**0.46430**	2.50740	0.60000	**2.62190**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.02798**	0.32940	0.06480	**0.46659**	2.50740	0.30000	**2.62285**

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	**0.02128**	0.32940	1.03680	**0.42857**	2.50740	4.80000	**2.46056**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.02117**	0.32940	0.51840	**0.42873**	2.50740	2.40000	**2.46176**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.02161**	0.32940	0.25920	**0.42820**	2.50740	1.20000	**2.46133**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.02276**	0.32940	0.12960	**0.42667**	2.50740	0.60000	**2.45787**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.02628**	0.32940	0.06480	**0.42775**	2.50740	0.30000	**2.45230**

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	**0.01818**	0.32940	1.03680	**0.01909**	2.50740	4.80000	**0.01526**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.00868**	0.32940	0.51840	**0.00843**	2.50740	2.40000	**0.00674**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00439**	0.32940	0.25920	**0.00417**	2.50740	1.20000	**0.00350**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00226**	0.32940	0.12960	**0.00212**	2.50740	0.60000	**0.00178**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00137**	0.32940	0.06480	**0.00128**	2.50740	0.30000	**0.00079**

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	**0.01562**	0.32940	1.03680	**0.01697**	2.50740	4.80000	**0.00055**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.00744**	0.32940	0.51840	**0.00829**	2.50740	2.40000	**-0.00017**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00379**	0.32940	0.25920	**0.00400**	2.50740	1.20000	**-0.00009**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00197**	0.32940	0.12960	**0.00200**	2.50740	0.60000	**0.00044**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00131**	0.32940	0.06480	**0.00123**	2.50740	0.30000	**-0.00005**

ITL

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.01458	0.01380	2.40000

Leakage Information

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

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	0.01651	**0.03344**	0.32940	0.53392	**0.75820**	2.50740	2.41551	**3.85712**
	TE_B->Z (RR)	0.01860	0.01651	**0.08898**	0.32940	0.53392	**0.22048**	2.50740	2.41551	**0.54797**
	TE_B->Z (FR)	0.01860	0.01651	**0.04482**	0.32940	0.53392	**0.76156**	2.50740	2.41551	**3.74288**

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	0.02960	**0.03498**	0.32940	0.54700	**0.62070**	2.50740	2.42860	**3.24687**

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	0.01651	**0.00874**	0.32940	0.53392	**0.00805**	2.50740	2.41551	**0.00797**
	TE_B	0.01860	0.01651	**0.03500**	0.32940	0.53392	**0.02257**	2.50740	2.41551	**0.01935**

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	0.02960	**0.01838**	0.32940	0.54700	**0.02065**	2.50740	2.42860	**0.01498**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**-0.00418**	0.32940	**-0.00420**	2.50740	**-0.00425**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.00643**	0.32940	**0.00634**	2.50740	**0.00622**

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	**-0.00340**	0.32940	**-0.00384**	2.50740	**-0.00157**

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	**0.00877**	0.32940	**0.01986**	2.50740	**0.02291**

KEEPSTATE

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

Truth Table

INPUT	OUTPUT
SH	SH
x	-

Footprint

Cell Name	Area
sg13g2_sighold	9.07200

Pin Capacitance Information

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	140.46200	162.95500	185.44700

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_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00179	0.00177	0.00447	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	751.57700	1057.00000	1491.98000

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	**0.11229**	0.32940	0.06480	**0.52390**	2.50740	0.30000	**1.88993**
	A1->X (RR)	0.01860	0.00100	**0.07650**	0.32940	0.06480	**0.53079**	2.50740	0.30000	**1.91238**
	S->X (-R)	0.01860	0.00100	**0.12260**	0.32940	0.06480	**0.53459**	2.50740	0.30000	**1.91948**

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	**0.08442**	0.32940	0.06480	**0.53603**	2.50740	0.30000	**1.78223**
	A1->X (FF)	0.01860	0.00100	**0.14970**	0.32940	0.06480	**0.54592**	2.50740	0.30000	**1.80436**
	S->X (-F)	0.01860	0.00100	**0.16178**	0.32940	0.06480	**0.54193**	2.50740	0.30000	**1.76727**

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	**0.12260**	0.32940	0.06480	**0.53459**	2.50740	0.30000	**1.91948**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.17785**	0.32940	0.06480	**0.58149**	2.50740	0.30000	**1.85009**

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	**0.16178**	0.32940	0.06480	**0.54193**	2.50740	0.30000	**1.76727**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.21021**	0.32940	0.06480	**0.59091**	2.50740	0.30000	**1.76252**

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	**0.00774**	0.32940	0.06480	**0.00762**	2.50740	0.30000	**0.01046**
	A1	0.01860	0.00100	**0.00640**	0.32940	0.06480	**0.00955**	2.50740	0.30000	**0.01203**
	S	0.01860	0.00100	**0.00754**	0.32940	0.06480	**0.00776**	2.50740	0.30000	**0.00927**

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	**0.00609**	0.32940	0.06480	**0.00963**	2.50740	0.30000	**0.01161**
	A1	0.01860	0.00100	**0.00773**	0.32940	0.06480	**0.00771**	2.50740	0.30000	**0.00995**
	S	0.01860	0.00100	**0.00683**	0.32940	0.06480	**0.00724**	2.50740	0.30000	**0.00836**

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	**0.00750**	0.32940	0.06480	**0.00769**	2.50740	0.30000	**0.00785**
	S	(!A0 * A1)	0.01860	0.00100	**0.00754**	0.32940	0.06480	**0.00776**	2.50740	0.30000	**0.00927**

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	**0.00755**	0.32940	0.06480	**0.00772**	2.50740	0.30000	**0.00739**
	S	(!A0 * A1)	0.01860	0.00100	**0.00683**	0.32940	0.06480	**0.00724**	2.50740	0.30000	**0.00836**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00302**	0.32940	**0.00286**	2.50740	**0.00506**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00325**	0.32940	**0.00303**	2.50740	**0.00513**

MUX4

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

Truth Table

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	0.00237	0.00237	0.00237	0.00238	0.00698	0.00440	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	997.59000	2353.51000	3423.66000

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	**0.21571**	0.32940	0.06480	**0.65133**	2.50740	0.30000	**2.17907**
	A1->X (RR)	0.01860	0.00100	**0.20925**	0.32940	0.06480	**0.64875**	2.50740	0.30000	**2.17361**
	A2->X (RR)	0.01860	0.00100	**0.22572**	0.32940	0.06480	**0.66450**	2.50740	0.30000	**2.21151**
	A3->X (RR)	0.01860	0.00100	**0.21941**	0.32940	0.06480	**0.66096**	2.50740	0.30000	**2.20808**
	S0->X (-R)	0.01860	0.00100	**0.18757**	0.32940	0.06480	**0.63376**	2.50740	0.30000	**2.14658**
	S1->X (-R)	0.01860	0.00100	**0.00676**	0.32940	0.06480	**0.44868**	2.50740	0.30000	**1.85931**

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	**0.24685**	0.32940	0.06480	**0.65957**	2.50740	0.30000	**1.95970**
	A1->X (FF)	0.01860	0.00100	**0.24744**	0.32940	0.06480	**0.65842**	2.50740	0.30000	**1.95832**
	A2->X (FF)	0.01860	0.00100	**0.26403**	0.32940	0.06480	**0.68032**	2.50740	0.30000	**2.00158**
	A3->X (FF)	0.01860	0.00100	**0.26411**	0.32940	0.06480	**0.67952**	2.50740	0.30000	**1.99854**
	S0->X (-F)	0.01860	0.00100	**0.22592**	0.32940	0.06480	**0.64809**	2.50740	0.30000	**1.97134**
	S1->X (-F)	0.01860	0.00100	**0.00680**	0.32940	0.06480	**0.55368**	2.50740	0.30000	**1.70213**

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	**0.18757**	0.32940	0.06480	**0.63376**	2.50740	0.30000	**2.14658**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.17508**	0.32940	0.06480	**0.61485**	2.50740	0.30000	**2.09387**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.26954**	0.32940	0.06480	**0.70640**	2.50740	0.30000	**2.03995**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.25945**	0.32940	0.06480	**0.69347**	2.50740	0.30000	**2.02117**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**-0.00147**	0.32940	0.06480	**0.41239**	2.50740	0.30000	**1.85864**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00676**	0.32940	0.06480	**0.44868**	2.50740	0.30000	**1.85931**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**-0.00255**	0.32940	0.06480	**0.51985**	2.50740	0.30000	**1.80168**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00155**	0.32940	0.06480	**0.53577**	2.50740	0.30000	**1.80206**

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	**0.22592**	0.32940	0.06480	**0.64809**	2.50740	0.30000	**1.97134**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.20553**	0.32940	0.06480	**0.62065**	2.50740	0.30000	**1.91153**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.29119**	0.32940	0.06480	**0.71843**	2.50740	0.30000	**1.94282**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.27481**	0.32940	0.06480	**0.69583**	2.50740	0.30000	**1.91584**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.05250**	0.32940	0.06480	**0.48266**	2.50740	0.30000	**1.68211**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.00330**	0.32940	0.06480	**0.40795**	2.50740	0.30000	**1.67770**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.00680**	0.32940	0.06480	**0.55368**	2.50740	0.30000	**1.70213**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.00419**	0.32940	0.06480	**0.53733**	2.50740	0.30000	**1.69975**

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	**0.00950**	0.32940	0.06480	**0.00944**	2.50740	0.30000	**0.01030**
	A1	0.01860	0.00100	**0.00910**	0.32940	0.06480	**0.00903**	2.50740	0.30000	**0.00988**
	A2	0.01860	0.00100	**0.00971**	0.32940	0.06480	**0.00963**	2.50740	0.30000	**0.01061**
	A3	0.01860	0.00100	**0.00958**	0.32940	0.06480	**0.00951**	2.50740	0.30000	**0.01056**
	S0	0.01860	0.00100	**0.00625**	0.32940	0.06480	**-0.00097**	2.50740	0.30000	**0.00402**
	S1	0.01860	0.00100	**0.00747**	0.32940	0.06480	**0.01239**	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_mux4_1	A0	0.01860	0.00100	**0.00920**	0.32940	0.06480	**0.00928**	2.50740	0.30000	**0.00963**
	A1	0.01860	0.00100	**0.01252**	0.32940	0.06480	**0.01263**	2.50740	0.30000	**0.01329**
	A2	0.01860	0.00100	**0.01380**	0.32940	0.06480	**0.01396**	2.50740	0.30000	**0.01446**
	A3	0.01860	0.00100	**0.01279**	0.32940	0.06480	**0.01292**	2.50740	0.30000	**0.01347**
	S0	0.01860	0.00100	**0.01140**	0.32940	0.06480	**0.00614**	2.50740	0.30000	**0.00528**
	S1	0.01860	0.00100	**0.00938**	0.32940	0.06480	**0.01932**	2.50740	0.30000	**0.02174**

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	**0.01387**	0.32940	0.06480	**0.00876**	2.50740	0.30000	**0.00575**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01384**	0.32940	0.06480	**0.00880**	2.50740	0.30000	**0.00559**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00625**	0.32940	0.06480	**-0.00097**	2.50740	0.30000	**0.00402**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00631**	0.32940	0.06480	**-0.00097**	2.50740	0.30000	**0.00341**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00783**	0.32940	0.06480	**0.02289**	2.50740	0.30000	**0.02868**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00890**	0.32940	0.06480	**0.02186**	2.50740	0.30000	**0.02578**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00747**	0.32940	0.06480	**0.01239**	2.50740	0.30000	**0.02366**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00817**	0.32940	0.06480	**0.01353**	2.50740	0.30000	**0.02122**

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	**0.01001**	0.32940	0.06480	**0.00736**	2.50740	0.30000	**0.00728**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.00979**	0.32940	0.06480	**0.00807**	2.50740	0.30000	**0.00783**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01140**	0.32940	0.06480	**0.00614**	2.50740	0.30000	**0.00528**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01064**	0.32940	0.06480	**0.00551**	2.50740	0.30000	**0.00469**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00938**	0.32940	0.06480	**0.01932**	2.50740	0.30000	**0.02174**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00891**	0.32940	0.06480	**0.02473**	2.50740	0.30000	**0.02875**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00863**	0.32940	0.06480	**0.01364**	2.50740	0.30000	**0.01786**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00817**	0.32940	0.06480	**0.01375**	2.50740	0.30000	**0.02397**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00653**	0.32940	**0.01354**	2.50740	**0.01629**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00468**	0.32940	**0.00975**	2.50740	**0.01481**

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	**0.00656**	0.32940	**0.01265**	2.50740	**0.01558**
	(A0 * A1 * !S1)	0.01860	**0.00653**	0.32940	**0.01354**	2.50740	**0.01629**
	(!A2 * !A3 * S1)	0.01860	**0.00674**	0.32940	**0.01283**	2.50740	**0.01577**
	(!A0 * !A1 * !S1)	0.01860	**0.00710**	0.32940	**0.01412**	2.50740	**0.01689**

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	**0.00429**	0.32940	**0.00807**	2.50740	**0.01331**
	(A0 * A1 * !S1)	0.01860	**0.00468**	0.32940	**0.00975**	2.50740	**0.01481**
	(!A2 * !A3 * S1)	0.01860	**0.00430**	0.32940	**0.00804**	2.50740	**0.01325**
	(!A0 * !A1 * !S1)	0.01860	**0.00737**	0.32940	**0.01433**	2.50740	**0.01684**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00291**	0.32940	**0.00280**	2.50740	**0.00572**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00285**	0.32940	**0.00291**	2.50740	**0.00564**

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	**0.00286**	0.32940	**0.00275**	2.50740	**0.00567**
	(A0 * A2 * !S0)	0.01860	**0.00291**	0.32940	**0.00280**	2.50740	**0.00572**
	(!A1 * !A3 * S0)	0.01860	**0.00307**	0.32940	**0.00305**	2.50740	**0.00594**
	(!A0 * !A2 * !S0)	0.01860	**0.00311**	0.32940	**0.00309**	2.50740	**0.00598**

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	**0.00282**	0.32940	**0.00286**	2.50740	**0.00560**
	(A0 * A2 * !S0)	0.01860	**0.00285**	0.32940	**0.00291**	2.50740	**0.00564**
	(!A1 * !A3 * S0)	0.01860	**0.00315**	0.32940	**0.00308**	2.50740	**0.00585**
	(!A0 * !A2 * !S0)	0.01860	**0.00318**	0.32940	**0.00312**	2.50740	**0.00589**

NAND2B1

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

Truth Table

INPUT		OUTPUT
A_N	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	0.00205	0.00276	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	215.66200	541.40500	1046.65000

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	**0.07506**	0.32940	0.06480	**0.47866**	2.50740	0.30000	**1.80643**
	B->Y (FR)	0.01860	0.00100	**0.03518**	0.32940	0.06480	**0.47448**	2.50740	0.30000	**2.63386**

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	**0.09254**	0.32940	0.06480	**0.64440**	2.50740	0.30000	**2.47198**
	B->Y (RF)	0.01860	0.00100	**0.05619**	0.32940	0.06480	**0.62713**	2.50740	0.30000	**3.16903**

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	**0.00166**	0.32940	0.06480	**0.00172**	2.50740	0.30000	**0.00096**
	B	0.01860	0.00100	**0.00167**	0.32940	0.06480	**0.00138**	2.50740	0.30000	**0.00094**

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	**0.00331**	0.32940	0.06480	**0.00338**	2.50740	0.30000	**0.00265**
	B	0.01860	0.00100	**0.00337**	0.32940	0.06480	**0.00328**	2.50740	0.30000	**0.00227**

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	**0.00314**	0.32940	**0.00303**	2.50740	**0.00533**

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	**0.00179**	0.32940	**0.00171**	2.50740	**0.00383**

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	**0.00314**	0.32940	**0.00303**	2.50740	**0.00533**

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	**0.00179**	0.32940	**0.00171**	2.50740	**0.00383**

NAND2

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00258	0.00263	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	124.40000	406.41300	955.38800

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	**0.03079**	0.32940	0.06480	**0.46843**	2.50740	0.30000	**2.62542**
	B->Y (FR)	0.01860	0.00100	**0.03551**	0.32940	0.06480	**0.47347**	2.50740	0.30000	**2.63119**

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	**0.04293**	0.32940	0.06480	**0.61923**	2.50740	0.30000	**3.23151**
	B->Y (RF)	0.01860	0.00100	**0.04971**	0.32940	0.06480	**0.62083**	2.50740	0.30000	**3.16984**

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	**0.00149**	0.32940	0.06480	**0.00134**	2.50740	0.30000	**0.00085**
	B	0.01860	0.00100	**0.00159**	0.32940	0.06480	**0.00128**	2.50740	0.30000	**0.00082**

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	**0.00191**	0.32940	0.06480	**0.00182**	2.50740	0.30000	**0.00146**
	B	0.01860	0.00100	**0.00320**	0.32940	0.06480	**0.00307**	2.50740	0.30000	**0.00236**

NAND3B1

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

Truth Table

INPUT			OUTPUT
A_N	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	0.00196	0.00263	0.00264	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	138.75200	476.72400	1524.34000

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	**0.07916**	0.32940	0.06480	**0.48015**	2.50740	0.30000	**1.80177**
	B->Y (FR)	0.01860	0.00100	**0.04006**	0.32940	0.06480	**0.47906**	2.50740	0.30000	**2.63857**
	C->Y (FR)	0.01860	0.00100	**0.04361**	0.32940	0.06480	**0.48398**	2.50740	0.30000	**2.64332**

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	**0.11485**	0.32940	0.06480	**0.86123**	2.50740	0.30000	**3.40673**
	B->Y (RF)	0.01860	0.00100	**0.08753**	0.32940	0.06480	**0.84838**	2.50740	0.30000	**4.06397**
	C->Y (RF)	0.01860	0.00100	**0.09576**	0.32940	0.06480	**0.84983**	2.50740	0.30000	**3.95964**

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	**0.00157**	0.32940	0.06480	**0.00160**	2.50740	0.30000	**0.00081**
	B	0.01860	0.00100	**0.00192**	0.32940	0.06480	**0.00162**	2.50740	0.30000	**0.00122**
	C	0.01860	0.00100	**0.00219**	0.32940	0.06480	**0.00180**	2.50740	0.30000	**0.00138**

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	**0.00450**	0.32940	0.06480	**0.00453**	2.50740	0.30000	**0.00386**
	B	0.01860	0.00100	**0.00437**	0.32940	0.06480	**0.00426**	2.50740	0.30000	**0.00338**
	C	0.01860	0.00100	**0.00566**	0.32940	0.06480	**0.00555**	2.50740	0.30000	**0.00490**

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	**0.00328**	0.32940	**0.00316**	2.50740	**0.00547**

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	**0.00167**	0.32940	**0.00157**	2.50740	**0.00372**

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	**0.00328**	0.32940	**0.00316**	2.50740	**0.00547**

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	**0.00167**	0.32940	**0.00157**	2.50740	**0.00372**

NOR2

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00264	0.00258	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	250.89900	408.93800	630.62400

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	**0.06084**	0.32940	0.06480	**0.76425**	2.50740	0.30000	**3.73200**
	B->Y (FR)	0.01860	0.00100	**0.05201**	0.32940	0.06480	**0.76705**	2.50740	0.30000	**3.84565**

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	**0.03311**	0.32940	0.06480	**0.43605**	2.50740	0.30000	**2.46392**
	B->Y (RF)	0.01860	0.00100	**0.02868**	0.32940	0.06480	**0.43013**	2.50740	0.30000	**2.45509**

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	**0.00349**	0.32940	0.06480	**0.00338**	2.50740	0.30000	**0.00275**
	B	0.01860	0.00100	**0.00190**	0.32940	0.06480	**0.00186**	2.50740	0.30000	**0.00133**

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	**0.00163**	0.32940	0.06480	**0.00138**	2.50740	0.30000	**0.00024**
	B	0.01860	0.00100	**0.00146**	0.32940	0.06480	**0.00140**	2.50740	0.30000	**0.00011**

NOR3

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00262	0.00258	0.00254	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	217.83200	468.13000	814.90800

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	**0.11267**	0.32940	0.06480	**1.10139**	2.50740	0.30000	**4.98143**
	B->Y (FR)	0.01860	0.00100	**0.10604**	0.32940	0.06480	**1.10156**	2.50740	0.30000	**5.12249**
	C->Y (FR)	0.01860	0.00100	**0.08364**	0.32940	0.06480	**1.08316**	2.50740	0.30000	**5.17174**

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	**0.03788**	0.32940	0.06480	**0.44486**	2.50740	0.30000	**2.47464**
	B->Y (RF)	0.01860	0.00100	**0.03711**	0.32940	0.06480	**0.44134**	2.50740	0.30000	**2.47403**
	C->Y (RF)	0.01860	0.00100	**0.03186**	0.32940	0.06480	**0.43390**	2.50740	0.30000	**2.46641**

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	**0.00576**	0.32940	0.06480	**0.00565**	2.50740	0.30000	**0.00512**
	B	0.01860	0.00100	**0.00441**	0.32940	0.06480	**0.00426**	2.50740	0.30000	**0.00365**
	C	0.01860	0.00100	**0.00283**	0.32940	0.06480	**0.00274**	2.50740	0.30000	**0.00219**

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	**0.00209**	0.32940	0.06480	**0.00176**	2.50740	0.30000	**0.00068**
	B	0.01860	0.00100	**0.00187**	0.32940	0.06480	**0.00167**	2.50740	0.30000	**0.00066**
	C	0.01860	0.00100	**0.00154**	0.32940	0.06480	**0.00146**	2.50740	0.30000	**0.00047**

NOR4

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00262	0.00257	0.00226	0.00234	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	209.17800	447.99400	995.89200

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	**0.17605**	0.32940	0.06480	**1.46070**	2.50740	0.30000	**6.32503**
	B->Y (FR)	0.01860	0.00100	**0.17024**	0.32940	0.06480	**1.45751**	2.50740	0.30000	**6.42925**
	C->Y (FR)	0.01860	0.00100	**0.15040**	0.32940	0.06480	**1.43901**	2.50740	0.30000	**6.52789**
	D->Y (FR)	0.01860	0.00100	**0.11059**	0.32940	0.06480	**1.40139**	2.50740	0.30000	**6.53195**

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	**0.03960**	0.32940	0.06480	**0.45005**	2.50740	0.30000	**2.48103**
	B->Y (RF)	0.01860	0.00100	**0.04084**	0.32940	0.06480	**0.44848**	2.50740	0.30000	**2.48106**
	C->Y (RF)	0.01860	0.00100	**0.03921**	0.32940	0.06480	**0.44228**	2.50740	0.30000	**2.48055**
	D->Y (RF)	0.01860	0.00100	**0.03356**	0.32940	0.06480	**0.43579**	2.50740	0.30000	**2.46843**

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	**0.00735**	0.32940	0.06480	**0.00719**	2.50740	0.30000	**0.00667**
	B	0.01860	0.00100	**0.00608**	0.32940	0.06480	**0.00592**	2.50740	0.30000	**0.00540**
	C	0.01860	0.00100	**0.00502**	0.32940	0.06480	**0.00486**	2.50740	0.30000	**0.00426**
	D	0.01860	0.00100	**0.00296**	0.32940	0.06480	**0.00282**	2.50740	0.30000	**0.00232**

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	**0.00258**	0.32940	0.06480	**0.00221**	2.50740	0.30000	**0.00109**
	B	0.01860	0.00100	**0.00239**	0.32940	0.06480	**0.00217**	2.50740	0.30000	**0.00108**
	C	0.01860	0.00100	**0.00158**	0.32940	0.06480	**0.00131**	2.50740	0.30000	**0.00075**
	D	0.01860	0.00100	**0.00031**	0.32940	0.06480	**0.00024**	2.50740	0.30000	**-0.00070**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00004**	0.32940	**-0.00007**	2.50740	**-0.00011**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00020**	0.32940	**0.00022**	2.50740	**0.00022**

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	**0.00004**	0.32940	**-0.00007**	2.50740	**-0.00011**

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	**0.00020**	0.32940	**0.00022**	2.50740	**0.00022**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00007**	0.32940	**-0.00007**	2.50740	**-0.00010**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00017**	0.32940	**0.00018**	2.50740	**0.00018**

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	**0.00007**	0.32940	**-0.00007**	2.50740	**-0.00010**

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	**0.00017**	0.32940	**0.00018**	2.50740	**0.00018**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00046**	0.32940	**0.00047**	2.50740	**0.00047**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00012**	0.32940	**-0.00013**	2.50740	**-0.00012**

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	**0.00046**	0.32940	**0.00047**	2.50740	**0.00047**

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	**-0.00012**	0.32940	**-0.00013**	2.50740	**-0.00012**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00129**	0.32940	**0.00130**	2.50740	**0.00130**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00037**	0.32940	**0.00037**	2.50740	**0.00039**

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	**0.00129**	0.32940	**0.00130**	2.50740	**0.00130**

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	**0.00037**	0.32940	**0.00037**	2.50740	**0.00039**

NP_ANT

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

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00113

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	3.56330	3.56330	3.56330

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	**-0.00029**	0.32940	**-0.00030**	2.50740	**-0.00030**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00029**	0.32940	**0.00030**	2.50740	**0.00030**

OR2

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00197	0.00195	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	323.45700	522.72800	660.04400

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	**0.08112**	0.32940	0.06480	**0.49516**	2.50740	0.30000	**1.86311**
	B->X (RR)	0.01860	0.00100	**0.07474**	0.32940	0.06480	**0.48045**	2.50740	0.30000	**1.80685**

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	**0.13763**	0.32940	0.06480	**0.50957**	2.50740	0.30000	**1.68785**
	B->X (FF)	0.01860	0.00100	**0.12946**	0.32940	0.06480	**0.50720**	2.50740	0.30000	**1.68870**

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	**0.00465**	0.32940	0.06480	**0.00448**	2.50740	0.30000	**0.00638**
	B	0.01860	0.00100	**0.00463**	0.32940	0.06480	**0.00451**	2.50740	0.30000	**0.00566**

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	**0.00593**	0.32940	0.06480	**0.00595**	2.50740	0.30000	**0.00664**
	B	0.01860	0.00100	**0.00476**	0.32940	0.06480	**0.00481**	2.50740	0.30000	**0.00620**

OR3

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00217	0.00214	0.00210	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	327.27400	560.77000	862.18200

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	**0.09533**	0.32940	0.06480	**0.52515**	2.50740	0.30000	**1.96750**
	B->X (RR)	0.01860	0.00100	**0.09034**	0.32940	0.06480	**0.51211**	2.50740	0.30000	**1.91582**
	C->X (RR)	0.01860	0.00100	**0.08190**	0.32940	0.06480	**0.49459**	2.50740	0.30000	**1.85897**

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	**0.20021**	0.32940	0.06480	**0.58268**	2.50740	0.30000	**1.75603**
	B->X (FF)	0.01860	0.00100	**0.19274**	0.32940	0.06480	**0.57853**	2.50740	0.30000	**1.77688**
	C->X (FF)	0.01860	0.00100	**0.17239**	0.32940	0.06480	**0.56019**	2.50740	0.30000	**1.75915**

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	**0.00509**	0.32940	0.06480	**0.00490**	2.50740	0.30000	**0.00656**
	B	0.01860	0.00100	**0.00483**	0.32940	0.06480	**0.00462**	2.50740	0.30000	**0.00622**
	C	0.01860	0.00100	**0.00468**	0.32940	0.06480	**0.00445**	2.50740	0.30000	**0.00618**

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	**0.00826**	0.32940	0.06480	**0.00827**	2.50740	0.30000	**0.00872**
	B	0.01860	0.00100	**0.00706**	0.32940	0.06480	**0.00699**	2.50740	0.30000	**0.00768**
	C	0.01860	0.00100	**0.00570**	0.32940	0.06480	**0.00567**	2.50740	0.30000	**0.00682**

OR4

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00218	0.00213	0.00185	0.00193	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	318.49500	547.84600	1023.39000

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	**0.09986**	0.32940	0.06480	**0.53897**	2.50740	0.30000	**2.01590**
	B->X (RR)	0.01860	0.00100	**0.09800**	0.32940	0.06480	**0.52963**	2.50740	0.30000	**1.97378**
	C->X (RR)	0.01860	0.00100	**0.09211**	0.32940	0.06480	**0.51654**	2.50740	0.30000	**1.92276**
	D->X (RR)	0.01860	0.00100	**0.08340**	0.32940	0.06480	**0.49850**	2.50740	0.30000	**1.86435**

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	**0.27816**	0.32940	0.06480	**0.68316**	2.50740	0.30000	**1.86601**
	B->X (FF)	0.01860	0.00100	**0.27137**	0.32940	0.06480	**0.67631**	2.50740	0.30000	**1.88747**
	C->X (FF)	0.01860	0.00100	**0.25136**	0.32940	0.06480	**0.65669**	2.50740	0.30000	**1.89629**
	D->X (FF)	0.01860	0.00100	**0.21591**	0.32940	0.06480	**0.62177**	2.50740	0.30000	**1.86255**

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	**0.00556**	0.32940	0.06480	**0.00547**	2.50740	0.30000	**0.00698**
	B	0.01860	0.00100	**0.00529**	0.32940	0.06480	**0.00517**	2.50740	0.30000	**0.00635**
	C	0.01860	0.00100	**0.00459**	0.32940	0.06480	**0.00442**	2.50740	0.30000	**0.00553**
	D	0.01860	0.00100	**0.00363**	0.32940	0.06480	**0.00343**	2.50740	0.30000	**0.00499**

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	**0.00898**	0.32940	0.06480	**0.00908**	2.50740	0.30000	**0.00945**
	B	0.01860	0.00100	**0.00836**	0.32940	0.06480	**0.00842**	2.50740	0.30000	**0.00880**
	C	0.01860	0.00100	**0.00730**	0.32940	0.06480	**0.00731**	2.50740	0.30000	**0.00807**
	D	0.01860	0.00100	**0.00523**	0.32940	0.06480	**0.00515**	2.50740	0.30000	**0.00670**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00006**	0.32940	**-0.00016**	2.50740	**-0.00020**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00067**	0.32940	**0.00069**	2.50740	**0.00068**

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	**-0.00006**	0.32940	**-0.00016**	2.50740	**-0.00020**

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	**0.00067**	0.32940	**0.00069**	2.50740	**0.00068**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00004**	0.32940	**-0.00013**	2.50740	**-0.00014**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00013**	0.32940	**0.00013**	2.50740	**0.00014**

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	**-0.00004**	0.32940	**-0.00013**	2.50740	**-0.00014**

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	**0.00013**	0.32940	**0.00013**	2.50740	**0.00014**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00031**	0.32940	**0.00032**	2.50740	**0.00032**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00002**	0.32940	**-0.00002**	2.50740	**-0.00002**

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	**0.00031**	0.32940	**0.00032**	2.50740	**0.00032**

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	**-0.00002**	0.32940	**-0.00002**	2.50740	**-0.00002**

Passive power(pJ) for D rising :

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

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00069**	0.32940	**0.00069**	2.50740	**0.00071**

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	**0.00106**	0.32940	**0.00107**	2.50740	**0.00107**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00069**	0.32940	**0.00069**	2.50740	**0.00071**

SDFRRS

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00157	0.00170	0.00301	0.00146	0.00451	0.00271	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	2642.51000	3706.55000	4660.47000

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_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.43707**	0.32940	0.06480	**0.83613**	2.50740	0.30000	**2.17462**
	SET_B->Q (FR)	0.01860	0.00100	**0.17783**	0.32940	0.06480	**0.59877**	2.50740	0.30000	**2.00702**

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	**0.36172**	0.32940	0.06480	**0.72484**	2.50740	0.30000	**1.93012**
	RESET_B->Q (FF)	0.01860	0.00100	**0.30161**	0.32940	0.06480	**0.68151**	2.50740	0.30000	**1.93840**

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	**0.43707**	0.32940	0.06480	**0.83613**	2.50740	0.30000	**2.17462**

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	**0.36172**	0.32940	0.06480	**0.72484**	2.50740	0.30000	**1.93012**

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	**0.29547**	0.32940	0.06480	**0.72700**	2.50740	0.30000	**2.08975**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.23393**	0.32940	0.06480	**0.69495**	2.50740	0.30000	**2.11725**

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	**0.36029**	0.32940	0.06480	**0.77926**	2.50740	0.30000	**1.96647**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.11600**	0.32940	0.06480	**0.53221**	2.50740	0.30000	**1.83525**

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	**0.29547**	0.32940	0.06480	**0.72700**	2.50740	0.30000	**2.08975**

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	**0.36029**	0.32940	0.06480	**0.77926**	2.50740	0.30000	**1.96647**

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	**-0.14182**	1.26300	1.26300	**-0.38047**	2.50740	2.50740	**-0.52242**
	setup	CLK (R)	0.01860	0.01860	**0.21273**	1.26300	1.26300	**0.42634**	2.50740	2.50740	**0.56965**

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	**-0.15160**	1.26300	1.26300	**-0.24555**	2.50740	2.50740	**-0.30106**
	setup	CLK (R)	0.01860	0.01860	**0.27142**	1.26300	1.26300	**0.36158**	2.50740	2.50740	**0.46044**

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	**-0.18094**	1.26300	1.26300	**-0.46952**	2.50740	2.50740	**-0.65524**
	setup	CLK (R)	0.01860	0.01860	**0.25430**	1.26300	1.26300	**0.50999**	2.50740	2.50740	**0.69951**

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	**-0.19806**	1.26300	1.26300	**-0.29682**	2.50740	2.50740	**-0.37484**
	setup	CLK (R)	0.01860	0.01860	**0.32277**	1.26300	1.26300	**0.41015**	2.50740	2.50740	**0.52242**

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	**-0.15405**	1.26300	1.26300	**-0.42364**	2.50740	2.50740	**-0.58440**
	setup	CLK (R)	0.01860	0.01860	**0.22740**	1.26300	1.26300	**0.46682**	2.50740	2.50740	**0.63458**

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	**-0.15160**	1.26300	1.26300	**-0.21047**	2.50740	2.50740	**-0.25678**
	setup	CLK (R)	0.01860	0.01860	**0.27142**	1.26300	1.26300	**0.32920**	2.50740	2.50740	**0.41617**

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	**0.12226**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.29515**
	removal	CLK (R)	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.23022**

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	**0.06358**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.59621**
	removal	CLK (R)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.11333**	2.50740	2.50740	**0.13872**
	hold	RESET_B (R)	0.01860	0.01860	**-0.11981**	1.26300	1.26300	**-0.31031**	2.50740	2.50740	**-0.39846**
	setup	RESET_B (R)	0.01860	0.01860	**0.15160**	1.26300	1.26300	**0.37777**	2.50740	2.50740	**0.49586**

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	**0.00768**	0.32940	0.06480	**0.00805**	2.50740	0.30000	**0.00818**
	SET_B	0.01860	0.00100	**0.02326**	0.32940	0.06480	**0.06021**	2.50740	0.30000	**0.20089**

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	**0.00775**	0.32940	0.06480	**0.00790**	2.50740	0.30000	**0.00722**
	RESET_B	0.01860	0.00100	**0.02645**	0.32940	0.06480	**0.06369**	2.50740	0.30000	**0.20082**

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	**0.00768**	0.32940	0.06480	**0.00805**	2.50740	0.30000	**0.00818**

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	**0.00775**	0.32940	0.06480	**0.00790**	2.50740	0.30000	**0.00722**

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	**0.00763**	0.32940	0.06480	**0.00787**	2.50740	0.30000	**0.00767**
	RESET_B	0.01860	0.00100	**0.02646**	0.32940	0.06480	**0.06388**	2.50740	0.30000	**0.20211**

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	**0.00768**	0.32940	0.06480	**0.00793**	2.50740	0.30000	**0.00741**
	SET_B	0.01860	0.00100	**0.02325**	0.32940	0.06480	**0.05997**	2.50740	0.30000	**0.19944**

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	**0.00763**	0.32940	0.06480	**0.00787**	2.50740	0.30000	**0.00767**

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	**0.00768**	0.32940	0.06480	**0.00793**	2.50740	0.30000	**0.00741**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00439**	0.32940	**0.00417**	2.50740	**0.00531**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00381**	0.32940	**0.00363**	2.50740	**0.00467**

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	**0.00803**	0.32940	**0.00778**	2.50740	**0.00902**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00439**	0.32940	**0.00417**	2.50740	**0.00531**

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	**0.00858**	0.32940	**0.00835**	2.50740	**0.00955**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00381**	0.32940	**0.00363**	2.50740	**0.00467**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00571**	0.32940	**0.00556**	2.50740	**0.00620**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00626**	0.32940	**0.00616**	2.50740	**0.00675**

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	**0.00933**	0.32940	**0.00918**	2.50740	**0.00987**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00571**	0.32940	**0.00556**	2.50740	**0.00620**

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	**0.01144**	0.32940	**0.01103**	2.50740	**0.01175**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00626**	0.32940	**0.00616**	2.50740	**0.00675**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00955**	0.32940	**0.00928**	2.50740	**0.01225**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00244**	0.32940	**0.00827**	2.50740	**0.02155**

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	**0.01086**	0.32940	**0.01075**	2.50740	**0.01235**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01434**	0.32940	**0.01360**	2.50740	**0.01520**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00955**	0.32940	**0.00928**	2.50740	**0.01225**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00590**	0.32940	**0.00566**	2.50740	**0.00851**

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	**0.01088**	0.32940	**0.01075**	2.50740	**0.01221**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01206**	0.32940	**0.01707**	2.50740	**0.01901**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00244**	0.32940	**0.00827**	2.50740	**0.02155**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00613**	0.32940	**0.00597**	2.50740	**0.00826**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00871**	0.32940	**0.00843**	2.50740	**0.01179**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01046**	0.32940	**0.01014**	2.50740	**0.01354**

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	**0.00871**	0.32940	**0.00843**	2.50740	**0.01179**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01151**	0.32940	**0.01118**	2.50740	**0.01444**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.00865**	0.32940	**0.00831**	2.50740	**0.01166**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.00871**	0.32940	**0.00843**	2.50740	**0.01179**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00873**	0.32940	**0.00840**	2.50740	**0.01177**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.00864**	0.32940	**0.00830**	2.50740	**0.01166**

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	**0.00724**	0.32940	**0.00692**	2.50740	**0.01007**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01371**	0.32940	**0.01329**	2.50740	**0.01645**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01046**	0.32940	**0.01014**	2.50740	**0.01354**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01524**	0.32940	**0.01491**	2.50740	**0.01832**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.00753**	0.32940	**0.00722**	2.50740	**0.01042**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.00724**	0.32940	**0.00692**	2.50740	**0.01007**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00746**	0.32940	**0.00716**	2.50740	**0.01036**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.00750**	0.32940	**0.00719**	2.50740	**0.01040**

TIE0

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

Footprint

Cell Name	Area
sg13g2_tielo	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_LO
sg13g2_tielo	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tielo	12.59420	12.59420	12.59420

TIE1

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

Footprint

Cell Name	Area
sg13g2_tiehi	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_HI
sg13g2_tiehi	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tiehi	14.33120	14.33120	14.33120

XNOR2_1

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00478	0.00429	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	279.14600	857.20400	1222.54000

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	**0.10922**	0.32940	0.06480	**0.51172**	2.50740	0.30000	**1.86441**
	A->Y (FR)	0.01860	0.00100	**0.07837**	0.32940	0.06480	**0.78643**	2.50740	0.30000	**3.75475**
	B->Y (RR)	0.01860	0.00100	**0.10189**	0.32940	0.06480	**0.50197**	2.50740	0.30000	**1.82811**
	B->Y (FR)	0.01860	0.00100	**0.06998**	0.32940	0.06480	**0.78737**	2.50740	0.30000	**3.87308**

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	**0.10409**	0.32940	0.06480	**0.67119**	2.50740	0.30000	**2.56041**
	A->Y (RF)	0.01860	0.00100	**0.06896**	0.32940	0.06480	**0.64696**	2.50740	0.30000	**3.20098**
	B->Y (FF)	0.01860	0.00100	**0.10633**	0.32940	0.06480	**0.65672**	2.50740	0.30000	**2.51787**
	B->Y (RF)	0.01860	0.00100	**0.05868**	0.32940	0.06480	**0.63410**	2.50740	0.30000	**3.18194**

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	**0.00595**	0.32940	0.06480	**0.00576**	2.50740	0.30000	**0.00745**
	B	0.01860	0.00100	**0.00594**	0.32940	0.06480	**0.00555**	2.50740	0.30000	**0.00734**

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	**0.00546**	0.32940	0.06480	**0.00549**	2.50740	0.30000	**0.00700**
	B	0.01860	0.00100	**0.00619**	0.32940	0.06480	**0.00510**	2.50740	0.30000	**0.00642**

XOR2_1

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, 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	0.00496	0.00438	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	674.44000	861.65800	1243.38000

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	**0.10644**	0.32940	0.06480	**0.82199**	2.50740	0.30000	**3.30549**
	A->X (FR)	0.01860	0.00100	**0.08712**	0.32940	0.06480	**0.79862**	2.50740	0.30000	**3.77510**
	B->X (RR)	0.01860	0.00100	**0.11131**	0.32940	0.06480	**0.80524**	2.50740	0.30000	**3.24628**
	B->X (FR)	0.01860	0.00100	**0.07584**	0.32940	0.06480	**0.78535**	2.50740	0.30000	**3.75466**

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	**0.13132**	0.32940	0.06480	**0.49608**	2.50740	0.30000	**1.63873**
	A->X (RF)	0.01860	0.00100	**0.06571**	0.32940	0.06480	**0.64307**	2.50740	0.30000	**3.18701**
	B->X (FF)	0.01860	0.00100	**0.12255**	0.32940	0.06480	**0.48902**	2.50740	0.30000	**1.63149**
	B->X (RF)	0.01860	0.00100	**0.05787**	0.32940	0.06480	**0.63818**	2.50740	0.30000	**3.24485**

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	**0.00540**	0.32940	0.06480	**0.00533**	2.50740	0.30000	**0.00690**
	B	0.01860	0.00100	**0.00575**	0.32940	0.06480	**0.00474**	2.50740	0.30000	**0.00671**

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	**0.00679**	0.32940	0.06480	**0.00675**	2.50740	0.30000	**0.00800**
	B	0.01860	0.00100	**0.00634**	0.32940	0.06480	**0.00603**	2.50740	0.30000	**0.00800**