sg13g2_stdcell_typ_1p50V_25C 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_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00252	0.00246	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	314.37000	392.89200	489.17900

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	**0.04330**	0.32940	0.06480	**0.23373**	2.50740	0.30000	**0.85611**
	B->X (RR)	0.01860	0.00100	**0.04657**	0.32940	0.06480	**0.22992**	2.50740	0.30000	**0.82988**

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	**0.03873**	0.32940	0.06480	**0.20745**	2.50740	0.30000	**0.72898**
	B->X (FF)	0.01860	0.00100	**0.04256**	0.32940	0.06480	**0.21882**	2.50740	0.30000	**0.76721**

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	**0.00983**	0.32940	0.06480	**0.01307**	2.50740	0.30000	**0.04574**
	B	0.01860	0.00100	**0.01208**	0.32940	0.06480	**0.01435**	2.50740	0.30000	**0.04664**

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	**0.00859**	0.32940	0.06480	**0.01218**	2.50740	0.30000	**0.04549**
	B	0.01860	0.00100	**0.00893**	0.32940	0.06480	**0.01224**	2.50740	0.30000	**0.04555**

AND3

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00252	0.00242	0.00245	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	317.50100	437.22200	686.65700

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	**0.05666**	0.32940	0.06480	**0.25998**	2.50740	0.30000	**0.93077**
	B->X (RR)	0.01860	0.00100	**0.06305**	0.32940	0.06480	**0.25887**	2.50740	0.30000	**0.91640**
	C->X (RR)	0.01860	0.00100	**0.06588**	0.32940	0.06480	**0.25199**	2.50740	0.30000	**0.87484**

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	**0.04128**	0.32940	0.06480	**0.21266**	2.50740	0.30000	**0.71489**
	B->X (FF)	0.01860	0.00100	**0.04527**	0.32940	0.06480	**0.22377**	2.50740	0.30000	**0.74893**
	C->X (FF)	0.01860	0.00100	**0.04778**	0.32940	0.06480	**0.23326**	2.50740	0.30000	**0.78902**

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	**0.01137**	0.32940	0.06480	**0.01388**	2.50740	0.30000	**0.04467**
	B	0.01860	0.00100	**0.01357**	0.32940	0.06480	**0.01509**	2.50740	0.30000	**0.04553**
	C	0.01860	0.00100	**0.01572**	0.32940	0.06480	**0.01708**	2.50740	0.30000	**0.04806**

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	**0.00876**	0.32940	0.06480	**0.01189**	2.50740	0.30000	**0.04293**
	B	0.01860	0.00100	**0.00921**	0.32940	0.06480	**0.01201**	2.50740	0.30000	**0.04261**
	C	0.01860	0.00100	**0.00945**	0.32940	0.06480	**0.01242**	2.50740	0.30000	**0.04498**

AND4

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00213	0.00207	0.00245	0.00246	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	321.02100	465.11400	884.36000

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	**0.07090**	0.32940	0.06480	**0.28676**	2.50740	0.30000	**1.00601**
	B->X (RR)	0.01860	0.00100	**0.07994**	0.32940	0.06480	**0.28786**	2.50740	0.30000	**0.99559**
	C->X (RR)	0.01860	0.00100	**0.08520**	0.32940	0.06480	**0.28278**	2.50740	0.30000	**0.96034**
	D->X (RR)	0.01860	0.00100	**0.08808**	0.32940	0.06480	**0.27674**	2.50740	0.30000	**0.91290**

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	**0.04348**	0.32940	0.06480	**0.21595**	2.50740	0.30000	**0.69892**
	B->X (FF)	0.01860	0.00100	**0.04743**	0.32940	0.06480	**0.22645**	2.50740	0.30000	**0.73164**
	C->X (FF)	0.01860	0.00100	**0.05023**	0.32940	0.06480	**0.23546**	2.50740	0.30000	**0.76643**
	D->X (FF)	0.01860	0.00100	**0.05217**	0.32940	0.06480	**0.24381**	2.50740	0.30000	**0.80492**

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	**0.01312**	0.32940	0.06480	**0.01525**	2.50740	0.30000	**0.04417**
	B	0.01860	0.00100	**0.01574**	0.32940	0.06480	**0.01700**	2.50740	0.30000	**0.04505**
	C	0.01860	0.00100	**0.01682**	0.32940	0.06480	**0.01755**	2.50740	0.30000	**0.04783**
	D	0.01860	0.00100	**0.01661**	0.32940	0.06480	**0.01708**	2.50740	0.30000	**0.04686**

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	**0.00772**	0.32940	0.06480	**0.01046**	2.50740	0.30000	**0.03990**
	B	0.01860	0.00100	**0.00819**	0.32940	0.06480	**0.01068**	2.50740	0.30000	**0.04014**
	C	0.01860	0.00100	**0.00976**	0.32940	0.06480	**0.01214**	2.50740	0.30000	**0.04287**
	D	0.01860	0.00100	**0.00974**	0.32940	0.06480	**0.01218**	2.50740	0.30000	**0.04424**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00058**	0.32940	**-0.00057**	2.50740	**-0.00057**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00176**	0.32940	**0.00178**	2.50740	**0.00178**

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	**-0.00058**	0.32940	**-0.00057**	2.50740	**-0.00057**

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	**0.00176**	0.32940	**0.00178**	2.50740	**0.00178**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00083**	0.32940	**-0.00083**	2.50740	**-0.00083**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00148**	0.32940	**0.00150**	2.50740	**0.00151**

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	**-0.00083**	0.32940	**-0.00083**	2.50740	**-0.00083**

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	**0.00148**	0.32940	**0.00150**	2.50740	**0.00151**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00023**	0.32940	**0.00024**	2.50740	**0.00024**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00011**	0.32940	**0.00012**	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_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00023**	0.32940	**0.00024**	2.50740	**0.00024**

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	**0.00011**	0.32940	**0.00012**	2.50740	**0.00012**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00256**	0.32940	**0.00259**	2.50740	**0.00260**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00041**	0.32940	**0.00038**	2.50740	**0.00035**

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	**0.00256**	0.32940	**0.00259**	2.50740	**0.00260**

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	**0.00041**	0.32940	**0.00038**	2.50740	**0.00035**

AO21

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00270	0.00281	0.00240	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	405.34200	458.03200	521.30600

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	**0.05318**	0.32940	0.06480	**0.25661**	2.50740	0.30000	**0.90963**
	A2->X (RR)	0.01860	0.00100	**0.05604**	0.32940	0.06480	**0.24908**	2.50740	0.30000	**0.87723**
	B1->X (RR)	0.01860	0.00100	**0.03612**	0.32940	0.06480	**0.22310**	2.50740	0.30000	**0.79119**

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	**0.06122**	0.32940	0.06480	**0.22730**	2.50740	0.30000	**0.75715**
	A2->X (FF)	0.01860	0.00100	**0.06774**	0.32940	0.06480	**0.23945**	2.50740	0.30000	**0.79285**
	B1->X (FF)	0.01860	0.00100	**0.06023**	0.32940	0.06480	**0.24845**	2.50740	0.30000	**0.85822**

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	**0.03612**	0.32940	0.06480	**0.22310**	2.50740	0.30000	**0.79119**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03409**	0.32940	0.06480	**0.21314**	2.50740	0.30000	**0.76104**

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	**0.06023**	0.32940	0.06480	**0.24845**	2.50740	0.30000	**0.85822**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.05275**	0.32940	0.06480	**0.23359**	2.50740	0.30000	**0.82800**

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	**0.01107**	0.32940	0.06480	**0.01355**	2.50740	0.30000	**0.04627**
	A2	0.01860	0.00100	**0.01334**	0.32940	0.06480	**0.01516**	2.50740	0.30000	**0.04676**
	B1	0.01860	0.00100	**0.00805**	0.32940	0.06480	**0.01132**	2.50740	0.30000	**0.04655**

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	**0.01259**	0.32940	0.06480	**0.01438**	2.50740	0.30000	**0.04836**
	A2	0.01860	0.00100	**0.01273**	0.32940	0.06480	**0.01434**	2.50740	0.30000	**0.04776**
	B1	0.01860	0.00100	**0.00871**	0.32940	0.06480	**0.01237**	2.50740	0.30000	**0.04596**

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	**0.01034**	0.32940	0.06480	**0.01347**	2.50740	0.30000	**0.04889**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00805**	0.32940	0.06480	**0.01132**	2.50740	0.30000	**0.04655**

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	**0.00904**	0.32940	0.06480	**0.01225**	2.50740	0.30000	**0.04703**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00871**	0.32940	0.06480	**0.01237**	2.50740	0.30000	**0.04596**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**-0.00009**	0.32940	**-0.00004**	2.50740	**-0.00004**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00040**	0.32940	**0.00039**	2.50740	**0.00039**

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	**0.00018**	0.32940	**-0.00006**	2.50740	**-0.00013**
	(!A2 * B1)	0.01860	**-0.00009**	0.32940	**-0.00004**	2.50740	**-0.00004**

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	**0.00077**	0.32940	**0.00077**	2.50740	**0.00076**
	(!A2 * B1)	0.01860	**0.00040**	0.32940	**0.00039**	2.50740	**0.00039**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00005**	0.32940	**0.00003**	2.50740	**0.00004**

Passive power(pJ) for A2 falling :

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

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	**0.00027**	0.32940	**0.00002**	2.50740	**-0.00005**
	(!A1 * B1)	0.01860	**0.00005**	0.32940	**0.00003**	2.50740	**0.00004**

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	**0.00069**	0.32940	**0.00069**	2.50740	**0.00068**
	(!A1 * B1)	0.01860	**0.00030**	0.32940	**0.00031**	2.50740	**0.00031**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00124**	0.32940	**0.00127**	2.50740	**0.00128**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00101**	0.32940	**0.00103**	2.50740	**0.00104**

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	**0.00124**	0.32940	**0.00127**	2.50740	**0.00128**

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	**0.00101**	0.32940	**0.00103**	2.50740	**0.00104**

BTLx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00594	0.01664	2.40000
sg13g2_ebufn_4	0.00308	0.01009	1.20000
sg13g2_ebufn_2	0.00264	0.00615	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	590.42200	2069.18000	3795.96000
sg13g2_ebufn_4	416.07500	1118.50000	1944.92000
sg13g2_ebufn_2	331.86200	683.06500	1042.43000

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	0.02015	**0.04625**	0.32940	0.53755	**0.39660**	2.50740	2.41915	**1.51658**
	TE_B->Z (RR)	0.01860	0.02015	**0.04966**	0.32940	0.53755	**0.12414**	2.50740	2.41915	**0.25739**
	TE_B->Z (FR)	0.01860	0.02015	**0.02570**	0.32940	0.53755	**0.37327**	2.50740	2.41915	**1.86729**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01070	**0.04722**	0.32940	0.26891	**0.39565**	2.50740	1.20970	**1.50873**
	TE_B->Z (RR)	0.01860	0.01070	**0.03821**	0.32940	0.26891	**0.09158**	2.50740	1.20970	**0.17739**
	TE_B->Z (FR)	0.01860	0.01070	**0.02537**	0.32940	0.26891	**0.37074**	2.50740	1.20970	**1.85703**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00595	**0.04113**	0.32940	0.13455	**0.37063**	2.50740	0.60495	**1.46255**
	TE_B->Z (RR)	0.01860	0.00595	**0.03282**	0.32940	0.13455	**0.07512**	2.50740	0.60495	**0.14255**
	TE_B->Z (FR)	0.01860	0.00595	**0.02576**	0.32940	0.13455	**0.37004**	2.50740	0.60495	**1.85917**

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	0.02954	**0.05937**	0.32940	0.54694	**0.33486**	2.50740	2.42854	**1.19254**
	TE_B->Z (RF)	0.01860	0.02954	**0.02481**	0.32940	0.54694	**-0.20833**	2.50740	2.42854	**-1.89467**
	TE_B->Z (FF)	0.01860	0.02954	**0.05655**	0.32940	0.54694	**0.29930**	2.50740	2.42854	**1.01493**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01550	**0.06071**	0.32940	0.27370	**0.33626**	2.50740	1.21450	**1.19233**
	TE_B->Z (RF)	0.01860	0.01550	**0.02018**	0.32940	0.27370	**-0.20739**	2.50740	1.21450	**-1.89380**
	TE_B->Z (FF)	0.01860	0.01550	**0.04289**	0.32940	0.27370	**0.25926**	2.50740	1.21450	**0.92169**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00841	**0.04617**	0.32940	0.13701	**0.29842**	2.50740	0.60741	**1.11028**
	TE_B->Z (RF)	0.01860	0.00841	**0.01422**	0.32940	0.13701	**-0.21967**	2.50740	0.60741	**-1.90599**
	TE_B->Z (FF)	0.01860	0.00841	**0.03666**	0.32940	0.13701	**0.23295**	2.50740	0.60741	**0.85831**

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	0.02015	**0.05365**	0.32940	0.53755	**0.06394**	2.50740	2.41915	**0.07416**
	TE_B	0.01860	0.02015	**0.00766**	0.32940	0.53755	**0.00452**	2.50740	2.41915	**-0.00068**
sg13g2_ebufn_4	A	0.01860	0.01070	**0.02692**	0.32940	0.26891	**0.03133**	2.50740	1.20970	**0.02830**
	TE_B	0.01860	0.01070	**0.00367**	0.32940	0.26891	**0.00244**	2.50740	1.20970	**0.00000**
sg13g2_ebufn_2	A	0.01860	0.00595	**0.01377**	0.32940	0.13455	**0.01559**	2.50740	0.60495	**0.01474**
	TE_B	0.01860	0.00595	**0.00185**	0.32940	0.13455	**0.00116**	2.50740	0.60495	**0.00000**

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	0.02954	**0.05736**	0.32940	0.54694	**0.05579**	2.50740	2.42854	**0.05366**
	TE_B	0.01860	0.02954	**0.00148**	0.32940	0.54694	**-0.00172**	2.50740	2.42854	**0.00416**
sg13g2_ebufn_4	A	0.01860	0.01550	**0.02884**	0.32940	0.27370	**0.02816**	2.50740	1.21450	**0.02388**
	TE_B	0.01860	0.01550	**0.00068**	0.32940	0.27370	**-0.00030**	2.50740	1.21450	**0.00000**
sg13g2_ebufn_2	A	0.01860	0.00841	**0.01371**	0.32940	0.13701	**0.01359**	2.50740	0.60741	**0.01524**
	TE_B	0.01860	0.00841	**0.00036**	0.32940	0.13701	**-0.00009**	2.50740	0.60741	**0.00071**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01493**	0.32940	**0.02346**	2.50740	**0.11732**
sg13g2_ebufn_4	0.01860	**0.00819**	0.32940	**0.01235**	2.50740	**0.05916**
sg13g2_ebufn_2	0.01860	**0.00500**	0.32940	**0.00909**	2.50740	**0.05046**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01189**	0.32940	**0.02127**	2.50740	**0.11436**
sg13g2_ebufn_4	0.01860	**0.00627**	0.32940	**0.01086**	2.50740	**0.05726**
sg13g2_ebufn_2	0.01860	**0.00418**	0.32940	**0.00857**	2.50740	**0.04947**

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	**-0.00607**	0.32940	**-0.00470**	2.50740	**0.03840**
sg13g2_ebufn_4	0.01860	**-0.00135**	0.32940	**0.00146**	2.50740	**0.04724**
sg13g2_ebufn_2	0.01860	**0.00018**	0.32940	**0.00348**	2.50740	**0.04429**

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	**0.08254**	0.32940	**0.08752**	2.50740	**0.13143**
sg13g2_ebufn_4	0.01860	**0.04261**	0.32940	**0.04749**	2.50740	**0.09339**
sg13g2_ebufn_2	0.01860	**0.02230**	0.32940	**0.02690**	2.50740	**0.06746**

BUx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_16	0.01780	4.80000
sg13g2_buf_8	0.00889	2.40000
sg13g2_buf_4	0.00377	1.20000
sg13g2_buf_2	0.00262	0.60000
sg13g2_buf_1	0.00226	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	2952.76000	3691.98000	4431.20000
sg13g2_buf_8	1476.39000	1845.99000	2215.60000
sg13g2_buf_4	678.31600	883.10300	1087.89000
sg13g2_buf_2	397.47500	481.44300	565.41000
sg13g2_buf_1	270.75000	290.44400	310.13800

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	**0.03909**	0.32940	1.03680	**0.24335**	2.50740	4.80000	**0.87116**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.03850**	0.32940	0.51840	**0.24209**	2.50740	2.40000	**0.86956**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.04841**	0.32940	0.25920	**0.27086**	2.50740	1.20000	**0.98789**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.03814**	0.32940	0.12960	**0.23784**	2.50740	0.60000	**0.86323**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.03411**	0.32940	0.06480	**0.21869**	2.50740	0.30000	**0.81970**

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	**0.04429**	0.32940	1.03680	**0.23419**	2.50740	4.80000	**0.79601**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.04352**	0.32940	0.51840	**0.23335**	2.50740	2.40000	**0.79581**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.04283**	0.32940	0.25920	**0.22670**	2.50740	1.20000	**0.72347**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.04175**	0.32940	0.12960	**0.22283**	2.50740	0.60000	**0.76297**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.03667**	0.32940	0.06480	**0.20150**	2.50740	0.30000	**0.72267**

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	**0.12033**	0.32940	1.03680	**0.14524**	2.50740	4.80000	**0.41395**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.05829**	0.32940	0.51840	**0.07139**	2.50740	2.40000	**0.20373**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02887**	0.32940	0.25920	**0.03386**	2.50740	1.20000	**0.08763**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01500**	0.32940	0.12960	**0.01887**	2.50740	0.60000	**0.05738**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00856**	0.32940	0.06480	**0.01197**	2.50740	0.30000	**0.04490**

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	**0.11673**	0.32940	1.03680	**0.14669**	2.50740	4.80000	**0.42417**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.05750**	0.32940	0.51840	**0.07234**	2.50740	2.40000	**0.21441**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02874**	0.32940	0.25920	**0.03453**	2.50740	1.20000	**0.09150**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01475**	0.32940	0.12960	**0.01910**	2.50740	0.60000	**0.06005**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00868**	0.32940	0.06480	**0.01240**	2.50740	0.30000	**0.04576**

DECAPx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	1670.71000	1670.71000	1670.71000
sg13g2_decap_8	3341.40000	3341.40000	3341.40000

DFFRRx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_2	54.43200
sg13g2_dfrbp_1	47.17440

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	CLK	Q	Q_N
sg13g2_dfrbp_2	0.00142	0.00519	0.00290	0.60000	0.60000
sg13g2_dfrbp_1	0.00149	0.00571	0.00272	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	1666.35000	1911.40000	2129.32000
sg13g2_dfrbp_1	1278.45000	1513.75000	1738.43000

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	**0.15600**	0.32940	0.12960	**0.34254**	2.50740	0.60000	**0.94248**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.12220**	0.32940	0.06480	**0.30899**	2.50740	0.30000	**0.87899**

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	**0.13438**	0.32940	0.12960	**0.30200**	2.50740	0.60000	**0.78213**
	RESET_B->Q (FF)	0.01860	0.00100	**0.18262**	0.32940	0.12960	**0.38930**	2.50740	0.60000	**1.03321**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.11518**	0.32940	0.06480	**0.27935**	2.50740	0.30000	**0.73696**
	RESET_B->Q (FF)	0.01860	0.00100	**0.15795**	0.32940	0.06480	**0.36093**	2.50740	0.30000	**0.99347**

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	**0.08963**	0.32940	0.12960	**0.30078**	2.50740	0.60000	**0.86948**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.13868**	0.32940	0.12960	**0.38704**	2.50740	0.60000	**1.12036**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.08807**	0.32940	0.06480	**0.28939**	2.50740	0.30000	**0.83643**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.13107**	0.32940	0.06480	**0.36988**	2.50740	0.30000	**1.09337**

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	**0.10100**	0.32940	0.12960	**0.31232**	2.50740	0.60000	**0.82601**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.09164**	0.32940	0.06480	**0.28541**	2.50740	0.30000	**0.77308**

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	**-0.02934**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.17119**
	setup	**CLK (R)**	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.17000**	2.50740	2.50740	**0.21251**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03179**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.19480**
	setup	**CLK (R)**	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.18079**	2.50740	2.50740	**0.23908**

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	**-0.01956**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.22727**
	setup	**CLK (R)**	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.20777**	2.50740	2.50740	**0.30106**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.21317**	2.50740	2.50740	**0.31582**

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	**0.07825**	1.26300	1.26300	**0.20777**	2.50740	2.50740	**0.31877**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.19968**	2.50740	2.50740	**-0.30991**
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.22127**	2.50740	2.50740	**0.34828**
	removal	**CLK (R)**	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.20238**	2.50740	2.50740	**-0.32762**

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	**0.04473**	0.32940	0.12960	**0.18753**	2.50740	0.60000	**0.72543**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02938**	0.32940	0.06480	**0.10158**	2.50740	0.30000	**0.36919**

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	**0.04299**	0.32940	0.12960	**0.18801**	2.50740	0.60000	**0.72024**
	RESET_B	0.01860	0.00100	**0.04622**	0.32940	0.12960	**0.19286**	2.50740	0.60000	**0.74734**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02797**	0.32940	0.06480	**0.10060**	2.50740	0.30000	**0.36837**
	RESET_B	0.01860	0.00100	**0.03079**	0.32940	0.06480	**0.10528**	2.50740	0.30000	**0.39534**

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	**0.04303**	0.32940	0.12960	**0.18873**	2.50740	0.60000	**0.71976**
	RESET_B	0.01860	0.00100	**0.04626**	0.32940	0.12960	**0.19381**	2.50740	0.60000	**0.74423**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02798**	0.32940	0.06480	**0.10143**	2.50740	0.30000	**0.36750**
	RESET_B	0.01860	0.00100	**0.03075**	0.32940	0.06480	**0.10581**	2.50740	0.30000	**0.39204**

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	**0.04477**	0.32940	0.12960	**0.18644**	2.50740	0.60000	**0.72698**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02937**	0.32940	0.06480	**0.10115**	2.50740	0.30000	**0.37175**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00238**	0.32940	**0.00417**	2.50740	**0.02238**
sg13g2_dfrbp_1	0.01860	**0.00248**	0.32940	**0.00422**	2.50740	**0.02239**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00210**	0.32940	**0.00400**	2.50740	**0.02239**
sg13g2_dfrbp_1	0.01860	**0.00225**	0.32940	**0.00413**	2.50740	**0.02246**

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	**0.00238**	0.32940	**0.00417**	2.50740	**0.02238**
	(!CLK * RESET_B)	0.01860	**0.01754**	0.32940	**0.01939**	2.50740	**0.04100**
	(!CLK * !RESET_B)	0.01860	**-0.00033**	0.32940	**-0.00034**	2.50740	**-0.00033**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00248**	0.32940	**0.00422**	2.50740	**0.02239**
	(!CLK * RESET_B)	0.01860	**0.01535**	0.32940	**0.01726**	2.50740	**0.03866**
	(!CLK * !RESET_B)	0.01860	**-0.00021**	0.32940	**-0.00022**	2.50740	**-0.00021**

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	**0.00210**	0.32940	**0.00400**	2.50740	**0.02239**
	(!CLK * RESET_B)	0.01860	**0.01429**	0.32940	**0.01631**	2.50740	**0.03850**
	(!CLK * !RESET_B)	0.01860	**0.00072**	0.32940	**0.00074**	2.50740	**0.00074**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00225**	0.32940	**0.00413**	2.50740	**0.02246**
	(!CLK * RESET_B)	0.01860	**0.01309**	0.32940	**0.01516**	2.50740	**0.03708**
	(!CLK * !RESET_B)	0.01860	**0.00064**	0.32940	**0.00066**	2.50740	**0.00066**

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	**0.00583**	0.32940	**0.00687**	2.50740	**0.02447**
sg13g2_dfrbp_1	0.01860	**0.00644**	0.32940	**0.00747**	2.50740	**0.02498**

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	**0.01417**	0.32940	**0.01574**	2.50740	**0.04385**
sg13g2_dfrbp_1	0.01860	**0.01242**	0.32940	**0.01397**	2.50740	**0.04209**

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	**0.00583**	0.32940	**0.00687**	2.50740	**0.02447**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00196**	0.32940	**0.00191**	2.50740	**0.00191**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02135**	0.32940	**0.02284**	2.50740	**0.05014**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00205**	0.32940	**0.00199**	2.50740	**0.00199**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00644**	0.32940	**0.00747**	2.50740	**0.02498**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00256**	0.32940	**0.00250**	2.50740	**0.00250**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01966**	0.32940	**0.02116**	2.50740	**0.04868**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00267**	0.32940	**0.00260**	2.50740	**0.00260**

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	**0.06008**	0.32940	**0.06444**	2.50740	**0.11585**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00081**	0.32940	**-0.00104**	2.50740	**-0.00112**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01417**	0.32940	**0.01574**	2.50740	**0.04385**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00105**	0.32940	**-0.00119**	2.50740	**-0.00124**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.04239**	0.32940	**0.04661**	2.50740	**0.09707**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00140**	0.32940	**-0.00162**	2.50740	**-0.00171**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01242**	0.32940	**0.01397**	2.50740	**0.04209**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00159**	0.32940	**-0.00176**	2.50740	**-0.00183**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01630**	0.32940	**0.02074**	2.50740	**0.07095**
sg13g2_dfrbp_1	0.01860	**0.01598**	0.32940	**0.02004**	2.50740	**0.06683**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.03060**	0.32940	**0.03549**	2.50740	**0.08708**
sg13g2_dfrbp_1	0.01860	**0.02740**	0.32940	**0.03197**	2.50740	**0.08074**

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	**0.01630**	0.32940	**0.02074**	2.50740	**0.07095**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01711**	0.32940	**0.02156**	2.50740	**0.07168**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01599**	0.32940	**0.02043**	2.50740	**0.07058**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01716**	0.32940	**0.02149**	2.50740	**0.07169**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01638**	0.32940	**0.02045**	2.50740	**0.06732**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01594**	0.32940	**0.02001**	2.50740	**0.06682**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01559**	0.32940	**0.01967**	2.50740	**0.06653**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01598**	0.32940	**0.02004**	2.50740	**0.06683**

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	**0.03060**	0.32940	**0.03549**	2.50740	**0.08708**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03061**	0.32940	**0.03548**	2.50740	**0.08712**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01587**	0.32940	**0.02059**	2.50740	**0.07032**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00938**	0.32940	**0.07875**	2.50740	**0.12834**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01584**	0.32940	**0.02060**	2.50740	**0.07036**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01587**	0.32940	**0.02059**	2.50740	**0.07031**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.02741**	0.32940	**0.03202**	2.50740	**0.08072**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02740**	0.32940	**0.03197**	2.50740	**0.08074**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01504**	0.32940	**0.01949**	2.50740	**0.06619**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00844**	0.32940	**0.06209**	2.50740	**0.10866**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01500**	0.32940	**0.01949**	2.50740	**0.06621**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01504**	0.32940	**0.01948**	2.50740	**0.06618**

DLHQ

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00224	0.00232	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	928.97600	1021.47000	1136.46000

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	**0.11588**	0.32940	0.06480	**0.29685**	2.50740	0.30000	**0.85868**
	GATE->Q (RR)	0.01860	0.00100	**0.09777**	0.32940	0.06480	**0.27885**	2.50740	0.30000	**0.79869**

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	**0.10213**	0.32940	0.06480	**0.26409**	2.50740	0.30000	**0.74518**
	GATE->Q (RF)	0.01860	0.00100	**0.10338**	0.32940	0.06480	**0.26102**	2.50740	0.30000	**0.67859**

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	**-0.06113**	1.26300	1.26300	**-0.10794**	2.50740	2.50740	**-0.10330**
	setup	GATE (F)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.15651**	2.50740	2.50740	**0.18595**

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	**-0.02445**	1.26300	1.26300	**0.02159**	2.50740	2.50740	**0.06198**
	setup	GATE (F)	0.01860	0.01860	**0.03179**	1.26300	1.26300	**-0.01349**	2.50740	2.50740	**-0.05608**

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	**0.02224**	0.32940	0.06480	**0.02257**	2.50740	0.30000	**0.02343**
	GATE	0.01860	0.00100	**0.01857**	0.32940	0.06480	**0.01898**	2.50740	0.30000	**0.02247**

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	**0.02321**	0.32940	0.06480	**0.02396**	2.50740	0.30000	**0.02619**
	GATE	0.01860	0.00100	**0.02014**	0.32940	0.06480	**0.02112**	2.50740	0.30000	**0.02213**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00559**	0.32940	**0.00879**	2.50740	**0.04292**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00547**	0.32940	**0.00879**	2.50740	**0.04262**

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	**0.00561**	0.32940	**0.00873**	2.50740	**0.04287**
	(!GATE * !Q)	0.01860	**0.00559**	0.32940	**0.00879**	2.50740	**0.04292**

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	**0.00533**	0.32940	**0.00881**	2.50740	**0.04260**
	(!GATE * !Q)	0.01860	**0.00547**	0.32940	**0.00879**	2.50740	**0.04262**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.01222**	0.32940	**0.01613**	2.50740	**0.05886**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00827**	0.32940	**0.02665**	2.50740	**0.06980**

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	**0.01222**	0.32940	**0.01613**	2.50740	**0.05886**

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	**0.00827**	0.32940	**0.02665**	2.50740	**0.06980**

DLHRQ

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00209	0.00286	0.00222	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	1038.47000	1158.98000	1259.74000

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	**0.12006**	0.32940	0.06480	**0.30364**	2.50740	0.30000	**0.86154**
	GATE->Q (RR)	0.01860	0.00100	**0.10645**	0.32940	0.06480	**0.29062**	2.50740	0.30000	**0.80669**

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	**0.10620**	0.32940	0.06480	**0.26877**	2.50740	0.30000	**0.75108**
	GATE->Q (RF)	0.01860	0.00100	**0.10771**	0.32940	0.06480	**0.26715**	2.50740	0.30000	**0.68677**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04401**	0.32940	0.06480	**0.22479**	2.50740	0.30000	**0.77879**

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	**-0.05379**	1.26300	1.26300	**-0.09714**	2.50740	2.50740	**-0.08855**
	setup	GATE (F)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.13762**	2.50740	2.50740	**0.16234**

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	**-0.02690**	1.26300	1.26300	**0.01889**	2.50740	2.50740	**0.06198**
	setup	GATE (F)	0.01860	0.01860	**0.03668**	1.26300	1.26300	**-0.01349**	2.50740	2.50740	**-0.05313**

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	**-0.00734**	1.26300	1.26300	**-0.10254**	2.50740	2.50740	**-0.16824**
	removal	GATE (F)	0.01860	0.01860	**0.01712**	1.26300	1.26300	**0.12143**	2.50740	2.50740	**0.19185**

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	**0.00250**	0.32940	0.06480	**0.00199**	2.50740	0.30000	**0.00177**
	GATE	0.01860	0.00100	**0.01865**	0.32940	0.06480	**0.01900**	2.50740	0.30000	**0.02218**

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	**0.00648**	0.32940	0.06480	**-0.00199**	2.50740	0.30000	**-0.00177**
	GATE	0.01860	0.00100	**0.01825**	0.32940	0.06480	**0.01936**	2.50740	0.30000	**0.02047**
	RESET_B	0.01860	0.00100	**0.01034**	0.32940	0.06480	**0.01480**	2.50740	0.30000	**0.05427**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.02524**	0.32940	**0.02922**	2.50740	**0.06418**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01983**	0.32940	**0.04020**	2.50740	**0.07547**

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	**0.00550**	0.32940	**0.00871**	2.50740	**0.04285**
	!RESET_B	0.01860	**0.02524**	0.32940	**0.02922**	2.50740	**0.06418**

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	**0.00510**	0.32940	**0.00857**	2.50740	**0.04236**
	!RESET_B	0.01860	**0.01983**	0.32940	**0.04020**	2.50740	**0.07547**

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	**0.00011**	0.32940	**0.00006**	2.50740	**0.00006**

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	**0.00061**	0.32940	**0.00049**	2.50740	**0.00044**

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	**0.00011**	0.32940	**0.00006**	2.50740	**0.00006**
	(!D * !GATE * !Q)	0.01860	**0.00011**	0.32940	**0.00006**	2.50740	**0.00006**

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	**0.00061**	0.32940	**0.00049**	2.50740	**0.00044**
	(!D * !GATE * !Q)	0.01860	**0.00061**	0.32940	**0.00049**	2.50740	**0.00044**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01272**	0.32940	**0.01660**	2.50740	**0.05923**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00850**	0.32940	**0.02659**	2.50740	**0.06971**

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	**0.01674**	0.32940	**0.02074**	2.50740	**0.06665**
	(!D * !RESET_B * !Q)	0.01860	**0.01272**	0.32940	**0.01660**	2.50740	**0.05923**

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	**0.01792**	0.32940	**0.02274**	2.50740	**0.06866**
	(!D * RESET_B * !Q)	0.01860	**0.00850**	0.32940	**0.02659**	2.50740	**0.06971**
	(!D * !RESET_B * !Q)	0.01860	**0.00855**	0.32940	**0.02664**	2.50740	**0.06976**

DLHR

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE	Q	Q_N
sg13g2_dlhr_1	0.00211	0.00301	0.00230	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	1322.77000	1454.41000	1537.31000

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_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.12995**	0.32940	0.06480	**0.31801**	2.50740	0.30000	**0.87628**
	GATE->Q (RR)	0.01860	0.00100	**0.11689**	0.32940	0.06480	**0.30598**	2.50740	0.30000	**0.82397**

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	**0.11058**	0.32940	0.06480	**0.27499**	2.50740	0.30000	**0.75394**
	GATE->Q (RF)	0.01860	0.00100	**0.11204**	0.32940	0.06480	**0.27407**	2.50740	0.30000	**0.68923**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04765**	0.32940	0.06480	**0.23742**	2.50740	0.30000	**0.79287**

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	**0.13548**	0.32940	0.06480	**0.31474**	2.50740	0.30000	**0.88388**
	GATE->Q_N (RR)	0.01860	0.00100	**0.13700**	0.32940	0.06480	**0.31378**	2.50740	0.30000	**0.81918**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07252**	0.32940	0.06480	**0.27085**	2.50740	0.30000	**0.86576**

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	**0.15747**	0.32940	0.06480	**0.31118**	2.50740	0.30000	**0.77846**
	GATE->Q_N (RF)	0.01860	0.00100	**0.14424**	0.32940	0.06480	**0.29917**	2.50740	0.30000	**0.72688**

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	**-0.05868**	1.26300	1.26300	**-0.09714**	2.50740	2.50740	**-0.08855**
	setup	GATE (F)	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.16234**

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	**-0.02934**	1.26300	1.26300	**0.01889**	2.50740	2.50740	**0.06198**
	setup	GATE (F)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**-0.01349**	2.50740	2.50740	**-0.05313**

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	**-0.00245**	1.26300	1.26300	**-0.07016**	2.50740	2.50740	**-0.11511**
	removal	GATE (F)	0.01860	0.01860	**0.01223**	1.26300	1.26300	**0.08905**	2.50740	2.50740	**0.13872**

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	**0.00761**	0.32940	0.06480	**0.00768**	2.50740	0.30000	**0.00812**
	GATE	0.01860	0.00100	**0.01550**	0.32940	0.06480	**0.01595**	2.50740	0.30000	**0.01845**

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	**0.00931**	0.32940	0.06480	**0.00127**	2.50740	0.30000	**0.00224**
	GATE	0.01860	0.00100	**0.01526**	0.32940	0.06480	**0.01591**	2.50740	0.30000	**0.01644**
	RESET_B	0.01860	0.00100	**0.01105**	0.32940	0.06480	**0.01349**	2.50740	0.30000	**0.03680**

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	**0.00935**	0.32940	0.06480	**0.00158**	2.50740	0.30000	**0.00137**
	GATE	0.01860	0.00100	**0.01528**	0.32940	0.06480	**0.01616**	2.50740	0.30000	**0.01634**
	RESET_B	0.01860	0.00100	**0.01108**	0.32940	0.06480	**0.01361**	2.50740	0.30000	**0.03665**

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	**0.00762**	0.32940	0.06480	**0.00741**	2.50740	0.30000	**0.00865**
	GATE	0.01860	0.00100	**0.01550**	0.32940	0.06480	**0.01572**	2.50740	0.30000	**0.01881**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.02471**	0.32940	**0.02871**	2.50740	**0.06370**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01962**	0.32940	**0.03971**	2.50740	**0.07506**

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	**0.00546**	0.32940	**0.00873**	2.50740	**0.04294**
	!RESET_B	0.01860	**0.02471**	0.32940	**0.02871**	2.50740	**0.06370**

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	**0.00479**	0.32940	**0.00830**	2.50740	**0.04219**
	!RESET_B	0.01860	**0.01962**	0.32940	**0.03971**	2.50740	**0.07506**

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	**-0.00008**	0.32940	**-0.00014**	2.50740	**-0.00014**

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	**0.00080**	0.32940	**0.00069**	2.50740	**0.00064**

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	**-0.00008**	0.32940	**-0.00014**	2.50740	**-0.00014**
	(!D * !GATE * !Q)	0.01860	**-0.00008**	0.32940	**-0.00014**	2.50740	**-0.00014**

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	**0.00080**	0.32940	**0.00069**	2.50740	**0.00064**
	(!D * !GATE * !Q)	0.01860	**0.00080**	0.32940	**0.00069**	2.50740	**0.00064**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01221**	0.32940	**0.01613**	2.50740	**0.05889**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00874**	0.32940	**0.02621**	2.50740	**0.06945**

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	**0.01626**	0.32940	**0.02023**	2.50740	**0.06620**
	(!D * !RESET_B * !Q)	0.01860	**0.01221**	0.32940	**0.01613**	2.50740	**0.05889**

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	**0.01841**	0.32940	**0.02315**	2.50740	**0.06914**
	(!D * RESET_B * !Q)	0.01860	**0.00874**	0.32940	**0.02621**	2.50740	**0.06945**
	(!D * !RESET_B * !Q)	0.01860	**0.00879**	0.32940	**0.02626**	2.50740	**0.06951**

DLLRQ

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00207	0.00290	0.00220	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	1029.35000	1158.05000	1266.87000

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_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.11990**	0.32940	0.06480	**0.30320**	2.50740	0.30000	**0.86115**
	GATE_N->Q (FR)	0.01860	0.00100	**0.13199**	0.32940	0.06480	**0.32968**	2.50740	0.30000	**0.95998**
	RESET_B->Q (RR)	0.01860	0.00100	**0.05457**	0.32940	0.06480	**0.23816**	2.50740	0.30000	**0.85108**

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	**0.10573**	0.32940	0.06480	**0.26647**	2.50740	0.30000	**0.74473**
	GATE_N->Q (FF)	0.01860	0.00100	**0.10010**	0.32940	0.06480	**0.27885**	2.50740	0.30000	**0.83699**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04444**	0.32940	0.06480	**0.22455**	2.50740	0.30000	**0.77779**

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	**-0.04646**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.09740**
	setup	GATE_N (R)	0.01860	0.01860	**0.05624**	1.26300	1.26300	**0.07555**	2.50740	2.50740	**0.10626**

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	**-0.05379**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.24793**
	setup	GATE_N (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.22127**	2.50740	2.50740	**0.32467**

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	**-0.01956**	1.26300	1.26300	**-0.04048**	2.50740	2.50740	**-0.02656**
	removal	GATE_N (R)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.05397**	2.50740	2.50740	**0.03837**

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	**0.01003**	0.32940	0.06480	**0.01081**	2.50740	0.30000	**0.01180**
	GATE_N	0.01860	0.00100	**0.02389**	0.32940	0.06480	**0.01063**	2.50740	0.30000	**0.01197**
	RESET_B	0.01860	0.00100	**0.01507**	0.32940	0.06480	**0.01722**	2.50740	0.30000	**0.05621**

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	**0.01933**	0.32940	0.06480	**-0.00018**	2.50740	0.30000	**0.00059**
	GATE_N	0.01860	0.00100	**0.02167**	0.32940	0.06480	**0.00871**	2.50740	0.30000	**0.01322**
	RESET_B	0.01860	0.00100	**0.01060**	0.32940	0.06480	**0.01500**	2.50740	0.30000	**0.05567**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01768**	0.32940	**0.02043**	2.50740	**0.05460**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00708**	0.32940	**0.03055**	2.50740	**0.06585**

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	**0.00546**	0.32940	**0.00872**	2.50740	**0.04291**
	!RESET_B	0.01860	**0.01768**	0.32940	**0.02043**	2.50740	**0.05460**

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	**0.00490**	0.32940	**0.00840**	2.50740	**0.04227**
	!RESET_B	0.01860	**0.00708**	0.32940	**0.03055**	2.50740	**0.06585**

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	**0.00011**	0.32940	**0.00006**	2.50740	**0.00006**

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	**0.00061**	0.32940	**0.00049**	2.50740	**0.00044**

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	**0.00012**	0.32940	**0.00006**	2.50740	**0.00006**
	(!D * GATE_N * !Q)	0.01860	**0.00011**	0.32940	**0.00006**	2.50740	**0.00006**

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	**0.00061**	0.32940	**0.00049**	2.50740	**0.00044**
	(!D * GATE_N * !Q)	0.01860	**0.00061**	0.32940	**0.00049**	2.50740	**0.00044**

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	**0.01139**	0.32940	**0.01531**	2.50740	**0.05801**

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	**0.00847**	0.32940	**0.02645**	2.50740	**0.06969**

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	**0.01986**	0.32940	**0.02364**	2.50740	**0.06586**
	(!D * !RESET_B * !Q)	0.01860	**0.01139**	0.32940	**0.01531**	2.50740	**0.05801**

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	**0.01781**	0.32940	**0.02214**	2.50740	**0.06487**
	(!D * RESET_B * !Q)	0.01860	**0.00847**	0.32940	**0.02645**	2.50740	**0.06969**
	(!D * !RESET_B * !Q)	0.01860	**0.00852**	0.32940	**0.02650**	2.50740	**0.06973**

DLLR

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00212	0.00302	0.00227	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	1313.38000	1477.50000	1560.97000

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	**0.13140**	0.32940	0.06480	**0.31891**	2.50740	0.30000	**0.87754**
	GATE_N->Q (FR)	0.01860	0.00100	**0.14389**	0.32940	0.06480	**0.34725**	2.50740	0.30000	**0.97904**

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	**0.11170**	0.32940	0.06480	**0.27597**	2.50740	0.30000	**0.75518**
	GATE_N->Q (FF)	0.01860	0.00100	**0.10673**	0.32940	0.06480	**0.28995**	2.50740	0.30000	**0.85114**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04751**	0.32940	0.06480	**0.24031**	2.50740	0.30000	**0.75967**

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	**0.13646**	0.32940	0.06480	**0.31557**	2.50740	0.30000	**0.88396**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.13160**	0.32940	0.06480	**0.32920**	2.50740	0.30000	**0.97908**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07293**	0.32940	0.06480	**0.27205**	2.50740	0.30000	**0.87208**

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	**0.15877**	0.32940	0.06480	**0.31243**	2.50740	0.30000	**0.77995**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.17111**	0.32940	0.06480	**0.34058**	2.50740	0.30000	**0.88264**

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	**-0.05379**	1.26300	1.26300	**-0.07016**	2.50740	2.50740	**-0.10330**
	setup	GATE_N (R)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.07825**	2.50740	2.50740	**0.11216**

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	**-0.05624**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.25383**
	setup	GATE_N (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.33352**

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	**-0.01223**	1.26300	1.26300	**-0.00810**	2.50740	2.50740	**0.02952**
	removal	GATE_N (R)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**0.02159**	2.50740	2.50740	**-0.01476**

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	**0.01521**	0.32940	0.06480	**0.08784**	2.50740	0.30000	**0.35337**
	GATE_N	0.01860	0.00100	**0.03381**	0.32940	0.06480	**0.10656**	2.50740	0.30000	**0.37677**

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	**0.01999**	0.32940	0.06480	**0.07176**	2.50740	0.30000	**0.33964**
	GATE_N	0.01860	0.00100	**0.03087**	0.32940	0.06480	**0.10344**	2.50740	0.30000	**0.37220**
	RESET_B	0.01860	0.00100	**0.03545**	0.32940	0.06480	**0.11050**	2.50740	0.30000	**0.41338**

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	**0.02006**	0.32940	0.06480	**0.07243**	2.50740	0.30000	**0.33656**
	GATE_N	0.01860	0.00100	**0.03091**	0.32940	0.06480	**0.10378**	2.50740	0.30000	**0.37451**
	RESET_B	0.01860	0.00100	**0.03549**	0.32940	0.06480	**0.11100**	2.50740	0.30000	**0.41101**

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	**0.01522**	0.32940	0.06480	**0.08730**	2.50740	0.30000	**0.35572**
	GATE_N	0.01860	0.00100	**0.03382**	0.32940	0.06480	**0.10606**	2.50740	0.30000	**0.37187**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.02646**	0.32940	**0.02972**	2.50740	**0.06466**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01946**	0.32940	**0.04344**	2.50740	**0.07870**

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	**0.00547**	0.32940	**0.00872**	2.50740	**0.04295**
	!RESET_B	0.01860	**0.02646**	0.32940	**0.02972**	2.50740	**0.06466**

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	**0.00479**	0.32940	**0.00829**	2.50740	**0.04219**
	!RESET_B	0.01860	**0.01946**	0.32940	**0.04344**	2.50740	**0.07870**

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	**-0.00008**	0.32940	**-0.00014**	2.50740	**-0.00014**

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	**0.00080**	0.32940	**0.00069**	2.50740	**0.00064**

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	**-0.00007**	0.32940	**-0.00014**	2.50740	**-0.00014**
	(!D * GATE_N * !Q)	0.01860	**-0.00008**	0.32940	**-0.00014**	2.50740	**-0.00014**

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	**0.00080**	0.32940	**0.00069**	2.50740	**0.00064**
	(!D * GATE_N * !Q)	0.01860	**0.00080**	0.32940	**0.00069**	2.50740	**0.00064**

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	**0.00525**	0.32940	**0.02662**	2.50740	**0.06916**

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	**0.01266**	0.32940	**0.01708**	2.50740	**0.06024**

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	**0.02014**	0.32940	**0.02388**	2.50740	**0.06607**
	(!D * RESET_B * !Q)	0.01860	**0.00525**	0.32940	**0.02662**	2.50740	**0.06916**
	(!D * !RESET_B * !Q)	0.01860	**0.00529**	0.32940	**0.02665**	2.50740	**0.06921**

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	**0.01836**	0.32940	**0.02274**	2.50740	**0.06538**
	(!D * !RESET_B * !Q)	0.01860	**0.01266**	0.32940	**0.01708**	2.50740	**0.06024**

DLY1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00139	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	435.62900	473.15700	510.68500

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	**0.07577**	0.32940	0.06480	**0.25198**	2.50740	0.30000	**0.73437**

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	**0.08763**	0.32940	0.06480	**0.27109**	2.50740	0.30000	**0.86473**

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	**0.01899**	0.32940	0.06480	**0.02138**	2.50740	0.30000	**0.04470**

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	**0.01804**	0.32940	0.06480	**0.02082**	2.50740	0.30000	**0.04367**

DLY2

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00139	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	515.77600	553.33200	590.88800

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	**0.11415**	0.32940	0.06480	**0.30186**	2.50740	0.30000	**0.81996**

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	**0.12844**	0.32940	0.06480	**0.32935**	2.50740	0.30000	**0.94878**

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	**0.02283**	0.32940	0.06480	**0.02458**	2.50740	0.30000	**0.04615**

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	**0.02207**	0.32940	0.06480	**0.02407**	2.50740	0.30000	**0.04660**

DLY4

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd3_1	0.00135	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	1214.87000	1252.41000	1289.95000

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	**0.25068**	0.32940	0.06480	**0.46463**	2.50740	0.30000	**1.05479**

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	**0.25902**	0.32940	0.06480	**0.49325**	2.50740	0.30000	**1.17978**

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	**0.03389**	0.32940	0.06480	**0.03443**	2.50740	0.30000	**0.05432**

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	**0.03353**	0.32940	0.06480	**0.03401**	2.50740	0.30000	**0.05405**

EINVINx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00765	0.00919	1.20000
sg13g2_einvn_2	0.00383	0.00481	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	1259.67000	1555.34000	1851.00000
sg13g2_einvn_2	633.83500	781.67600	929.51700

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	0.01071	**0.01911**	0.32940	0.26891	**0.39491**	2.50740	1.20971	**2.14484**
	TE_B->Z (RR)	0.01860	0.01071	**0.03679**	0.32940	0.26891	**0.09057**	2.50740	1.20971	**0.17465**
	TE_B->Z (FR)	0.01860	0.01071	**0.02349**	0.32940	0.26891	**0.36713**	2.50740	1.20971	**1.84963**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00598	**0.02015**	0.32940	0.13458	**0.39470**	2.50740	0.60498	**2.13984**
	TE_B->Z (RR)	0.01860	0.00598	**0.03566**	0.32940	0.13458	**0.08593**	2.50740	0.60498	**0.17017**
	TE_B->Z (FR)	0.01860	0.00598	**0.02449**	0.32940	0.13458	**0.36712**	2.50740	0.60498	**1.85006**

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	0.01545	**0.01668**	0.32940	0.27365	**0.32036**	2.50740	1.21445	**1.76394**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00841	**0.01775**	0.32940	0.13701	**0.32031**	2.50740	0.60741	**1.76362**

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	0.01071	**0.01562**	0.32940	0.26891	**0.02042**	2.50740	1.20971	**0.06512**
	TE_B	0.01860	0.01071	**0.03118**	0.32940	0.26891	**0.02179**	2.50740	1.20971	**0.01497**
sg13g2_einvn_2	A	0.01860	0.00598	**0.00782**	0.32940	0.13458	**0.01007**	2.50740	0.60498	**0.03131**
	TE_B	0.01860	0.00598	**0.01540**	0.32940	0.13458	**0.01078**	2.50740	0.60498	**0.00656**

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	0.01545	**0.01450**	0.32940	0.27365	**0.01965**	2.50740	1.21445	**0.05708**
sg13g2_einvn_2	A	0.01860	0.00841	**0.00750**	0.32940	0.13701	**0.00995**	2.50740	0.60741	**0.02895**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**-0.00008**	0.32940	**-0.00006**	2.50740	**-0.00005**
sg13g2_einvn_2	0.01860	**-0.00015**	0.32940	**-0.00014**	2.50740	**-0.00013**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00008**	0.32940	**0.00006**	2.50740	**0.00005**
sg13g2_einvn_2	0.01860	**0.00015**	0.32940	**0.00014**	2.50740	**0.00013**

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	**-0.00241**	0.32940	**0.00057**	2.50740	**0.04650**
sg13g2_einvn_2	0.01860	**-0.00096**	0.32940	**0.00075**	2.50740	**0.02561**

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	**0.01503**	0.32940	**0.02812**	2.50740	**0.07533**
sg13g2_einvn_2	0.01860	**0.00776**	0.32940	**0.01442**	2.50740	**0.03979**

FILLx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_4	7.25760
sg13g2_fill_2	3.62880
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_4	0.00000	0.00000	0.00000
sg13g2_fill_2	0.00000	0.00000	0.00000
sg13g2_fill_8	0.00000	0.00000	0.00000

INx

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_16	0.04728	4.80000
sg13g2_inv_8	0.02304	2.40000
sg13g2_inv_4	0.01153	1.20000
sg13g2_inv_2	0.00576	0.60000
sg13g2_inv_1	0.00289	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	1502.34000	2685.07000	3867.81000
sg13g2_inv_8	751.17500	1342.54000	1933.90000
sg13g2_inv_4	375.58700	671.26900	966.95100
sg13g2_inv_2	187.79400	335.63500	483.47600
sg13g2_inv_1	93.89740	167.81700	241.73700

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	**0.01226**	0.32940	1.03680	**0.27411**	2.50740	4.80000	**1.53308**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01213**	0.32940	0.51840	**0.27364**	2.50740	2.40000	**1.53373**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01243**	0.32940	0.25920	**0.27337**	2.50740	1.20000	**1.53246**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01337**	0.32940	0.12960	**0.27288**	2.50740	0.60000	**1.52864**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.01564**	0.32940	0.06480	**0.27333**	2.50740	0.30000	**1.52855**

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	**0.01155**	0.32940	1.03680	**0.24668**	2.50740	4.80000	**1.38311**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01143**	0.32940	0.51840	**0.24688**	2.50740	2.40000	**1.38461**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01171**	0.32940	0.25920	**0.24663**	2.50740	1.20000	**1.38409**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01251**	0.32940	0.12960	**0.24534**	2.50740	0.60000	**1.37843**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01447**	0.32940	0.06480	**0.24556**	2.50740	0.30000	**1.37871**

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	**0.03479**	0.32940	1.03680	**0.06296**	2.50740	4.80000	**0.32254**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01658**	0.32940	0.51840	**0.03043**	2.50740	2.40000	**0.16355**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00832**	0.32940	0.25920	**0.01522**	2.50740	1.20000	**0.07888**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00417**	0.32940	0.12960	**0.00761**	2.50740	0.60000	**0.03949**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00240**	0.32940	0.06480	**0.00405**	2.50740	0.30000	**0.02028**

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	**0.02888**	0.32940	1.03680	**0.05434**	2.50740	4.80000	**0.27602**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01366**	0.32940	0.51840	**0.02650**	2.50740	2.40000	**0.13162**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00692**	0.32940	0.25920	**0.01314**	2.50740	1.20000	**0.06638**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00353**	0.32940	0.12960	**0.00675**	2.50740	0.60000	**0.03481**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00224**	0.32940	0.06480	**0.00372**	2.50740	0.30000	**0.01798**

ITL

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.01523	0.01559	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	2425.44000	3016.80000	3608.16000

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	0.02036	**0.01868**	0.32940	0.53776	**0.39642**	2.50740	2.41936	**2.14806**
	TE_B->Z (RR)	0.01860	0.02036	**0.04783**	0.32940	0.53776	**0.12289**	2.50740	2.41936	**0.25601**
	TE_B->Z (FR)	0.01860	0.02036	**0.02448**	0.32940	0.53776	**0.36966**	2.50740	2.41936	**1.85557**

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	0.02980	**0.01669**	0.32940	0.54720	**0.32184**	2.50740	2.42880	**1.77046**

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	0.02036	**0.03043**	0.32940	0.53776	**0.04160**	2.50740	2.41936	**0.13249**
	TE_B	0.01860	0.02036	**0.06750**	0.32940	0.53776	**0.04547**	2.50740	2.41936	**0.03602**

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	0.02980	**0.02801**	0.32940	0.54720	**0.03883**	2.50740	2.42880	**0.10891**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**-0.00015**	0.32940	**-0.00011**	2.50740	**-0.00009**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.00015**	0.32940	**0.00011**	2.50740	**0.00009**

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	**-0.00764**	0.32940	**-0.00606**	2.50740	**0.03723**

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	**0.02232**	0.32940	**0.04629**	2.50740	**0.09199**

KEEPSTATE

sg13g2_stdcell_typ_1p50V_25C Cell Library:
Process sg13g2_stdcell_typ_1p50V_25C,
Voltage 1.50, Temp 25.00

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	76.35460	435.86100	795.36700

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_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00199	0.00199	0.00525	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	622.29900	726.31200	861.45500

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	**0.04825**	0.32940	0.06480	**0.24441**	2.50740	0.30000	**0.83582**
	A1->X (RR)	0.01860	0.00100	**0.03640**	0.32940	0.06480	**0.24696**	2.50740	0.30000	**0.84378**
	S->X (-R)	0.01860	0.00100	**0.07790**	0.32940	0.06480	**0.26489**	2.50740	0.30000	**0.83675**

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	**0.04224**	0.32940	0.06480	**0.26119**	2.50740	0.30000	**0.89192**
	A1->X (FF)	0.01860	0.00100	**0.06406**	0.32940	0.06480	**0.26513**	2.50740	0.30000	**0.90115**
	S->X (-F)	0.01860	0.00100	**0.07264**	0.32940	0.06480	**0.25007**	2.50740	0.30000	**0.84212**

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	**0.05359**	0.32940	0.06480	**0.24276**	2.50740	0.30000	**0.83513**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.07790**	0.32940	0.06480	**0.26489**	2.50740	0.30000	**0.83675**

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	**0.07264**	0.32940	0.06480	**0.25007**	2.50740	0.30000	**0.84212**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.09304**	0.32940	0.06480	**0.26139**	2.50740	0.30000	**0.73955**

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	**0.01538**	0.32940	0.06480	**0.01839**	2.50740	0.30000	**0.05303**
	A1	0.01860	0.00100	**0.01446**	0.32940	0.06480	**0.02272**	2.50740	0.30000	**0.05762**
	S	0.01860	0.00100	**0.01460**	0.32940	0.06480	**0.01733**	2.50740	0.30000	**0.05198**

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	**0.01488**	0.32940	0.06480	**0.02381**	2.50740	0.30000	**0.05966**
	A1	0.01860	0.00100	**0.01555**	0.32940	0.06480	**0.01876**	2.50740	0.30000	**0.05491**
	S	0.01860	0.00100	**0.01402**	0.32940	0.06480	**0.01652**	2.50740	0.30000	**0.05263**

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	**0.01469**	0.32940	0.06480	**0.01482**	2.50740	0.30000	**0.01651**
	S	(!A0 * A1)	0.01860	0.00100	**0.01460**	0.32940	0.06480	**0.01733**	2.50740	0.30000	**0.05198**

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	**0.01462**	0.32940	0.06480	**0.01494**	2.50740	0.30000	**0.01698**
	S	(!A0 * A1)	0.01860	0.00100	**0.01402**	0.32940	0.06480	**0.01652**	2.50740	0.30000	**0.05263**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00635**	0.32940	**0.00926**	2.50740	**0.04326**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00640**	0.32940	**0.00968**	2.50740	**0.04336**

MUX4

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00280	0.00280	0.00280	0.00281	0.00804	0.00492	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	863.95600	1307.21000	1573.89000

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	**0.08822**	0.32940	0.06480	**0.29951**	2.50740	0.30000	**0.96991**
	A1->X (RR)	0.01860	0.00100	**0.08627**	0.32940	0.06480	**0.29839**	2.50740	0.30000	**0.96780**
	A2->X (RR)	0.01860	0.00100	**0.09278**	0.32940	0.06480	**0.30543**	2.50740	0.30000	**0.98351**
	A3->X (RR)	0.01860	0.00100	**0.08934**	0.32940	0.06480	**0.30417**	2.50740	0.30000	**0.98168**
	S0->X (-R)	0.01860	0.00100	**0.07430**	0.32940	0.06480	**0.30039**	2.50740	0.30000	**0.97217**
	S1->X (-R)	0.01860	0.00100	**-0.00738**	0.32940	0.06480	**0.24189**	2.50740	0.30000	**0.84410**

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	**0.10461**	0.32940	0.06480	**0.30100**	2.50740	0.30000	**0.89222**
	A1->X (FF)	0.01860	0.00100	**0.10558**	0.32940	0.06480	**0.30100**	2.50740	0.30000	**0.89427**
	A2->X (FF)	0.01860	0.00100	**0.11156**	0.32940	0.06480	**0.31010**	2.50740	0.30000	**0.90994**
	A3->X (FF)	0.01860	0.00100	**0.11207**	0.32940	0.06480	**0.30961**	2.50740	0.30000	**0.90965**
	S0->X (-F)	0.01860	0.00100	**0.09301**	0.32940	0.06480	**0.30986**	2.50740	0.30000	**0.94234**
	S1->X (-F)	0.01860	0.00100	**0.02885**	0.32940	0.06480	**0.24467**	2.50740	0.30000	**0.84226**

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	**0.07430**	0.32940	0.06480	**0.30039**	2.50740	0.30000	**0.97217**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.07057**	0.32940	0.06480	**0.29069**	2.50740	0.30000	**0.94972**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.11195**	0.32940	0.06480	**0.31954**	2.50740	0.30000	**0.92970**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.10898**	0.32940	0.06480	**0.31452**	2.50740	0.30000	**0.92203**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**-0.00919**	0.32940	0.06480	**0.24088**	2.50740	0.30000	**0.84377**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.00738**	0.32940	0.06480	**0.24189**	2.50740	0.30000	**0.84410**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**-0.00915**	0.32940	0.06480	**0.25443**	2.50740	0.30000	**0.83369**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.00747**	0.32940	0.06480	**0.25461**	2.50740	0.30000	**0.83386**

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	**0.09301**	0.32940	0.06480	**0.30986**	2.50740	0.30000	**0.94234**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.08481**	0.32940	0.06480	**0.29689**	2.50740	0.30000	**0.91735**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.12292**	0.32940	0.06480	**0.31668**	2.50740	0.30000	**0.83935**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.11662**	0.32940	0.06480	**0.30835**	2.50740	0.30000	**0.82879**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.02885**	0.32940	0.06480	**0.24467**	2.50740	0.30000	**0.84226**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.01017**	0.32940	0.06480	**0.24226**	2.50740	0.30000	**0.84146**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**-0.00294**	0.32940	0.06480	**0.24921**	2.50740	0.30000	**0.74723**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.01016**	0.32940	0.06480	**0.24779**	2.50740	0.30000	**0.74703**

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	**0.01894**	0.32940	0.06480	**0.02011**	2.50740	0.30000	**0.05102**
	A1	0.01860	0.00100	**0.02361**	0.32940	0.06480	**0.02467**	2.50740	0.30000	**0.05530**
	A2	0.01860	0.00100	**0.02631**	0.32940	0.06480	**0.02734**	2.50740	0.30000	**0.05951**
	A3	0.01860	0.00100	**0.02401**	0.32940	0.06480	**0.02487**	2.50740	0.30000	**0.05571**
	S0	0.01860	0.00100	**0.01172**	0.32940	0.06480	**0.01502**	2.50740	0.30000	**0.04841**
	S1	0.01860	0.00100	**0.01624**	0.32940	0.06480	**0.04993**	2.50740	0.30000	**0.07115**

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	**0.02641**	0.32940	0.06480	**0.02717**	2.50740	0.30000	**0.05949**
	A1	0.01860	0.00100	**0.02495**	0.32940	0.06480	**0.02565**	2.50740	0.30000	**0.05815**
	A2	0.01860	0.00100	**0.02095**	0.32940	0.06480	**0.02144**	2.50740	0.30000	**0.05386**
	A3	0.01860	0.00100	**0.02094**	0.32940	0.06480	**0.02143**	2.50740	0.30000	**0.05410**
	S0	0.01860	0.00100	**0.02420**	0.32940	0.06480	**0.02614**	2.50740	0.30000	**-0.00206**
	S1	0.01860	0.00100	**0.01543**	0.32940	0.06480	**0.04663**	2.50740	0.30000	**0.07756**

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	**0.02641**	0.32940	0.06480	**0.01669**	2.50740	0.30000	**0.00000**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02633**	0.32940	0.06480	**0.01670**	2.50740	0.30000	**0.00000**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01164**	0.32940	0.06480	**0.01516**	2.50740	0.30000	**0.04816**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01172**	0.32940	0.06480	**0.01502**	2.50740	0.30000	**0.04841**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01394**	0.32940	0.06480	**0.05518**	2.50740	0.30000	**0.07673**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01624**	0.32940	0.06480	**0.04993**	2.50740	0.30000	**0.07115**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01362**	0.32940	0.06480	**0.04433**	2.50740	0.30000	**0.07263**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01572**	0.32940	0.06480	**0.04005**	2.50740	0.30000	**0.06733**

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	**0.02420**	0.32940	0.06480	**0.02614**	2.50740	0.30000	**0.00000**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02374**	0.32940	0.06480	**0.02708**	2.50740	0.30000	**0.00000**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01457**	0.32940	0.06480	**0.01136**	2.50740	0.30000	**0.04398**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01448**	0.32940	0.06480	**0.01151**	2.50740	0.30000	**0.04427**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.02133**	0.32940	0.06480	**0.03878**	2.50740	0.30000	**0.06052**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01646**	0.32940	0.06480	**0.05564**	2.50740	0.30000	**0.07872**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01758**	0.32940	0.06480	**0.03148**	2.50740	0.30000	**0.06041**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01543**	0.32940	0.06480	**0.04663**	2.50740	0.30000	**0.07756**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01259**	0.32940	**0.01937**	2.50740	**0.09335**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01010**	0.32940	**0.02350**	2.50740	**0.09738**

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	**0.01166**	0.32940	**0.01882**	2.50740	**0.09325**
	(A0 * A1 * !S1)	0.01860	**0.01259**	0.32940	**0.01937**	2.50740	**0.09335**
	(!A2 * !A3 * S1)	0.01860	**0.01181**	0.32940	**0.01912**	2.50740	**0.09359**
	(!A0 * !A1 * !S1)	0.01860	**0.01323**	0.32940	**0.02016**	2.50740	**0.09419**

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	**0.01037**	0.32940	**0.02405**	2.50740	**0.09796**
	(A0 * A1 * !S1)	0.01860	**0.01125**	0.32940	**0.02669**	2.50740	**0.10020**
	(!A2 * !A3 * S1)	0.01860	**0.01010**	0.32940	**0.02350**	2.50740	**0.09738**
	(!A0 * !A1 * !S1)	0.01860	**0.01095**	0.32940	**0.01854**	2.50740	**0.09189**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00656**	0.32940	**0.01082**	2.50740	**0.05223**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00647**	0.32940	**0.01120**	2.50740	**0.05227**

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	**0.00656**	0.32940	**0.01082**	2.50740	**0.05223**
	(A0 * A2 * !S0)	0.01860	**0.00655**	0.32940	**0.01080**	2.50740	**0.05222**
	(!A1 * !A3 * S0)	0.01860	**0.00650**	0.32940	**0.01097**	2.50740	**0.05243**
	(!A0 * !A2 * !S0)	0.01860	**0.00649**	0.32940	**0.01096**	2.50740	**0.05242**

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	**0.00647**	0.32940	**0.01120**	2.50740	**0.05227**
	(A0 * A2 * !S0)	0.01860	**0.00647**	0.32940	**0.01118**	2.50740	**0.05226**
	(!A1 * !A3 * S0)	0.01860	**0.00666**	0.32940	**0.01122**	2.50740	**0.05220**
	(!A0 * !A2 * !S0)	0.01860	**0.00665**	0.32940	**0.01122**	2.50740	**0.05219**

NAND2B1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00234	0.00313	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	161.32500	357.09600	551.88100

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	**0.03581**	0.32940	0.06480	**0.22066**	2.50740	0.30000	**0.82500**
	B->Y (FR)	0.01860	0.00100	**0.01963**	0.32940	0.06480	**0.27785**	2.50740	0.30000	**1.53259**

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	**0.04317**	0.32940	0.06480	**0.27734**	2.50740	0.30000	**1.05767**
	B->Y (RF)	0.01860	0.00100	**0.02577**	0.32940	0.06480	**0.30053**	2.50740	0.30000	**1.58868**

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	**0.00276**	0.32940	0.06480	**0.00286**	2.50740	0.30000	**0.00238**
	B	0.01860	0.00100	**0.00296**	0.32940	0.06480	**0.00410**	2.50740	0.30000	**0.01928**

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	**0.00647**	0.32940	0.06480	**0.00665**	2.50740	0.30000	**0.00599**
	B	0.01860	0.00100	**0.00641**	0.32940	0.06480	**0.00694**	2.50740	0.30000	**0.01810**

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	**0.00643**	0.32940	**0.00986**	2.50740	**0.04430**

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	**0.00323**	0.32940	**0.00672**	2.50740	**0.04066**

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	**0.00643**	0.32940	**0.00986**	2.50740	**0.04430**

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	**0.00323**	0.32940	**0.00672**	2.50740	**0.04066**

NAND2

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00285	0.00297	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	92.91990	269.72600	483.47500

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	**0.01726**	0.32940	0.06480	**0.27444**	2.50740	0.30000	**1.52321**
	B->Y (FR)	0.01860	0.00100	**0.01988**	0.32940	0.06480	**0.27724**	2.50740	0.30000	**1.53006**

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	**0.02085**	0.32940	0.06480	**0.31839**	2.50740	0.30000	**1.75453**
	B->Y (RF)	0.01860	0.00100	**0.02362**	0.32940	0.06480	**0.29878**	2.50740	0.30000	**1.59275**

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	**0.00264**	0.32940	0.06480	**0.00409**	2.50740	0.30000	**0.01730**
	B	0.01860	0.00100	**0.00278**	0.32940	0.06480	**0.00393**	2.50740	0.30000	**0.01852**

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	**0.00332**	0.32940	0.06480	**0.00433**	2.50740	0.30000	**0.01639**
	B	0.01860	0.00100	**0.00609**	0.32940	0.06480	**0.00674**	2.50740	0.30000	**0.01894**

NAND3B1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00225	0.00298	0.00301	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	164.47300	390.94500	793.61500

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	**0.03757**	0.32940	0.06480	**0.22048**	2.50740	0.30000	**0.82167**
	B->Y (FR)	0.01860	0.00100	**0.02164**	0.32940	0.06480	**0.27965**	2.50740	0.30000	**1.52867**
	C->Y (FR)	0.01860	0.00100	**0.02345**	0.32940	0.06480	**0.28205**	2.50740	0.30000	**1.53248**

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	**0.05134**	0.32940	0.06480	**0.35687**	2.50740	0.30000	**1.40171**
	B->Y (RF)	0.01860	0.00100	**0.03762**	0.32940	0.06480	**0.38410**	2.50740	0.30000	**1.98125**
	C->Y (RF)	0.01860	0.00100	**0.04143**	0.32940	0.06480	**0.36721**	2.50740	0.30000	**1.79451**

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	**0.00297**	0.32940	0.06480	**0.00295**	2.50740	0.30000	**0.00185**
	B	0.01860	0.00100	**0.00345**	0.32940	0.06480	**0.00432**	2.50740	0.30000	**0.01689**
	C	0.01860	0.00100	**0.00387**	0.32940	0.06480	**0.00445**	2.50740	0.30000	**0.01771**

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	**0.00827**	0.32940	0.06480	**0.00835**	2.50740	0.30000	**0.00700**
	B	0.01860	0.00100	**0.00817**	0.32940	0.06480	**0.00859**	2.50740	0.30000	**0.01872**
	C	0.01860	0.00100	**0.01099**	0.32940	0.06480	**0.01130**	2.50740	0.30000	**0.02079**

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	**0.00633**	0.32940	**0.00976**	2.50740	**0.04422**

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	**0.00329**	0.32940	**0.00676**	2.50740	**0.04073**

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	**0.00633**	0.32940	**0.00976**	2.50740	**0.04422**

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	**0.00329**	0.32940	**0.00676**	2.50740	**0.04073**

NOR2

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00300	0.00284	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	187.79400	254.43800	308.45400

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	**0.02967**	0.32940	0.06480	**0.37082**	2.50740	0.30000	**1.90063**
	B->Y (FR)	0.01860	0.00100	**0.02526**	0.32940	0.06480	**0.39643**	2.50740	0.30000	**2.14358**

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	**0.01830**	0.32940	0.06480	**0.25018**	2.50740	0.30000	**1.38159**
	B->Y (RF)	0.01860	0.00100	**0.01605**	0.32940	0.06480	**0.24674**	2.50740	0.30000	**1.37442**

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	**0.00683**	0.32940	0.06480	**0.00740**	2.50740	0.30000	**0.01953**
	B	0.01860	0.00100	**0.00331**	0.32940	0.06480	**0.00449**	2.50740	0.30000	**0.01683**

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	**0.00280**	0.32940	0.06480	**0.00382**	2.50740	0.30000	**0.01605**
	B	0.01860	0.00100	**0.00264**	0.32940	0.06480	**0.00383**	2.50740	0.30000	**0.01541**

NOR3

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00299	0.00292	0.00281	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	222.86100	315.30700	439.09300

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	**0.05199**	0.32940	0.06480	**0.49554**	2.50740	0.30000	**2.32512**
	B->Y (FR)	0.01860	0.00100	**0.04847**	0.32940	0.06480	**0.51606**	2.50740	0.30000	**2.53517**
	C->Y (FR)	0.01860	0.00100	**0.03708**	0.32940	0.06480	**0.52546**	2.50740	0.30000	**2.69448**

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	**0.02034**	0.32940	0.06480	**0.25500**	2.50740	0.30000	**1.38524**
	B->Y (RF)	0.01860	0.00100	**0.02012**	0.32940	0.06480	**0.25242**	2.50740	0.30000	**1.38257**
	C->Y (RF)	0.01860	0.00100	**0.01782**	0.32940	0.06480	**0.24917**	2.50740	0.30000	**1.37624**

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	**0.01152**	0.32940	0.06480	**0.01164**	2.50740	0.30000	**0.02220**
	B	0.01860	0.00100	**0.00846**	0.32940	0.06480	**0.00873**	2.50740	0.30000	**0.01779**
	C	0.01860	0.00100	**0.00496**	0.32940	0.06480	**0.00583**	2.50740	0.30000	**0.01608**

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	**0.00366**	0.32940	0.06480	**0.00424**	2.50740	0.30000	**0.01488**
	B	0.01860	0.00100	**0.00338**	0.32940	0.06480	**0.00399**	2.50740	0.30000	**0.01382**
	C	0.01860	0.00100	**0.00291**	0.32940	0.06480	**0.00402**	2.50740	0.30000	**0.01334**

NOR4

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00297	0.00289	0.00248	0.00253	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	225.53700	385.88800	574.94700

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	**0.07966**	0.32940	0.06480	**0.64088**	2.50740	0.30000	**2.82396**
	B->Y (FR)	0.01860	0.00100	**0.07638**	0.32940	0.06480	**0.65192**	2.50740	0.30000	**2.98141**
	C->Y (FR)	0.01860	0.00100	**0.06643**	0.32940	0.06480	**0.66066**	2.50740	0.30000	**3.14485**
	D->Y (FR)	0.01860	0.00100	**0.04709**	0.32940	0.06480	**0.65775**	2.50740	0.30000	**3.25257**

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	**0.02109**	0.32940	0.06480	**0.25860**	2.50740	0.30000	**1.39039**
	B->Y (RF)	0.01860	0.00100	**0.02175**	0.32940	0.06480	**0.25672**	2.50740	0.30000	**1.38790**
	C->Y (RF)	0.01860	0.00100	**0.02115**	0.32940	0.06480	**0.25389**	2.50740	0.30000	**1.38127**
	D->Y (RF)	0.01860	0.00100	**0.01867**	0.32940	0.06480	**0.24982**	2.50740	0.30000	**1.37481**

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	**0.01429**	0.32940	0.06480	**0.01421**	2.50740	0.30000	**0.02349**
	B	0.01860	0.00100	**0.01210**	0.32940	0.06480	**0.01204**	2.50740	0.30000	**0.02042**
	C	0.01860	0.00100	**0.00981**	0.32940	0.06480	**0.00992**	2.50740	0.30000	**0.01766**
	D	0.01860	0.00100	**0.00649**	0.32940	0.06480	**0.00723**	2.50740	0.30000	**0.01620**

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	**0.00455**	0.32940	0.06480	**0.00508**	2.50740	0.30000	**0.01481**
	B	0.01860	0.00100	**0.00444**	0.32940	0.06480	**0.00496**	2.50740	0.30000	**0.01395**
	C	0.01860	0.00100	**0.00226**	0.32940	0.06480	**0.00287**	2.50740	0.30000	**0.01124**
	D	0.01860	0.00100	**0.00118**	0.32940	0.06480	**0.00218**	2.50740	0.30000	**0.01022**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00007**	0.32940	**-0.00018**	2.50740	**-0.00024**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00118**	0.32940	**0.00119**	2.50740	**0.00117**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00007**	0.32940	**-0.00018**	2.50740	**-0.00024**

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	**0.00118**	0.32940	**0.00119**	2.50740	**0.00117**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00000**	0.32940	**-0.00023**	2.50740	**-0.00027**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00035**	0.32940	**0.00037**	2.50740	**0.00038**

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	**-0.00000**	0.32940	**-0.00023**	2.50740	**-0.00027**

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	**0.00035**	0.32940	**0.00037**	2.50740	**0.00038**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00152**	0.32940	**0.00154**	2.50740	**0.00154**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00040**	0.32940	**-0.00040**	2.50740	**-0.00040**

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	**0.00152**	0.32940	**0.00154**	2.50740	**0.00154**

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	**-0.00040**	0.32940	**-0.00040**	2.50740	**-0.00040**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00187**	0.32940	**0.00188**	2.50740	**0.00188**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00059**	0.32940	**-0.00060**	2.50740	**-0.00057**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !C) + (!A * B * !C)	0.01860	**0.00187**	0.32940	**0.00188**	2.50740	**0.00188**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**-0.00059**	0.32940	**-0.00060**	2.50740	**-0.00057**

NP_ANT

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00108

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	6.74997	6.74997	6.74997

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	**-0.00049**	0.32940	**-0.00050**	2.50740	**-0.00051**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00050**	0.32940	**0.00051**	2.50740	**0.00051**

OR2

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00229	0.00224	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	255.62000	314.06200	378.54500

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	**0.03855**	0.32940	0.06480	**0.22988**	2.50740	0.30000	**0.82325**
	B->X (RR)	0.01860	0.00100	**0.03567**	0.32940	0.06480	**0.21814**	2.50740	0.30000	**0.77059**

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	**0.06122**	0.32940	0.06480	**0.23094**	2.50740	0.30000	**0.79378**
	B->X (FF)	0.01860	0.00100	**0.05688**	0.32940	0.06480	**0.24244**	2.50740	0.30000	**0.84827**

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	**0.00893**	0.32940	0.06480	**0.01155**	2.50740	0.30000	**0.04124**
	B	0.01860	0.00100	**0.00897**	0.32940	0.06480	**0.01152**	2.50740	0.30000	**0.04137**

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	**0.01202**	0.32940	0.06480	**0.01401**	2.50740	0.30000	**0.04352**
	B	0.01860	0.00100	**0.00940**	0.32940	0.06480	**0.01216**	2.50740	0.30000	**0.04139**

OR3

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00253	0.00248	0.00240	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	266.46700	354.76500	474.06100

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	**0.04417**	0.32940	0.06480	**0.24856**	2.50740	0.30000	**0.88175**
	B->X (RR)	0.01860	0.00100	**0.04232**	0.32940	0.06480	**0.23948**	2.50740	0.30000	**0.82830**
	C->X (RR)	0.01860	0.00100	**0.03844**	0.32940	0.06480	**0.22661**	2.50740	0.30000	**0.78144**

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	**0.08729**	0.32940	0.06480	**0.25607**	2.50740	0.30000	**0.80396**
	B->X (FF)	0.01860	0.00100	**0.08337**	0.32940	0.06480	**0.26610**	2.50740	0.30000	**0.87399**
	C->X (FF)	0.01860	0.00100	**0.07271**	0.32940	0.06480	**0.26946**	2.50740	0.30000	**0.90087**

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	**0.00976**	0.32940	0.06480	**0.01196**	2.50740	0.30000	**0.04275**
	B	0.01860	0.00100	**0.00939**	0.32940	0.06480	**0.01176**	2.50740	0.30000	**0.04011**
	C	0.01860	0.00100	**0.00915**	0.32940	0.06480	**0.01162**	2.50740	0.30000	**0.04087**

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	**0.01715**	0.32940	0.06480	**0.01810**	2.50740	0.30000	**0.04799**
	B	0.01860	0.00100	**0.01443**	0.32940	0.06480	**0.01563**	2.50740	0.30000	**0.04476**
	C	0.01860	0.00100	**0.01138**	0.32940	0.06480	**0.01384**	2.50740	0.30000	**0.04306**

OR4

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00255	0.00251	0.00206	0.00214	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	269.20100	388.87100	551.50200

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	**0.04593**	0.32940	0.06480	**0.25747**	2.50740	0.30000	**0.89027**
	B->X (RR)	0.01860	0.00100	**0.04559**	0.32940	0.06480	**0.25015**	2.50740	0.30000	**0.84532**
	C->X (RR)	0.01860	0.00100	**0.04332**	0.32940	0.06480	**0.24087**	2.50740	0.30000	**0.79926**
	D->X (RR)	0.01860	0.00100	**0.03920**	0.32940	0.06480	**0.22786**	2.50740	0.30000	**0.75612**

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	**0.12096**	0.32940	0.06480	**0.29584**	2.50740	0.30000	**0.85666**
	B->X (FF)	0.01860	0.00100	**0.11718**	0.32940	0.06480	**0.30199**	2.50740	0.30000	**0.92635**
	C->X (FF)	0.01860	0.00100	**0.10722**	0.32940	0.06480	**0.30508**	2.50740	0.30000	**0.97018**
	D->X (FF)	0.01860	0.00100	**0.08947**	0.32940	0.06480	**0.30207**	2.50740	0.30000	**0.98519**

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	**0.01107**	0.32940	0.06480	**0.01272**	2.50740	0.30000	**0.04190**
	B	0.01860	0.00100	**0.01076**	0.32940	0.06480	**0.01251**	2.50740	0.30000	**0.03915**
	C	0.01860	0.00100	**0.00847**	0.32940	0.06480	**0.01034**	2.50740	0.30000	**0.03585**
	D	0.01860	0.00100	**0.00774**	0.32940	0.06480	**0.00989**	2.50740	0.30000	**0.03631**

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	**0.01697**	0.32940	0.06480	**0.01660**	2.50740	0.30000	**0.04560**
	B	0.01860	0.00100	**0.01718**	0.32940	0.06480	**0.01694**	2.50740	0.30000	**0.04458**
	C	0.01860	0.00100	**0.01556**	0.32940	0.06480	**0.01589**	2.50740	0.30000	**0.04183**
	D	0.01860	0.00100	**0.01174**	0.32940	0.06480	**0.01319**	2.50740	0.30000	**0.03895**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00053**	0.32940	**-0.00054**	2.50740	**-0.00055**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00382**	0.32940	**0.00388**	2.50740	**0.00385**

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	**-0.00053**	0.32940	**-0.00054**	2.50740	**-0.00055**

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	**0.00382**	0.32940	**0.00388**	2.50740	**0.00385**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00056**	0.32940	**-0.00057**	2.50740	**-0.00057**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00092**	0.32940	**0.00096**	2.50740	**0.00095**

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	**-0.00056**	0.32940	**-0.00057**	2.50740	**-0.00057**

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	**0.00092**	0.32940	**0.00096**	2.50740	**0.00095**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00115**	0.32940	**0.00117**	2.50740	**0.00118**

Passive power(pJ) for C falling :

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

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	**0.00115**	0.32940	**0.00117**	2.50740	**0.00118**

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	**-0.00016**	0.32940	**-0.00016**	2.50740	**-0.00016**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00149**	0.32940	**0.00151**	2.50740	**0.00150**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00058**	0.32940	**0.00059**	2.50740	**0.00063**

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	**0.00149**	0.32940	**0.00151**	2.50740	**0.00150**

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	**0.00058**	0.32940	**0.00059**	2.50740	**0.00063**

SDFRRS

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00175	0.00196	0.00339	0.00166	0.00508	0.00308	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	1921.44000	2292.71000	2444.94000

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	**0.18716**	0.32940	0.06480	**0.37289**	2.50740	0.30000	**0.94110**
	SET_B->Q (FR)	0.01860	0.00100	**0.08060**	0.32940	0.06480	**0.28924**	2.50740	0.30000	**0.92171**

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	**0.15616**	0.32940	0.06480	**0.32238**	2.50740	0.30000	**0.81678**
	RESET_B->Q (FF)	0.01860	0.00100	**0.13159**	0.32940	0.06480	**0.31517**	2.50740	0.30000	**0.85867**

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	**0.18716**	0.32940	0.06480	**0.37289**	2.50740	0.30000	**0.94110**

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	**0.15616**	0.32940	0.06480	**0.32238**	2.50740	0.30000	**0.81678**

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	**0.12866**	0.32940	0.06480	**0.33013**	2.50740	0.30000	**0.91785**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10340**	0.32940	0.06480	**0.32771**	2.50740	0.30000	**0.96811**

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	**0.15531**	0.32940	0.06480	**0.34594**	2.50740	0.30000	**0.82745**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.05405**	0.32940	0.06480	**0.25968**	2.50740	0.30000	**0.81700**

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	**0.12866**	0.32940	0.06480	**0.33013**	2.50740	0.30000	**0.91785**

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	**0.15531**	0.32940	0.06480	**0.34594**	2.50740	0.30000	**0.82745**

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	**-0.05624**	1.26300	1.26300	**-0.18349**	2.50740	2.50740	**-0.25088**
	setup	CLK (R)	0.01860	0.01860	**0.08314**	1.26300	1.26300	**0.19968**	2.50740	2.50740	**0.27154**

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	**-0.06602**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.22432**
	setup	CLK (R)	0.01860	0.01860	**0.11003**	1.26300	1.26300	**0.23206**	2.50740	2.50740	**0.33648**

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	**-0.07336**	1.26300	1.26300	**-0.21317**	2.50740	2.50740	**-0.29811**
	setup	CLK (R)	0.01860	0.01860	**0.10025**	1.26300	1.26300	**0.22936**	2.50740	2.50740	**0.31582**

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	**-0.08803**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.21841**
	setup	CLK (R)	0.01860	0.01860	**0.13448**	1.26300	1.26300	**0.22936**	2.50740	2.50740	**0.32762**

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	**-0.05868**	1.26300	1.26300	**-0.20508**	2.50740	2.50740	**-0.29220**
	setup	CLK (R)	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.23476**	2.50740	2.50740	**0.33057**

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	**-0.06602**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.14167**
	setup	CLK (R)	0.01860	0.01860	**0.11248**	1.26300	1.26300	**0.18349**	2.50740	2.50740	**0.25973**

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	**0.05379**	1.26300	1.26300	**0.09444**	2.50740	2.50740	**0.12101**
	removal	CLK (R)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.07016**	2.50740	2.50740	**-0.08559**

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	**0.02201**	1.26300	1.26300	**0.23476**	2.50740	2.50740	**0.56374**
	removal	CLK (R)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**0.04857**	2.50740	2.50740	**0.04132**
	hold	RESET_B (R)	0.01860	0.01860	**-0.04890**	1.26300	1.26300	**-0.14571**	2.50740	2.50740	**-0.20956**
	setup	RESET_B (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.18079**	2.50740	2.50740	**0.28040**

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	**0.01585**	0.32940	0.06480	**0.01613**	2.50740	0.30000	**0.01724**
	SET_B	0.01860	0.00100	**0.04639**	0.32940	0.06480	**0.12437**	2.50740	0.30000	**0.45204**

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	**0.01566**	0.32940	0.06480	**0.01592**	2.50740	0.30000	**0.01790**
	RESET_B	0.01860	0.00100	**0.05340**	0.32940	0.06480	**0.12733**	2.50740	0.30000	**0.42159**

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	**0.01585**	0.32940	0.06480	**0.01613**	2.50740	0.30000	**0.01724**

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	**0.01566**	0.32940	0.06480	**0.01592**	2.50740	0.30000	**0.01790**

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	**0.01566**	0.32940	0.06480	**0.01607**	2.50740	0.30000	**0.01778**
	RESET_B	0.01860	0.00100	**0.05340**	0.32940	0.06480	**0.12786**	2.50740	0.30000	**0.42628**

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	**0.01585**	0.32940	0.06480	**0.01589**	2.50740	0.30000	**0.01773**
	SET_B	0.01860	0.00100	**0.04634**	0.32940	0.06480	**0.12378**	2.50740	0.30000	**0.45588**

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	**0.01566**	0.32940	0.06480	**0.01607**	2.50740	0.30000	**0.01778**

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	**0.01585**	0.32940	0.06480	**0.01589**	2.50740	0.30000	**0.01773**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00892**	0.32940	**0.01010**	2.50740	**0.02902**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00697**	0.32940	**0.00831**	2.50740	**0.02709**

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	**0.01609**	0.32940	**0.01755**	2.50740	**0.03876**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00892**	0.32940	**0.01010**	2.50740	**0.02902**

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	**0.01758**	0.32940	**0.01908**	2.50740	**0.04049**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00697**	0.32940	**0.00831**	2.50740	**0.02709**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01153**	0.32940	**0.01227**	2.50740	**0.03052**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01274**	0.32940	**0.01367**	2.50740	**0.03224**

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	**0.01866**	0.32940	**0.01958**	2.50740	**0.03992**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.01153**	0.32940	**0.01227**	2.50740	**0.03052**

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	**0.02459**	0.32940	**0.02511**	2.50740	**0.04613**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.01274**	0.32940	**0.01367**	2.50740	**0.03224**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02156**	0.32940	**0.02413**	2.50740	**0.05045**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02176**	0.32940	**0.02448**	2.50740	**0.05012**

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	**0.02156**	0.32940	**0.02413**	2.50740	**0.05045**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02851**	0.32940	**0.02995**	2.50740	**0.05610**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01912**	0.32940	**0.02350**	2.50740	**0.07120**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.01147**	0.32940	**0.01546**	2.50740	**0.06085**

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	**0.02176**	0.32940	**0.02448**	2.50740	**0.05012**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02567**	0.32940	**0.03823**	2.50740	**0.06388**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00597**	0.32940	**0.04283**	2.50740	**0.08932**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.01175**	0.32940	**0.01553**	2.50740	**0.05986**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01717**	0.32940	**0.02175**	2.50740	**0.07211**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02153**	0.32940	**0.02674**	2.50740	**0.07775**

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	**0.01644**	0.32940	**0.02085**	2.50740	**0.07122**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02331**	0.32940	**0.02780**	2.50740	**0.07800**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01652**	0.32940	**0.02102**	2.50740	**0.07149**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01644**	0.32940	**0.02085**	2.50740	**0.07122**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01717**	0.32940	**0.02175**	2.50740	**0.07211**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01651**	0.32940	**0.02102**	2.50740	**0.07149**

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	**0.01465**	0.32940	**0.01945**	2.50740	**0.06943**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.02715**	0.32940	**0.03212**	2.50740	**0.08371**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02153**	0.32940	**0.02674**	2.50740	**0.07775**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.03022**	0.32940	**0.03537**	2.50740	**0.08637**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01501**	0.32940	**0.01993**	2.50740	**0.06983**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01465**	0.32940	**0.01945**	2.50740	**0.06943**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01499**	0.32940	**0.01991**	2.50740	**0.06982**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01501**	0.32940	**0.01992**	2.50740	**0.06983**

TIE0

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	266.16600	266.16600	266.16600

TIE1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	238.37800	238.37800	238.37800

XNOR2_1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00563	0.00479	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	276.70500	577.45300	766.90400

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	**0.04836**	0.32940	0.06480	**0.23155**	2.50740	0.30000	**0.83258**
	A->Y (FR)	0.01860	0.00100	**0.03815**	0.32940	0.06480	**0.38079**	2.50740	0.30000	**1.90654**
	B->Y (RR)	0.01860	0.00100	**0.04467**	0.32940	0.06480	**0.23436**	2.50740	0.30000	**0.85708**
	B->Y (FR)	0.01860	0.00100	**0.03358**	0.32940	0.06480	**0.40550**	2.50740	0.30000	**2.14996**

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	**0.04917**	0.32940	0.06480	**0.29446**	2.50740	0.30000	**1.09991**
	A->Y (RF)	0.01860	0.00100	**0.03240**	0.32940	0.06480	**0.31009**	2.50740	0.30000	**1.60107**
	B->Y (FF)	0.01860	0.00100	**0.04920**	0.32940	0.06480	**0.28531**	2.50740	0.30000	**1.07099**
	B->Y (RF)	0.01860	0.00100	**0.02707**	0.32940	0.06480	**0.30362**	2.50740	0.30000	**1.59158**

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	**0.01187**	0.32940	0.06480	**0.01429**	2.50740	0.30000	**0.04724**
	B	0.01860	0.00100	**0.01164**	0.32940	0.06480	**0.01445**	2.50740	0.30000	**0.04794**

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	**0.01080**	0.32940	0.06480	**0.01412**	2.50740	0.30000	**0.04794**
	B	0.01860	0.00100	**0.01174**	0.32940	0.06480	**0.01339**	2.50740	0.30000	**0.04712**

XOR2_1

sg13g2_stdcell_typ_1p50V_25C Cell Library: Process
sg13g2_stdcell_typ_1p50V_25C, Voltage 1.50, Temp 25.00

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	0.00579	0.00491	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	427.71900	522.97100	652.81300

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	**0.04950**	0.32940	0.06480	**0.36928**	2.50740	0.30000	**1.44426**
	A->X (FR)	0.01860	0.00100	**0.04213**	0.32940	0.06480	**0.38491**	2.50740	0.30000	**1.91596**
	B->X (RR)	0.01860	0.00100	**0.05182**	0.32940	0.06480	**0.35850**	2.50740	0.30000	**1.39248**
	B->X (FR)	0.01860	0.00100	**0.03562**	0.32940	0.06480	**0.37860**	2.50740	0.30000	**1.90245**

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	**0.05869**	0.32940	0.06480	**0.22220**	2.50740	0.30000	**0.75120**
	A->X (RF)	0.01860	0.00100	**0.03064**	0.32940	0.06480	**0.30800**	2.50740	0.30000	**1.59664**
	B->X (FF)	0.01860	0.00100	**0.05379**	0.32940	0.06480	**0.23055**	2.50740	0.30000	**0.79703**
	B->X (RF)	0.01860	0.00100	**0.02689**	0.32940	0.06480	**0.32613**	2.50740	0.30000	**1.75946**

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	**0.01025**	0.32940	0.06480	**0.01306**	2.50740	0.30000	**0.04577**
	B	0.01860	0.00100	**0.01099**	0.32940	0.06480	**0.01234**	2.50740	0.30000	**0.04435**

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	**0.01361**	0.32940	0.06480	**0.01592**	2.50740	0.30000	**0.04865**
	B	0.01860	0.00100	**0.01246**	0.32940	0.06480	**0.01541**	2.50740	0.30000	**0.04818**