sg13g2_stdcell_typ_1p50V_25C Library

Cell Groups
A21OIx
A21Ox
A221OI
A22OI
AND2x
AND3x
AND4x
ANTENNANP
BUFx
DECAPx
DFRBPQx
DFRBPx
DLHQ
DLHRQ
DLHR
DLLRQ
DLLR
DLYGATE4SD1
DLYGATE4SD2
DLYGATE4SD3
EBUFNx
EINVNx
FILLx

INVx
LGCP
MUX2x
MUX4
NAND2Bx
NAND2x
NAND3B
NAND3
NAND4
NOR2Bx
NOR2x
NOR3x
NOR4x
O21AI
OR2x
OR3x
OR4x
SDFBBP
SDFRBPQx
SDFRBPx
SIGHOLD
SLGCP
TIEHI
TIELO
XNOR2
XOR2

A21OIx

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	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
sg13g2_a21oi_1	9.07200
sg13g2_a21oi_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_a21oi_1	0.00315	0.00324	0.00298	0.30000
sg13g2_a21oi_2	0.00608	0.00645	0.00584	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_1	186.83200	358.54600	459.77800
sg13g2_a21oi_2	373.63200	717.07700	919.55100

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.03323**	0.32940	0.06480	**0.37935**	2.50740	0.30000	**1.89310**
	A2->Y (FR)	0.01860	0.00100	**0.03940**	0.32940	0.06480	**0.38635**	2.50740	0.30000	**1.90419**
	B1->Y (FR)	0.01860	0.00100	**0.03203**	0.32940	0.06480	**0.41608**	2.50740	0.30000	**2.17085**
sg13g2_a21oi_2	A1->Y (FR)	0.01860	0.00100	**0.03028**	0.32940	0.12960	**0.37980**	2.50740	0.60000	**1.89687**
	A2->Y (FR)	0.01860	0.00100	**0.03670**	0.32940	0.12960	**0.38584**	2.50740	0.60000	**1.90255**
	B1->Y (FR)	0.01860	0.00100	**0.02931**	0.32940	0.12960	**0.41549**	2.50740	0.60000	**2.16863**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.02820**	0.32940	0.06480	**0.33674**	2.50740	0.30000	**1.76913**
	A2->Y (RF)	0.01860	0.00100	**0.03070**	0.32940	0.06480	**0.31069**	2.50740	0.30000	**1.59203**
	B1->Y (RF)	0.01860	0.00100	**0.01647**	0.32940	0.06480	**0.25015**	2.50740	0.30000	**1.37058**
sg13g2_a21oi_2	A1->Y (RF)	0.01860	0.00100	**0.02582**	0.32940	0.12960	**0.33648**	2.50740	0.60000	**1.77009**
	A2->Y (RF)	0.01860	0.00100	**0.02862**	0.32940	0.12960	**0.31088**	2.50740	0.60000	**1.59420**
	B1->Y (RF)	0.01860	0.00100	**0.01478**	0.32940	0.12960	**0.24948**	2.50740	0.60000	**1.36886**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.03203**	0.32940	0.06480	**0.41608**	2.50740	0.30000	**2.17085**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02502**	0.32940	0.06480	**0.40757**	2.50740	0.30000	**2.15653**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.02103**	0.32940	0.06480	**0.34257**	2.50740	0.30000	**1.84691**
sg13g2_a21oi_2	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02931**	0.32940	0.12960	**0.41549**	2.50740	0.60000	**2.16863**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02214**	0.32940	0.12960	**0.40894**	2.50740	0.60000	**2.16533**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.01868**	0.32940	0.12960	**0.34283**	2.50740	0.60000	**1.85013**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01647**	0.32940	0.06480	**0.25015**	2.50740	0.30000	**1.37058**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01615**	0.32940	0.06480	**0.24871**	2.50740	0.30000	**1.36794**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01590**	0.32940	0.06480	**0.24853**	2.50740	0.30000	**1.37054**
sg13g2_a21oi_2	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01478**	0.32940	0.12960	**0.24948**	2.50740	0.60000	**1.36886**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01447**	0.32940	0.12960	**0.24803**	2.50740	0.60000	**1.36594**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01418**	0.32940	0.12960	**0.24787**	2.50740	0.60000	**1.36828**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00688**	0.32940	0.06480	**0.00752**	2.50740	0.30000	**0.01797**
	A2	0.01860	0.00100	**0.00732**	0.32940	0.06480	**0.00779**	2.50740	0.30000	**0.01860**
	B1	0.01860	0.00100	**0.00379**	0.32940	0.06480	**0.00504**	2.50740	0.30000	**0.01785**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.01371**	0.32940	0.12960	**0.01522**	2.50740	0.60000	**0.03618**
	A2	0.01860	0.00100	**0.01475**	0.32940	0.12960	**0.01566**	2.50740	0.60000	**0.03680**
	B1	0.01860	0.00100	**0.00777**	0.32940	0.12960	**0.01058**	2.50740	0.60000	**0.03564**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00479**	0.32940	0.06480	**0.00544**	2.50740	0.30000	**0.01582**
	A2	0.01860	0.00100	**0.00745**	0.32940	0.06480	**0.00781**	2.50740	0.30000	**0.01774**
	B1	0.01860	0.00100	**0.00267**	0.32940	0.06480	**0.00412**	2.50740	0.30000	**0.01578**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.00853**	0.32940	0.12960	**0.00983**	2.50740	0.60000	**0.03050**
	A2	0.01860	0.00100	**0.01412**	0.32940	0.12960	**0.01476**	2.50740	0.60000	**0.03460**
	B1	0.01860	0.00100	**0.00425**	0.32940	0.12960	**0.00749**	2.50740	0.60000	**0.03125**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00379**	0.32940	0.06480	**0.00504**	2.50740	0.30000	**0.01785**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00328**	0.32940	0.06480	**0.00480**	2.50740	0.30000	**0.01745**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00330**	0.32940	0.06480	**0.00483**	2.50740	0.30000	**0.01904**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00777**	0.32940	0.12960	**0.01058**	2.50740	0.60000	**0.03564**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00647**	0.32940	0.12960	**0.00963**	2.50740	0.60000	**0.03490**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00651**	0.32940	0.12960	**0.00977**	2.50740	0.60000	**0.03859**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00547**	0.32940	0.06480	**0.00686**	2.50740	0.30000	**0.01747**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00282**	0.32940	0.06480	**0.00423**	2.50740	0.30000	**0.01499**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00267**	0.32940	0.06480	**0.00412**	2.50740	0.30000	**0.01578**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00987**	0.32940	0.12960	**0.01284**	2.50740	0.60000	**0.03425**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00455**	0.32940	0.12960	**0.00753**	2.50740	0.60000	**0.02947**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00425**	0.32940	0.12960	**0.00749**	2.50740	0.60000	**0.03125**

A21Ox

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
sg13g2_a21o_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_1	0.00288	0.00300	0.00279	0.30000
sg13g2_a21o_2	0.00306	0.00309	0.00291	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	405.29900	458.00100	521.31200
sg13g2_a21o_2	524.50300	642.56900	796.61200

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.05559**	0.32940	0.06480	**0.25410**	2.50740	0.30000	**0.89463**
	A2->X (RR)	0.01860	0.00100	**0.05775**	0.32940	0.06480	**0.24800**	2.50740	0.30000	**0.86177**
	B1->X (RR)	0.01860	0.00100	**0.03801**	0.32940	0.06480	**0.22106**	2.50740	0.30000	**0.78307**
sg13g2_a21o_2	A1->X (RR)	0.01860	0.00100	**0.05921**	0.32940	0.12960	**0.26816**	2.50740	0.60000	**0.89590**
	A2->X (RR)	0.01860	0.00100	**0.06126**	0.32940	0.12960	**0.26014**	2.50740	0.60000	**0.86277**
	B1->X (RR)	0.01860	0.00100	**0.04045**	0.32940	0.12960	**0.23488**	2.50740	0.60000	**0.78964**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.06245**	0.32940	0.06480	**0.22716**	2.50740	0.30000	**0.74715**
	A2->X (FF)	0.01860	0.00100	**0.06890**	0.32940	0.06480	**0.23930**	2.50740	0.30000	**0.78064**
	B1->X (FF)	0.01860	0.00100	**0.06164**	0.32940	0.06480	**0.24742**	2.50740	0.30000	**0.83886**
sg13g2_a21o_2	A1->X (FF)	0.01860	0.00100	**0.07863**	0.32940	0.12960	**0.26301**	2.50740	0.60000	**0.83400**
	A2->X (FF)	0.01860	0.00100	**0.08578**	0.32940	0.12960	**0.27539**	2.50740	0.60000	**0.86681**
	B1->X (FF)	0.01860	0.00100	**0.07884**	0.32940	0.12960	**0.28968**	2.50740	0.60000	**0.94036**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	!B1	0.01860	0.00100	**0.05559**	0.32940	0.06480	**0.25410**	2.50740	0.30000	**0.89463**
	A2->X (RR)	!B1	0.01860	0.00100	**0.05775**	0.32940	0.06480	**0.24800**	2.50740	0.30000	**0.86177**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.03801**	0.32940	0.06480	**0.22106**	2.50740	0.30000	**0.78307**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03587**	0.32940	0.06480	**0.21193**	2.50740	0.30000	**0.75529**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.03566**	0.32940	0.06480	**0.21290**	2.50740	0.30000	**0.77621**
sg13g2_a21o_2	A1->X (RR)	!B1	0.01860	0.00100	**0.05921**	0.32940	0.12960	**0.26816**	2.50740	0.60000	**0.89590**
	A2->X (RR)	!B1	0.01860	0.00100	**0.06126**	0.32940	0.12960	**0.26014**	2.50740	0.60000	**0.86277**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.04045**	0.32940	0.12960	**0.23488**	2.50740	0.60000	**0.78964**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03885**	0.32940	0.12960	**0.22610**	2.50740	0.60000	**0.76546**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.03863**	0.32940	0.12960	**0.22641**	2.50740	0.60000	**0.78553**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	!B1	0.01860	0.00100	**0.06245**	0.32940	0.06480	**0.22716**	2.50740	0.30000	**0.74715**
	A2->X (FF)	!B1	0.01860	0.00100	**0.06890**	0.32940	0.06480	**0.23930**	2.50740	0.30000	**0.78064**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.06164**	0.32940	0.06480	**0.24742**	2.50740	0.30000	**0.83886**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.05415**	0.32940	0.06480	**0.23302**	2.50740	0.30000	**0.81369**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.04564**	0.32940	0.06480	**0.21634**	2.50740	0.30000	**0.76172**
sg13g2_a21o_2	A1->X (FF)	!B1	0.01860	0.00100	**0.07863**	0.32940	0.12960	**0.26301**	2.50740	0.60000	**0.83400**
	A2->X (FF)	!B1	0.01860	0.00100	**0.08578**	0.32940	0.12960	**0.27539**	2.50740	0.60000	**0.86681**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.07884**	0.32940	0.12960	**0.28968**	2.50740	0.60000	**0.94036**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.07021**	0.32940	0.12960	**0.27454**	2.50740	0.60000	**0.91363**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.05728**	0.32940	0.12960	**0.25275**	2.50740	0.60000	**0.85568**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01139**	0.32940	0.06480	**0.01379**	2.50740	0.30000	**0.04418**
	A2	0.01860	0.00100	**0.01374**	0.32940	0.06480	**0.01544**	2.50740	0.30000	**0.04446**
	B1	0.01860	0.00100	**0.00952**	0.32940	0.06480	**0.01290**	2.50740	0.30000	**0.04696**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.01819**	0.32940	0.12960	**0.02057**	2.50740	0.60000	**0.05257**
	A2	0.01860	0.00100	**0.02078**	0.32940	0.12960	**0.02238**	2.50740	0.60000	**0.05312**
	B1	0.01860	0.00100	**0.01586**	0.32940	0.12960	**0.01966**	2.50740	0.60000	**0.05533**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01320**	0.32940	0.06480	**0.01509**	2.50740	0.30000	**0.04546**
	A2	0.01860	0.00100	**0.01329**	0.32940	0.06480	**0.01512**	2.50740	0.30000	**0.04520**
	B1	0.01860	0.00100	**0.00992**	0.32940	0.06480	**0.01373**	2.50740	0.30000	**0.04534**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.02059**	0.32940	0.12960	**0.02154**	2.50740	0.60000	**0.05337**
	A2	0.01860	0.00100	**0.02100**	0.32940	0.12960	**0.02171**	2.50740	0.60000	**0.05407**
	B1	0.01860	0.00100	**0.01801**	0.32940	0.12960	**0.02012**	2.50740	0.60000	**0.05431**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.01139**	0.32940	0.06480	**0.01379**	2.50740	0.30000	**0.04418**
	A2	!B1	0.01860	0.00100	**0.01374**	0.32940	0.06480	**0.01544**	2.50740	0.30000	**0.04446**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01196**	0.32940	0.06480	**0.01499**	2.50740	0.30000	**0.04747**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00965**	0.32940	0.06480	**0.01277**	2.50740	0.30000	**0.04474**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00952**	0.32940	0.06480	**0.01290**	2.50740	0.30000	**0.04696**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.01819**	0.32940	0.12960	**0.02057**	2.50740	0.60000	**0.05257**
	A2	!B1	0.01860	0.00100	**0.02078**	0.32940	0.12960	**0.02238**	2.50740	0.60000	**0.05312**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01872**	0.32940	0.12960	**0.02241**	2.50740	0.60000	**0.05628**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01601**	0.32940	0.12960	**0.01954**	2.50740	0.60000	**0.05240**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01586**	0.32940	0.12960	**0.01966**	2.50740	0.60000	**0.05533**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.01320**	0.32940	0.06480	**0.01509**	2.50740	0.30000	**0.04546**
	A2	!B1	0.01860	0.00100	**0.01329**	0.32940	0.06480	**0.01512**	2.50740	0.30000	**0.04520**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01027**	0.32940	0.06480	**0.01358**	2.50740	0.30000	**0.04526**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00992**	0.32940	0.06480	**0.01373**	2.50740	0.30000	**0.04534**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00985**	0.32940	0.06480	**0.01410**	2.50740	0.30000	**0.04822**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.02059**	0.32940	0.12960	**0.02154**	2.50740	0.60000	**0.05337**
	A2	!B1	0.01860	0.00100	**0.02100**	0.32940	0.12960	**0.02171**	2.50740	0.60000	**0.05407**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01801**	0.32940	0.12960	**0.02012**	2.50740	0.60000	**0.05431**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01739**	0.32940	0.12960	**0.02019**	2.50740	0.60000	**0.05420**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01666**	0.32940	0.12960	**0.02052**	2.50740	0.60000	**0.05747**

A221OI

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	B2	C1	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
sg13g2_a221oi_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A1	A2	B1	B2	C1	Y
sg13g2_a221oi_1	0.00310	0.00320	0.00305	0.00319	0.00295	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	279.72700	558.47300	725.26000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (FR)	0.01860	0.00100	**0.07458**	0.32940	0.06480	**0.52769**	2.50740	0.30000	**2.35254**
	A2->Y (FR)	0.01860	0.00100	**0.08345**	0.32940	0.06480	**0.53616**	2.50740	0.30000	**2.35828**
	B1->Y (FR)	0.01860	0.00100	**0.06662**	0.32940	0.06480	**0.54347**	2.50740	0.30000	**2.57697**
	B2->Y (FR)	0.01860	0.00100	**0.07548**	0.32940	0.06480	**0.55171**	2.50740	0.30000	**2.58557**
	C1->Y (FR)	0.01860	0.00100	**0.04286**	0.32940	0.06480	**0.48608**	2.50740	0.30000	**2.47479**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (RF)	0.01860	0.00100	**0.03645**	0.32940	0.06480	**0.35219**	2.50740	0.30000	**1.78973**
	A2->Y (RF)	0.01860	0.00100	**0.03854**	0.32940	0.06480	**0.32572**	2.50740	0.30000	**1.61238**
	B1->Y (RF)	0.01860	0.00100	**0.03294**	0.32940	0.06480	**0.34372**	2.50740	0.30000	**1.77623**
	B2->Y (RF)	0.01860	0.00100	**0.03531**	0.32940	0.06480	**0.31768**	2.50740	0.30000	**1.59791**
	C1->Y (RF)	0.01860	0.00100	**0.01873**	0.32940	0.06480	**0.25246**	2.50740	0.30000	**1.37112**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last

sg13g2_a221oi_1	**A1->Y (FR)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.07458**	0.32940	0.06480	**0.52769**	2.50740	0.30000	**2.35254**
	A1->Y (FR)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.06389**	0.32940	0.06480	**0.51778**	2.50740	0.30000	**2.34580**
	A1->Y (FR)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.05797**	0.32940	0.06480	**0.45818**	2.50740	0.30000	**2.11758**
	A2->Y (FR)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.08345**	0.32940	0.06480	**0.53616**	2.50740	0.30000	**2.35828**
	A2->Y (FR)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.07308**	0.32940	0.06480	**0.52651**	2.50740	0.30000	**2.35345**
	A2->Y (FR)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.06553**	0.32940	0.06480	**0.46526**	2.50740	0.30000	**2.12451**
	B1->Y (FR)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.06662**	0.32940	0.06480	**0.54347**	2.50740	0.30000	**2.57697**
	B1->Y (FR)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.05586**	0.32940	0.06480	**0.53327**	2.50740	0.30000	**2.56871**
	B1->Y (FR)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.04726**	0.32940	0.06480	**0.45961**	2.50740	0.30000	**2.24110**
	B2->Y (FR)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.07548**	0.32940	0.06480	**0.55171**	2.50740	0.30000	**2.58557**
	B2->Y (FR)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.06505**	0.32940	0.06480	**0.54163**	2.50740	0.30000	**2.57752**
	B2->Y (FR)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.05469**	0.32940	0.06480	**0.46640**	2.50740	0.30000	**2.24737**
	C1->Y (FR)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.04068**	0.32940	0.06480	**0.48455**	2.50740	0.30000	**2.47352**
	C1->Y (FR)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.03215**	0.32940	0.06480	**0.47608**	2.50740	0.30000	**2.46797**
	C1->Y (FR)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.04286**	0.32940	0.06480	**0.48608**	2.50740	0.30000	**2.47479**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.03426**	0.32940	0.06480	**0.47862**	2.50740	0.30000	**2.47190**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.02896**	0.32940	0.06480	**0.41164**	2.50740	0.30000	**2.16467**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last

sg13g2_a221oi_1	**A1->Y (RF)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.03582**	0.32940	0.06480	**0.35220**	2.50740	0.30000	**1.78868**
	A1->Y (RF)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.03496**	0.32940	0.06480	**0.34953**	2.50740	0.30000	**1.78555**
	A1->Y (RF)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.03645**	0.32940	0.06480	**0.35219**	2.50740	0.30000	**1.78973**
	A2->Y (RF)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.03792**	0.32940	0.06480	**0.32575**	2.50740	0.30000	**1.61000**
	A2->Y (RF)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.03705**	0.32940	0.06480	**0.32330**	2.50740	0.30000	**1.60831**
	A2->Y (RF)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.03854**	0.32940	0.06480	**0.32572**	2.50740	0.30000	**1.61238**
	B1->Y (RF)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.03294**	0.32940	0.06480	**0.34372**	2.50740	0.30000	**1.77623**
	B1->Y (RF)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.03230**	0.32940	0.06480	**0.34106**	2.50740	0.30000	**1.77259**
	B1->Y (RF)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.03199**	0.32940	0.06480	**0.34094**	2.50740	0.30000	**1.77457**
	B2->Y (RF)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.03531**	0.32940	0.06480	**0.31768**	2.50740	0.30000	**1.59791**
	B2->Y (RF)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.03470**	0.32940	0.06480	**0.31533**	2.50740	0.30000	**1.59585**
	B2->Y (RF)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.03440**	0.32940	0.06480	**0.31507**	2.50740	0.30000	**1.59790**
	C1->Y (RF)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.01873**	0.32940	0.06480	**0.25246**	2.50740	0.30000	**1.37112**
	C1->Y (RF)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.01843**	0.32940	0.06480	**0.25109**	2.50740	0.30000	**1.36838**
	C1->Y (RF)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.01884**	0.32940	0.06480	**0.25246**	2.50740	0.30000	**1.37113**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.01855**	0.32940	0.06480	**0.25109**	2.50740	0.30000	**1.36834**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.01834**	0.32940	0.06480	**0.25094**	2.50740	0.30000	**1.37054**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.01285**	0.32940	0.06480	**0.01274**	2.50740	0.30000	**0.02164**
	A2	0.01860	0.00100	**0.01311**	0.32940	0.06480	**0.01294**	2.50740	0.30000	**0.02206**
	B1	0.01860	0.00100	**0.00985**	0.32940	0.06480	**0.01000**	2.50740	0.30000	**0.01815**
	B2	0.01860	0.00100	**0.01002**	0.32940	0.06480	**0.01016**	2.50740	0.30000	**0.01863**
	C1	0.01860	0.00100	**0.00617**	0.32940	0.06480	**0.00715**	2.50740	0.30000	**0.01866**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.00776**	0.32940	0.06480	**0.00785**	2.50740	0.30000	**0.01707**
	A2	0.01860	0.00100	**0.01032**	0.32940	0.06480	**0.01038**	2.50740	0.30000	**0.01923**
	B1	0.01860	0.00100	**0.00500**	0.32940	0.06480	**0.00546**	2.50740	0.30000	**0.01500**
	B2	0.01860	0.00100	**0.00770**	0.32940	0.06480	**0.00800**	2.50740	0.30000	**0.01710**
	C1	0.01860	0.00100	**0.00290**	0.32940	0.06480	**0.00420**	2.50740	0.30000	**0.01496**

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

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

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01285**	0.32940	0.06480	**0.01274**	2.50740	0.30000	**0.02164**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.01235**	0.32940	0.06480	**0.01235**	2.50740	0.30000	**0.02134**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.01540**	0.32940	0.06480	**0.01551**	2.50740	0.30000	**0.02444**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01311**	0.32940	0.06480	**0.01294**	2.50740	0.30000	**0.02206**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.01272**	0.32940	0.06480	**0.01260**	2.50740	0.30000	**0.02177**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.01572**	0.32940	0.06480	**0.01561**	2.50740	0.30000	**0.02501**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00985**	0.32940	0.06480	**0.01000**	2.50740	0.30000	**0.01815**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.00935**	0.32940	0.06480	**0.00956**	2.50740	0.30000	**0.01780**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00935**	0.32940	0.06480	**0.00978**	2.50740	0.30000	**0.01874**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.01002**	0.32940	0.06480	**0.01016**	2.50740	0.30000	**0.01863**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.00965**	0.32940	0.06480	**0.00972**	2.50740	0.30000	**0.01826**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00961**	0.32940	0.06480	**0.00980**	2.50740	0.30000	**0.01922**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00615**	0.32940	0.06480	**0.00729**	2.50740	0.30000	**0.01857**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00566**	0.32940	0.06480	**0.00686**	2.50740	0.30000	**0.01823**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00617**	0.32940	0.06480	**0.00715**	2.50740	0.30000	**0.01866**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00567**	0.32940	0.06480	**0.00692**	2.50740	0.30000	**0.01828**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00570**	0.32940	0.06480	**0.00713**	2.50740	0.30000	**0.01982**

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

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

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01038**	0.32940	0.06480	**0.01051**	2.50740	0.30000	**0.01971**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00776**	0.32940	0.06480	**0.00785**	2.50740	0.30000	**0.01707**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00638**	0.32940	0.06480	**0.00658**	2.50740	0.30000	**0.01618**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01298**	0.32940	0.06480	**0.01299**	2.50740	0.30000	**0.02171**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.01032**	0.32940	0.06480	**0.01038**	2.50740	0.30000	**0.01923**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00894**	0.32940	0.06480	**0.00898**	2.50740	0.30000	**0.01824**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00780**	0.32940	0.06480	**0.00818**	2.50740	0.30000	**0.01702**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.00514**	0.32940	0.06480	**0.00562**	2.50740	0.30000	**0.01439**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00500**	0.32940	0.06480	**0.00546**	2.50740	0.30000	**0.01500**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.01049**	0.32940	0.06480	**0.01076**	2.50740	0.30000	**0.01900**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.00783**	0.32940	0.06480	**0.00810**	2.50740	0.30000	**0.01645**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00770**	0.32940	0.06480	**0.00800**	2.50740	0.30000	**0.01710**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00560**	0.32940	0.06480	**0.00693**	2.50740	0.30000	**0.01657**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00295**	0.32940	0.06480	**0.00430**	2.50740	0.30000	**0.01419**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00568**	0.32940	0.06480	**0.00691**	2.50740	0.30000	**0.01648**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00302**	0.32940	0.06480	**0.00429**	2.50740	0.30000	**0.01418**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00290**	0.32940	0.06480	**0.00420**	2.50740	0.30000	**0.01496**

A22OI

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	B2	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
sg13g2_a22oi_1	10.84860

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A1	A2	B1	B2	Y
sg13g2_a22oi_1	0.00324	0.00328	0.00317	0.00310	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	185.84500	432.99500	681.16500

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	0.01860	0.00100	**0.03809**	0.32940	0.06480	**0.38430**	2.50740	0.30000	**1.89838**
	A2->Y (FR)	0.01860	0.00100	**0.04373**	0.32940	0.06480	**0.38952**	2.50740	0.30000	**1.90168**
	B1->Y (FR)	0.01860	0.00100	**0.04113**	0.32940	0.06480	**0.42418**	2.50740	0.30000	**2.17155**
	B2->Y (FR)	0.01860	0.00100	**0.03505**	0.32940	0.06480	**0.41658**	2.50740	0.30000	**2.15707**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	0.01860	0.00100	**0.03168**	0.32940	0.06480	**0.34068**	2.50740	0.30000	**1.77457**
	A2->Y (RF)	0.01860	0.00100	**0.03389**	0.32940	0.06480	**0.31468**	2.50740	0.30000	**1.59714**
	B1->Y (RF)	0.01860	0.00100	**0.02755**	0.32940	0.06480	**0.30763**	2.50740	0.30000	**1.58560**
	B2->Y (RF)	0.01860	0.00100	**0.02487**	0.32940	0.06480	**0.33335**	2.50740	0.30000	**1.76355**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	(A2 * B1)	0.01860	0.00100	**0.03809**	0.32940	0.06480	**0.38430**	2.50740	0.30000	**1.89838**
	A2->Y (FR)	(A1 * B1)	0.01860	0.00100	**0.04373**	0.32940	0.06480	**0.38952**	2.50740	0.30000	**1.90168**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.04113**	0.32940	0.06480	**0.42418**	2.50740	0.30000	**2.17155**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03437**	0.32940	0.06480	**0.41581**	2.50740	0.30000	**2.15824**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.03505**	0.32940	0.06480	**0.41658**	2.50740	0.30000	**2.15707**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02840**	0.32940	0.06480	**0.41070**	2.50740	0.30000	**2.15435**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	(A2 * B1)	0.01860	0.00100	**0.03168**	0.32940	0.06480	**0.34068**	2.50740	0.30000	**1.77457**
	A2->Y (RF)	(A1 * B1)	0.01860	0.00100	**0.03389**	0.32940	0.06480	**0.31468**	2.50740	0.30000	**1.59714**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02755**	0.32940	0.06480	**0.30763**	2.50740	0.30000	**1.58560**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02708**	0.32940	0.06480	**0.30526**	2.50740	0.30000	**1.58277**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02487**	0.32940	0.06480	**0.33335**	2.50740	0.30000	**1.76355**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02438**	0.32940	0.06480	**0.33088**	2.50740	0.30000	**1.76011**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00730**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.01830**
	A2	0.01860	0.00100	**0.00758**	0.32940	0.06480	**0.00796**	2.50740	0.30000	**0.01845**
	B1	0.01860	0.00100	**0.00456**	0.32940	0.06480	**0.00554**	2.50740	0.30000	**0.01691**
	B2	0.01860	0.00100	**0.00426**	0.32940	0.06480	**0.00540**	2.50740	0.30000	**0.01624**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00723**	0.32940	0.06480	**0.00778**	2.50740	0.30000	**0.01814**
	A2	0.01860	0.00100	**0.00983**	0.32940	0.06480	**0.01009**	2.50740	0.30000	**0.01999**
	B1	0.01860	0.00100	**0.00943**	0.32940	0.06480	**0.01018**	2.50740	0.30000	**0.01943**
	B2	0.01860	0.00100	**0.00678**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.01761**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00730**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.01830**
	A2	(A1 * B1)	0.01860	0.00100	**0.00758**	0.32940	0.06480	**0.00796**	2.50740	0.30000	**0.01845**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00456**	0.32940	0.06480	**0.00554**	2.50740	0.30000	**0.01691**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00428**	0.32940	0.06480	**0.00529**	2.50740	0.30000	**0.01687**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00426**	0.32940	0.06480	**0.00540**	2.50740	0.30000	**0.01624**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00384**	0.32940	0.06480	**0.00519**	2.50740	0.30000	**0.01596**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00723**	0.32940	0.06480	**0.00778**	2.50740	0.30000	**0.01814**
	A2	(A1 * B1)	0.01860	0.00100	**0.00983**	0.32940	0.06480	**0.01009**	2.50740	0.30000	**0.01999**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00943**	0.32940	0.06480	**0.01018**	2.50740	0.30000	**0.01943**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00676**	0.32940	0.06480	**0.00752**	2.50740	0.30000	**0.01687**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00678**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.01761**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00412**	0.32940	0.06480	**0.00518**	2.50740	0.30000	**0.01481**

AND2x

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
sg13g2_and2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_1	0.00268	0.00270	0.30000
sg13g2_and2_2	0.00266	0.00270	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	314.36700	392.85800	489.11200
sg13g2_and2_2	556.10000	597.66700	672.10500

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.04545**	0.32940	0.06480	**0.23111**	2.50740	0.30000	**0.84299**
	B->X (RR)	0.01860	0.00100	**0.04812**	0.32940	0.06480	**0.22835**	2.50740	0.30000	**0.81776**
sg13g2_and2_2	A->X (RR)	0.01860	0.00100	**0.05585**	0.32940	0.12960	**0.26304**	2.50740	0.60000	**0.90508**
	B->X (RR)	0.01860	0.00100	**0.05833**	0.32940	0.12960	**0.25593**	2.50740	0.60000	**0.87349**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.03981**	0.32940	0.06480	**0.20633**	2.50740	0.30000	**0.71937**
	B->X (FF)	0.01860	0.00100	**0.04366**	0.32940	0.06480	**0.21783**	2.50740	0.30000	**0.75559**
sg13g2_and2_2	A->X (FF)	0.01860	0.00100	**0.04867**	0.32940	0.12960	**0.23719**	2.50740	0.60000	**0.78183**
	B->X (FF)	0.01860	0.00100	**0.05234**	0.32940	0.12960	**0.24712**	2.50740	0.60000	**0.81482**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.01015**	0.32940	0.06480	**0.01320**	2.50740	0.30000	**0.04431**
	B	0.01860	0.00100	**0.01247**	0.32940	0.06480	**0.01465**	2.50740	0.30000	**0.04450**
sg13g2_and2_2	A	0.01860	0.00100	**0.01688**	0.32940	0.12960	**0.01931**	2.50740	0.60000	**0.04969**
	B	0.01860	0.00100	**0.01917**	0.32940	0.12960	**0.02072**	2.50740	0.60000	**0.04980**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.00879**	0.32940	0.06480	**0.01249**	2.50740	0.30000	**0.04364**
	B	0.01860	0.00100	**0.00903**	0.32940	0.06480	**0.01275**	2.50740	0.30000	**0.04374**
sg13g2_and2_2	A	0.01860	0.00100	**0.01507**	0.32940	0.12960	**0.01858**	2.50740	0.60000	**0.04849**
	B	0.01860	0.00100	**0.01532**	0.32940	0.12960	**0.01883**	2.50740	0.60000	**0.04935**

AND3x

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	12.70080
sg13g2_and3_2	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_1	0.00267	0.00267	0.00268	0.30000
sg13g2_and3_2	0.00267	0.00267	0.00268	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	317.58100	437.26200	686.73600
sg13g2_and3_2	559.35800	660.54200	787.78900

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.05924**	0.32940	0.06480	**0.25873**	2.50740	0.30000	**0.92018**
	B->X (RR)	0.01860	0.00100	**0.06519**	0.32940	0.06480	**0.25837**	2.50740	0.30000	**0.90262**
	C->X (RR)	0.01860	0.00100	**0.06768**	0.32940	0.06480	**0.25107**	2.50740	0.30000	**0.86140**
sg13g2_and3_2	A->X (RR)	0.01860	0.00100	**0.07389**	0.32940	0.12960	**0.29599**	2.50740	0.60000	**0.99330**
	B->X (RR)	0.01860	0.00100	**0.07969**	0.32940	0.12960	**0.29310**	2.50740	0.60000	**0.96942**
	C->X (RR)	0.01860	0.00100	**0.08215**	0.32940	0.12960	**0.28260**	2.50740	0.60000	**0.92002**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.04243**	0.32940	0.06480	**0.21122**	2.50740	0.30000	**0.70773**
	B->X (FF)	0.01860	0.00100	**0.04643**	0.32940	0.06480	**0.22338**	2.50740	0.30000	**0.74190**
	C->X (FF)	0.01860	0.00100	**0.04909**	0.32940	0.06480	**0.23224**	2.50740	0.30000	**0.77687**
sg13g2_and3_2	A->X (FF)	0.01860	0.00100	**0.05100**	0.32940	0.12960	**0.24221**	2.50740	0.60000	**0.77215**
	B->X (FF)	0.01860	0.00100	**0.05488**	0.32940	0.12960	**0.25208**	2.50740	0.60000	**0.80158**
	C->X (FF)	0.01860	0.00100	**0.05769**	0.32940	0.12960	**0.25997**	2.50740	0.60000	**0.83449**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.01172**	0.32940	0.06480	**0.01416**	2.50740	0.30000	**0.04302**
	B	0.01860	0.00100	**0.01404**	0.32940	0.06480	**0.01550**	2.50740	0.30000	**0.04313**
	C	0.01860	0.00100	**0.01619**	0.32940	0.06480	**0.01720**	2.50740	0.30000	**0.04584**
sg13g2_and3_2	A	0.01860	0.00100	**0.01931**	0.32940	0.12960	**0.02034**	2.50740	0.60000	**0.04868**
	B	0.01860	0.00100	**0.02148**	0.32940	0.12960	**0.02189**	2.50740	0.60000	**0.04902**
	C	0.01860	0.00100	**0.02361**	0.32940	0.12960	**0.02369**	2.50740	0.60000	**0.05124**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.00903**	0.32940	0.06480	**0.01220**	2.50740	0.30000	**0.04111**
	B	0.01860	0.00100	**0.00938**	0.32940	0.06480	**0.01249**	2.50740	0.30000	**0.04131**
	C	0.01860	0.00100	**0.00961**	0.32940	0.06480	**0.01280**	2.50740	0.30000	**0.04263**
sg13g2_and3_2	A	0.01860	0.00100	**0.01534**	0.32940	0.12960	**0.01836**	2.50740	0.60000	**0.04619**
	B	0.01860	0.00100	**0.01576**	0.32940	0.12960	**0.01868**	2.50740	0.60000	**0.04627**
	C	0.01860	0.00100	**0.01603**	0.32940	0.12960	**0.01886**	2.50740	0.60000	**0.04792**

AND4x

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
sg13g2_and4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_1	0.00250	0.00265	0.00264	0.00266	0.30000
sg13g2_and4_2	0.00249	0.00264	0.00264	0.00265	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	321.04000	465.12500	884.37800
sg13g2_and4_2	562.78200	697.62700	978.28000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.07314**	0.32940	0.06480	**0.28447**	2.50740	0.30000	**0.98640**
	B->X (RR)	0.01860	0.00100	**0.08223**	0.32940	0.06480	**0.28638**	2.50740	0.30000	**0.97816**
	C->X (RR)	0.01860	0.00100	**0.08767**	0.32940	0.06480	**0.28269**	2.50740	0.30000	**0.94391**
	D->X (RR)	0.01860	0.00100	**0.09033**	0.32940	0.06480	**0.27695**	2.50740	0.30000	**0.90113**
sg13g2_and4_2	A->X (RR)	0.01860	0.00100	**0.09204**	0.32940	0.12960	**0.32726**	2.50740	0.60000	**1.06275**
	B->X (RR)	0.01860	0.00100	**0.10100**	0.32940	0.12960	**0.32699**	2.50740	0.60000	**1.04812**
	C->X (RR)	0.01860	0.00100	**0.10638**	0.32940	0.12960	**0.32000**	2.50740	0.60000	**1.00683**
	D->X (RR)	0.01860	0.00100	**0.10905**	0.32940	0.12960	**0.31214**	2.50740	0.60000	**0.95737**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.04454**	0.32940	0.06480	**0.21410**	2.50740	0.30000	**0.69242**
	B->X (FF)	0.01860	0.00100	**0.04869**	0.32940	0.06480	**0.22583**	2.50740	0.30000	**0.72472**
	C->X (FF)	0.01860	0.00100	**0.05166**	0.32940	0.06480	**0.23474**	2.50740	0.30000	**0.75817**
	D->X (FF)	0.01860	0.00100	**0.05356**	0.32940	0.06480	**0.24270**	2.50740	0.30000	**0.79167**
sg13g2_and4_2	A->X (FF)	0.01860	0.00100	**0.05271**	0.32940	0.12960	**0.24457**	2.50740	0.60000	**0.75786**
	B->X (FF)	0.01860	0.00100	**0.05675**	0.32940	0.12960	**0.25428**	2.50740	0.60000	**0.78783**
	C->X (FF)	0.01860	0.00100	**0.05984**	0.32940	0.12960	**0.26227**	2.50740	0.60000	**0.81782**
	D->X (FF)	0.01860	0.00100	**0.06199**	0.32940	0.12960	**0.26926**	2.50740	0.60000	**0.84745**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.01285**	0.32940	0.06480	**0.01488**	2.50740	0.30000	**0.04160**
	B	0.01860	0.00100	**0.01532**	0.32940	0.06480	**0.01634**	2.50740	0.30000	**0.04228**
	C	0.01860	0.00100	**0.01744**	0.32940	0.06480	**0.01813**	2.50740	0.30000	**0.04472**
	D	0.01860	0.00100	**0.01957**	0.32940	0.06480	**0.02001**	2.50740	0.30000	**0.04722**
sg13g2_and4_2	A	0.01860	0.00100	**0.02119**	0.32940	0.12960	**0.02115**	2.50740	0.60000	**0.04710**
	B	0.01860	0.00100	**0.02363**	0.32940	0.12960	**0.02308**	2.50740	0.60000	**0.04778**
	C	0.01860	0.00100	**0.02577**	0.32940	0.12960	**0.02471**	2.50740	0.60000	**0.05018**
	D	0.01860	0.00100	**0.02789**	0.32940	0.12960	**0.02657**	2.50740	0.60000	**0.05288**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.00958**	0.32940	0.06480	**0.01240**	2.50740	0.30000	**0.03968**
	B	0.01860	0.00100	**0.00980**	0.32940	0.06480	**0.01245**	2.50740	0.30000	**0.03938**
	C	0.01860	0.00100	**0.01014**	0.32940	0.06480	**0.01278**	2.50740	0.30000	**0.04094**
	D	0.01860	0.00100	**0.01042**	0.32940	0.06480	**0.01308**	2.50740	0.30000	**0.04235**
sg13g2_and4_2	A	0.01860	0.00100	**0.01596**	0.32940	0.12960	**0.01869**	2.50740	0.60000	**0.04478**
	B	0.01860	0.00100	**0.01627**	0.32940	0.12960	**0.01870**	2.50740	0.60000	**0.04561**
	C	0.01860	0.00100	**0.01665**	0.32940	0.12960	**0.01897**	2.50740	0.60000	**0.04640**
	D	0.01860	0.00100	**0.01703**	0.32940	0.12960	**0.01920**	2.50740	0.60000	**0.04773**

ANTENNANP

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	0.00106

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	6.75000	6.75002	6.75003

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**-0.00041**	0.32940	**-0.00041**	2.50740	**-0.00041**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**0.00041**	0.32940	**0.00041**	2.50740	**0.00041**

BUFx

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_1	7.25760
sg13g2_buf_16	45.36000
sg13g2_buf_2	9.07200
sg13g2_buf_4	14.51520
sg13g2_buf_8	23.58720

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_1	0.00240	0.30000
sg13g2_buf_16	0.01800	4.80000
sg13g2_buf_2	0.00276	0.60000
sg13g2_buf_4	0.00390	1.20000
sg13g2_buf_8	0.00904	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_1	270.74000	290.43800	310.13600
sg13g2_buf_16	2952.77000	3691.98000	4431.19000
sg13g2_buf_2	397.54200	481.47400	565.40700
sg13g2_buf_4	678.32100	883.10500	1087.89000
sg13g2_buf_8	1476.38000	1845.99000	2215.60000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.03569**	0.32940	0.06480	**0.21618**	2.50740	0.30000	**0.80520**
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.04059**	0.32940	1.03680	**0.24042**	2.50740	4.80000	**0.85638**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.04035**	0.32940	0.12960	**0.23587**	2.50740	0.60000	**0.84915**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.05090**	0.32940	0.25920	**0.26811**	2.50740	1.20000	**0.96818**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.04037**	0.32940	0.51840	**0.23938**	2.50740	2.40000	**0.85418**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.03731**	0.32940	0.06480	**0.19985**	2.50740	0.30000	**0.71118**
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.04472**	0.32940	1.03680	**0.23211**	2.50740	4.80000	**0.78139**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.04292**	0.32940	0.12960	**0.22223**	2.50740	0.60000	**0.75134**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.04392**	0.32940	0.25920	**0.22531**	2.50740	1.20000	**0.71419**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.04440**	0.32940	0.51840	**0.23129**	2.50740	2.40000	**0.78208**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00883**	0.32940	0.06480	**0.01221**	2.50740	0.30000	**0.04254**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.11782**	0.32940	1.03680	**0.14471**	2.50740	4.80000	**0.39628**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01536**	0.32940	0.12960	**0.01926**	2.50740	0.60000	**0.05466**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02935**	0.32940	0.25920	**0.03364**	2.50740	1.20000	**0.08571**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.05907**	0.32940	0.51840	**0.07314**	2.50740	2.40000	**0.19881**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00870**	0.32940	0.06480	**0.01257**	2.50740	0.30000	**0.04344**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.11690**	0.32940	1.03680	**0.14978**	2.50740	4.80000	**0.40217**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01509**	0.32940	0.12960	**0.01990**	2.50740	0.60000	**0.05525**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02932**	0.32940	0.25920	**0.03629**	2.50740	1.20000	**0.08627**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.05831**	0.32940	0.51840	**0.07430**	2.50740	2.40000	**0.20030**

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	1670.69000	1670.69000	1670.69000
sg13g2_decap_8	3341.41000	3341.41000	3341.41000

DFRBPQx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbpq_1	48.98880
sg13g2_dfrbpq_2	50.80320

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	D	RESET_B	Q
sg13g2_dfrbpq_1	0.00293	0.00147	0.00535	0.30000
sg13g2_dfrbpq_2	0.00294	0.00148	0.00539	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbpq_1	1248.86000	1451.86000	1645.02000
sg13g2_dfrbpq_2	1478.65000	1625.68000	1874.82000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.10583**	0.32940	0.06480	**0.29618**	2.50740	0.30000	**0.87517**
sg13g2_dfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.11389**	0.32940	0.12960	**0.30850**	2.50740	0.60000	**0.88717**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.10430**	0.32940	0.06480	**0.26922**	2.50740	0.30000	**0.74056**
	RESET_B->Q (FF)	0.01860	0.00100	**0.14989**	0.32940	0.06480	**0.35499**	2.50740	0.30000	**0.97590**
sg13g2_dfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.11271**	0.32940	0.12960	**0.28338**	2.50740	0.60000	**0.75506**
	RESET_B->Q (FF)	0.01860	0.00100	**0.15754**	0.32940	0.12960	**0.36818**	2.50740	0.60000	**0.98939**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06378**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06058**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08301**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08301**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.17414**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.19775**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.17414**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.19775**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.22137**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.18889**	2.50740	2.50740	**0.26859**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.22137**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.26859**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28925**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.28335**
sg13g2_dfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28925**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.28335**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	**0.03974**	0.32940	0.06480	**0.04442**	2.50740	0.30000	**0.09349**
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	**0.04522**	0.32940	0.12960	**0.05015**	2.50740	0.60000	**0.09914**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	**0.04116**	0.32940	0.06480	**0.04637**	2.50740	0.30000	**0.09337**
	RESET_B	0.01860	0.00100	**0.02644**	0.32940	0.06480	**0.02952**	2.50740	0.30000	**0.05066**
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	**0.04640**	0.32940	0.12960	**0.05240**	2.50740	0.60000	**0.09927**
	RESET_B	0.01860	0.00100	**0.03161**	0.32940	0.12960	**0.03525**	2.50740	0.60000	**0.05617**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.01667**	0.32940	**0.02070**	2.50740	**0.06720**
sg13g2_dfrbpq_2	0.01860	**0.01675**	0.32940	**0.02084**	2.50740	**0.06721**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.03231**	0.32940	**0.03696**	2.50740	**0.08649**
sg13g2_dfrbpq_2	0.01860	**0.03232**	0.32940	**0.03696**	2.50740	**0.08647**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.01667**	0.32940	**0.02070**	2.50740	**0.06720**
	(D * !RESET_B * !Q)	0.01860	**0.01754**	0.32940	**0.02152**	2.50740	**0.06793**
	(!D * RESET_B * !Q)	0.01860	**0.01631**	0.32940	**0.02033**	2.50740	**0.06679**
	(!D * !RESET_B * !Q)	0.01860	**0.01757**	0.32940	**0.02155**	2.50740	**0.06795**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.01675**	0.32940	**0.02084**	2.50740	**0.06721**
	(D * !RESET_B * !Q)	0.01860	**0.01763**	0.32940	**0.02166**	2.50740	**0.06798**
	(!D * RESET_B * !Q)	0.01860	**0.01641**	0.32940	**0.02044**	2.50740	**0.06687**
	(!D * !RESET_B * !Q)	0.01860	**0.01767**	0.32940	**0.02168**	2.50740	**0.06796**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.03339**	0.32940	**0.03803**	2.50740	**0.08761**
	(D * RESET_B * !Q)	0.01860	**0.03231**	0.32940	**0.03696**	2.50740	**0.08649**
	(D * !RESET_B * !Q)	0.01860	**0.01651**	0.32940	**0.02109**	2.50740	**0.06893**
	(!D * RESET_B * Q)	0.01860	**0.05618**	0.32940	**0.06038**	2.50740	**0.10851**
	(!D * RESET_B * !Q)	0.01860	**0.01648**	0.32940	**0.02108**	2.50740	**0.06895**
	(!D * !RESET_B * !Q)	0.01860	**0.01649**	0.32940	**0.02107**	2.50740	**0.06891**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.03510**	0.32940	**0.03973**	2.50740	**0.08925**
	(D * RESET_B * !Q)	0.01860	**0.03232**	0.32940	**0.03696**	2.50740	**0.08647**
	(D * !RESET_B * !Q)	0.01860	**0.01655**	0.32940	**0.02113**	2.50740	**0.06897**
	(!D * RESET_B * Q)	0.01860	**0.06337**	0.32940	**0.06745**	2.50740	**0.11530**
	(!D * RESET_B * !Q)	0.01860	**0.01654**	0.32940	**0.02112**	2.50740	**0.06898**
	(!D * !RESET_B * !Q)	0.01860	**0.01655**	0.32940	**0.02111**	2.50740	**0.06894**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00208**	0.32940	**0.00374**	2.50740	**0.02070**
sg13g2_dfrbpq_2	0.01860	**0.00208**	0.32940	**0.00374**	2.50740	**0.02068**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00168**	0.32940	**0.00349**	2.50740	**0.02122**
sg13g2_dfrbpq_2	0.01860	**0.00169**	0.32940	**0.00350**	2.50740	**0.02123**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00208**	0.32940	**0.00374**	2.50740	**0.02070**
	(!CLK * RESET_B)	0.01860	**0.01845**	0.32940	**0.02012**	2.50740	**0.03981**
	(!CLK * !RESET_B)	0.01860	**-0.00006**	0.32940	**-0.00005**	2.50740	**-0.00005**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00208**	0.32940	**0.00374**	2.50740	**0.02068**
	(!CLK * RESET_B)	0.01860	**0.01841**	0.32940	**0.02009**	2.50740	**0.03978**
	(!CLK * !RESET_B)	0.01860	**-0.00005**	0.32940	**-0.00005**	2.50740	**-0.00005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00168**	0.32940	**0.00349**	2.50740	**0.02122**
	(!CLK * RESET_B)	0.01860	**0.01418**	0.32940	**0.01611**	2.50740	**0.03707**
	(!CLK * !RESET_B)	0.01860	**0.00038**	0.32940	**0.00039**	2.50740	**0.00039**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00169**	0.32940	**0.00350**	2.50740	**0.02123**
	(!CLK * RESET_B)	0.01860	**0.01422**	0.32940	**0.01614**	2.50740	**0.03710**
	(!CLK * !RESET_B)	0.01860	**0.00038**	0.32940	**0.00038**	2.50740	**0.00039**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00504**	0.32940	**0.00593**	2.50740	**0.02222**
sg13g2_dfrbpq_2	0.01860	**0.00510**	0.32940	**0.00597**	2.50740	**0.02224**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.01402**	0.32940	**0.01544**	2.50740	**0.04233**
sg13g2_dfrbpq_2	0.01860	**0.01401**	0.32940	**0.01542**	2.50740	**0.04235**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**(CLK * D * !Q)**	0.01860	**0.00504**	0.32940	**0.00593**	2.50740	**0.02222**
	(CLK * !D * !Q)	0.01860	**0.00114**	0.32940	**0.00114**	2.50740	**0.00113**
	(!CLK * D * !Q)	0.01860	**0.02166**	0.32940	**0.02281**	2.50740	**0.04807**
	(!CLK * !D * !Q)	0.01860	**0.00128**	0.32940	**0.00128**	2.50740	**0.00127**
sg13g2_dfrbpq_2	**(CLK * D * !Q)**	0.01860	**0.00510**	0.32940	**0.00597**	2.50740	**0.02224**
	(CLK * !D * !Q)	0.01860	**0.00119**	0.32940	**0.00119**	2.50740	**0.00119**
	(!CLK * D * !Q)	0.01860	**0.02168**	0.32940	**0.02283**	2.50740	**0.04809**
	(!CLK * !D * !Q)	0.01860	**0.00132**	0.32940	**0.00133**	2.50740	**0.00133**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(CLK * D * !Q)	0.01860	**0.04054**	0.32940	**0.04452**	2.50740	**0.09273**
	(CLK * !D * !Q)	0.01860	**-0.00114**	0.32940	**-0.00114**	2.50740	**-0.00113**
	(!CLK * D * !Q)	0.01860	**0.01402**	0.32940	**0.01544**	2.50740	**0.04233**
	(!CLK * !D * !Q)	0.01860	**-0.00128**	0.32940	**-0.00128**	2.50740	**-0.00127**
sg13g2_dfrbpq_2	(CLK * D * !Q)	0.01860	**0.04583**	0.32940	**0.04984**	2.50740	**0.09803**
	(CLK * !D * !Q)	0.01860	**-0.00119**	0.32940	**-0.00119**	2.50740	**-0.00119**
	(!CLK * D * !Q)	0.01860	**0.01401**	0.32940	**0.01542**	2.50740	**0.04235**
	(!CLK * !D * !Q)	0.01860	**-0.00132**	0.32940	**-0.00133**	2.50740	**-0.00133**

DFRBPx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_1	52.61760
sg13g2_dfrbp_2	54.43200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CLK	D	RESET_B	Q	Q_N
sg13g2_dfrbp_1	0.00296	0.00162	0.00541	0.30000	0.30000
sg13g2_dfrbp_2	0.00297	0.00162	0.00546	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_1	1342.76000	1595.04000	1820.69000
sg13g2_dfrbp_2	1666.44000	1912.04000	2124.31000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.12679**	0.32940	0.06480	**0.31266**	2.50740	0.30000	**0.89729**
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.16187**	0.32940	0.12960	**0.34459**	2.50740	0.60000	**0.93614**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.11578**	0.32940	0.06480	**0.27899**	2.50740	0.30000	**0.75208**
	RESET_B->Q (FF)	0.01860	0.00100	**0.16327**	0.32940	0.06480	**0.36635**	2.50740	0.30000	**0.98883**
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.14019**	0.32940	0.12960	**0.30484**	2.50740	0.60000	**0.78188**
	RESET_B->Q (FF)	0.01860	0.00100	**0.18821**	0.32940	0.12960	**0.39258**	2.50740	0.60000	**1.01932**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.09109**	0.32940	0.06480	**0.29300**	2.50740	0.30000	**0.85581**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.13882**	0.32940	0.06480	**0.37895**	2.50740	0.30000	**1.09220**
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.09432**	0.32940	0.12960	**0.30291**	2.50740	0.60000	**0.86759**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.14304**	0.32940	0.12960	**0.38937**	2.50740	0.60000	**1.10424**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.09812**	0.32940	0.06480	**0.29794**	2.50740	0.30000	**0.80113**
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.10577**	0.32940	0.12960	**0.31506**	2.50740	0.60000	**0.82023**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08942**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08301**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08301**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03912**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.17119**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.19775**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03912**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.17119**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.19775**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.22137**
	setup	**CLK (R)**	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.18889**	2.50740	2.50740	**0.27154**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.22137**
	setup	**CLK (R)**	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.18889**	2.50740	2.50740	**0.26859**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28925**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.28335**
sg13g2_dfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28925**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.28630**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.07980**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.07980**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.04904**	0.32940	0.06480	**0.12501**	2.50740	0.30000	**0.43806**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.06340**	0.32940	0.12960	**0.21011**	2.50740	0.60000	**0.78750**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.04919**	0.32940	0.06480	**0.12635**	2.50740	0.30000	**0.43680**
	RESET_B	0.01860	0.00100	**0.03496**	0.32940	0.06480	**0.10975**	2.50740	0.30000	**0.39460**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.06180**	0.32940	0.12960	**0.21148**	2.50740	0.60000	**0.78568**
	RESET_B	0.01860	0.00100	**0.04766**	0.32940	0.12960	**0.19447**	2.50740	0.60000	**0.74399**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.04921**	0.32940	0.06480	**0.12628**	2.50740	0.30000	**0.43825**
	RESET_B	0.01860	0.00100	**0.03494**	0.32940	0.06480	**0.10995**	2.50740	0.30000	**0.39559**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.06185**	0.32940	0.12960	**0.21179**	2.50740	0.60000	**0.78831**
	RESET_B	0.01860	0.00100	**0.04766**	0.32940	0.12960	**0.19526**	2.50740	0.60000	**0.74486**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.04905**	0.32940	0.06480	**0.12488**	2.50740	0.30000	**0.43690**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.06343**	0.32940	0.12960	**0.21018**	2.50740	0.60000	**0.78432**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.01669**	0.32940	**0.02076**	2.50740	**0.06718**
sg13g2_dfrbp_2	0.01860	**0.01680**	0.32940	**0.02084**	2.50740	**0.06725**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.03193**	0.32940	**0.03655**	2.50740	**0.08611**
sg13g2_dfrbp_2	0.01860	**0.03216**	0.32940	**0.03676**	2.50740	**0.08627**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.01669**	0.32940	**0.02076**	2.50740	**0.06718**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01754**	0.32940	**0.02153**	2.50740	**0.06792**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01634**	0.32940	**0.02036**	2.50740	**0.06675**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01757**	0.32940	**0.02157**	2.50740	**0.06792**
sg13g2_dfrbp_2	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.01680**	0.32940	**0.02084**	2.50740	**0.06725**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01766**	0.32940	**0.02167**	2.50740	**0.06792**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01644**	0.32940	**0.02048**	2.50740	**0.06680**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01769**	0.32940	**0.02169**	2.50740	**0.06796**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.03193**	0.32940	**0.03655**	2.50740	**0.08611**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03234**	0.32940	**0.03695**	2.50740	**0.08649**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01654**	0.32940	**0.02109**	2.50740	**0.06896**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.06217**	0.32940	**0.06602**	2.50740	**0.11374**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01650**	0.32940	**0.02108**	2.50740	**0.06894**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01652**	0.32940	**0.02107**	2.50740	**0.06893**
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.03216**	0.32940	**0.03676**	2.50740	**0.08627**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03236**	0.32940	**0.03695**	2.50740	**0.08645**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01661**	0.32940	**0.02114**	2.50740	**0.06895**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.08191**	0.32940	**0.07906**	2.50740	**0.12684**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01659**	0.32940	**0.02112**	2.50740	**0.06897**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01659**	0.32940	**0.02111**	2.50740	**0.06892**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00208**	0.32940	**0.00374**	2.50740	**0.02069**
sg13g2_dfrbp_2	0.01860	**0.00209**	0.32940	**0.00374**	2.50740	**0.02068**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00167**	0.32940	**0.00349**	2.50740	**0.02122**
sg13g2_dfrbp_2	0.01860	**0.00169**	0.32940	**0.00350**	2.50740	**0.02123**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00208**	0.32940	**0.00374**	2.50740	**0.02069**
	(!CLK * RESET_B)	0.01860	**0.01846**	0.32940	**0.02012**	2.50740	**0.03981**
	(!CLK * !RESET_B)	0.01860	**-0.00006**	0.32940	**-0.00005**	2.50740	**-0.00005**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00209**	0.32940	**0.00374**	2.50740	**0.02068**
	(!CLK * RESET_B)	0.01860	**0.01844**	0.32940	**0.02010**	2.50740	**0.03978**
	(!CLK * !RESET_B)	0.01860	**-0.00005**	0.32940	**-0.00005**	2.50740	**-0.00005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00167**	0.32940	**0.00349**	2.50740	**0.02122**
	(!CLK * RESET_B)	0.01860	**0.01420**	0.32940	**0.01611**	2.50740	**0.03707**
	(!CLK * !RESET_B)	0.01860	**0.00038**	0.32940	**0.00039**	2.50740	**0.00039**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00169**	0.32940	**0.00350**	2.50740	**0.02123**
	(!CLK * RESET_B)	0.01860	**0.01422**	0.32940	**0.01614**	2.50740	**0.03710**
	(!CLK * !RESET_B)	0.01860	**0.00038**	0.32940	**0.00038**	2.50740	**0.00039**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00505**	0.32940	**0.00593**	2.50740	**0.02223**
sg13g2_dfrbp_2	0.01860	**0.00509**	0.32940	**0.00599**	2.50740	**0.02225**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.01402**	0.32940	**0.01544**	2.50740	**0.04233**
sg13g2_dfrbp_2	0.01860	**0.01399**	0.32940	**0.01541**	2.50740	**0.04236**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00505**	0.32940	**0.00593**	2.50740	**0.02223**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00114**	0.32940	**0.00114**	2.50740	**0.00114**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02164**	0.32940	**0.02281**	2.50740	**0.04807**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00127**	0.32940	**0.00128**	2.50740	**0.00127**
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00509**	0.32940	**0.00599**	2.50740	**0.02225**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00119**	0.32940	**0.00120**	2.50740	**0.00120**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02169**	0.32940	**0.02284**	2.50740	**0.04811**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00133**	0.32940	**0.00134**	2.50740	**0.00134**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.04805**	0.32940	**0.05211**	2.50740	**0.10077**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00114**	0.32940	**-0.00114**	2.50740	**-0.00114**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01402**	0.32940	**0.01544**	2.50740	**0.04233**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00127**	0.32940	**-0.00128**	2.50740	**-0.00127**
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.06108**	0.32940	**0.06519**	2.50740	**0.11418**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00119**	0.32940	**-0.00120**	2.50740	**-0.00120**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01399**	0.32940	**0.01541**	2.50740	**0.04236**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00133**	0.32940	**-0.00134**	2.50740	**-0.00134**

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	0.00242	0.00245	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	933.36400	1024.94000	1136.46000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.12072**	0.32940	0.06480	**0.29861**	2.50740	0.30000	**0.85482**
	GATE->Q (RR)	0.01860	0.00100	**0.10274**	0.32940	0.06480	**0.28120**	2.50740	0.30000	**0.80279**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.10587**	0.32940	0.06480	**0.26559**	2.50740	0.30000	**0.74036**
	GATE->Q (RF)	0.01860	0.00100	**0.10909**	0.32940	0.06480	**0.26360**	2.50740	0.30000	**0.68022**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.06602**	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	**0.12682**	2.50740	2.50740	**0.14167**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.02445**	1.26300	1.26300	**0.01619**	2.50740	2.50740	**0.05608**
	setup	GATE (F)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**-0.01079**	2.50740	2.50740	**-0.05018**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.05417**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.02351**	0.32940	0.06480	**0.02396**	2.50740	0.30000	**0.02455**
	GATE	0.01860	0.00100	**0.02015**	0.32940	0.06480	**0.02074**	2.50740	0.30000	**0.02296**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.02436**	0.32940	0.06480	**0.02506**	2.50740	0.30000	**0.02589**
	GATE	0.01860	0.00100	**0.02187**	0.32940	0.06480	**0.02305**	2.50740	0.30000	**0.02281**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00538**	0.32940	**0.00822**	2.50740	**0.04002**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00572**	0.32940	**0.00891**	2.50740	**0.04141**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00544**	0.32940	**0.00824**	2.50740	**0.03997**
	(!GATE * !Q)	0.01860	**0.00538**	0.32940	**0.00822**	2.50740	**0.04002**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00558**	0.32940	**0.00888**	2.50740	**0.04140**
	(!GATE * !Q)	0.01860	**0.00572**	0.32940	**0.00891**	2.50740	**0.04141**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.01245**	0.32940	**0.01599**	2.50740	**0.05530**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.02339**	0.32940	**0.02762**	2.50740	**0.06996**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.01245**	0.32940	**0.01599**	2.50740	**0.05530**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.02339**	0.32940	**0.02762**	2.50740	**0.06996**

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	GATE	RESET_B	Q
x	x	0	0
x	0	1	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	GATE	RESET_B	Q
sg13g2_dlhrq_1	0.00226	0.00235	0.00311	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	1021.81000	1155.65000	1259.72000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.12715**	0.32940	0.06480	**0.30867**	2.50740	0.30000	**0.86141**
	GATE->Q (RR)	0.01860	0.00100	**0.11415**	0.32940	0.06480	**0.29707**	2.50740	0.30000	**0.81776**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.11150**	0.32940	0.06480	**0.27329**	2.50740	0.30000	**0.75409**
	GATE->Q (RF)	0.01860	0.00100	**0.11635**	0.32940	0.06480	**0.27469**	2.50740	0.30000	**0.70052**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04621**	0.32940	0.06480	**0.22591**	2.50740	0.30000	**0.77255**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.06113**	1.26300	1.26300	**-0.09444**	2.50740	2.50740	**-0.08559**
	setup	GATE (F)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.11603**	2.50740	2.50740	**0.12397**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**0.01619**	2.50740	2.50740	**0.05313**
	setup	GATE (F)	0.01860	0.01860	**0.03179**	1.26300	1.26300	**-0.01079**	2.50740	2.50740	**-0.05018**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.05417**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.01223**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.17709**
	removal	GATE (F)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**0.12143**	2.50740	2.50740	**0.18595**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.12787**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00122**	0.32940	0.06480	**0.00176**	2.50740	0.30000	**0.00172**
	GATE	0.01860	0.00100	**0.01537**	0.32940	0.06480	**0.01582**	2.50740	0.30000	**0.01579**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**-0.00122**	0.32940	0.06480	**-0.00176**	2.50740	0.30000	**-0.00172**
	GATE	0.01860	0.00100	**0.01536**	0.32940	0.06480	**0.01648**	2.50740	0.30000	**0.01383**
	RESET_B	0.01860	0.00100	**0.01183**	0.32940	0.06480	**0.01612**	2.50740	0.30000	**0.05356**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.02775**	0.32940	**0.03042**	2.50740	**0.06281**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.03578**	0.32940	**0.04189**	2.50740	**0.07574**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00430**	0.32940	**0.00715**	2.50740	**0.03893**
	!RESET_B	0.01860	**0.02775**	0.32940	**0.03042**	2.50740	**0.06281**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00519**	0.32940	**0.00849**	2.50740	**0.04099**
	!RESET_B	0.01860	**0.03578**	0.32940	**0.04189**	2.50740	**0.07574**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01808**	0.32940	**0.02155**	2.50740	**0.06307**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.02382**	0.32940	**0.02802**	2.50740	**0.06996**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.01808**	0.32940	**0.02155**	2.50740	**0.06307**
	(!D * !RESET_B * !Q)	0.01860	**0.01306**	0.32940	**0.01654**	2.50740	**0.05558**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.01904**	0.32940	**0.02331**	2.50740	**0.06688**
	(!D * RESET_B * !Q)	0.01860	**0.02382**	0.32940	**0.02802**	2.50740	**0.06996**
	(!D * !RESET_B * !Q)	0.01860	**0.02395**	0.32940	**0.02823**	2.50740	**0.07014**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**-0.00008**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.00008**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	**(D * !GATE * !Q)**	0.01860	**-0.00008**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	**(D * !GATE * !Q)**	0.01860	**0.00008**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	GATE	RESET_B	Q	Q_N
x	x	0	0	1
x	0	1	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	GATE	RESET_B	Q	Q_N
sg13g2_dlhr_1	0.00221	0.00240	0.00328	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	1299.44000	1440.33000	1537.40000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.13726**	0.32940	0.06480	**0.32277**	2.50740	0.30000	**0.87660**
	GATE->Q (RR)	0.01860	0.00100	**0.12480**	0.32940	0.06480	**0.31286**	2.50740	0.30000	**0.83506**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.11566**	0.32940	0.06480	**0.27960**	2.50740	0.30000	**0.75618**
	GATE->Q (RF)	0.01860	0.00100	**0.12060**	0.32940	0.06480	**0.28163**	2.50740	0.30000	**0.70417**
	RESET_B->Q (FF)	0.01860	0.00100	**0.05019**	0.32940	0.06480	**0.23901**	2.50740	0.30000	**0.78827**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.14154**	0.32940	0.06480	**0.31979**	2.50740	0.30000	**0.88635**
	GATE->Q_N (RR)	0.01860	0.00100	**0.14659**	0.32940	0.06480	**0.32187**	2.50740	0.30000	**0.83436**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07614**	0.32940	0.06480	**0.27299**	2.50740	0.30000	**0.86547**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.16592**	0.32940	0.06480	**0.31681**	2.50740	0.30000	**0.78037**
	GATE->Q_N (RF)	0.01860	0.00100	**0.15326**	0.32940	0.06480	**0.30699**	2.50740	0.30000	**0.73875**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.09714**	2.50740	2.50740	**-0.09150**
	setup	GATE (F)	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.11873**	2.50740	2.50740	**0.12987**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**0.01619**	2.50740	2.50740	**0.05313**
	setup	GATE (F)	0.01860	0.01860	**0.03423**	1.26300	1.26300	**-0.01079**	2.50740	2.50740	**-0.04722**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.06058**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**-0.00489**	1.26300	1.26300	**-0.07825**	2.50740	2.50740	**-0.12692**
	removal	GATE (F)	0.01860	0.01860	**0.01467**	1.26300	1.26300	**0.08905**	2.50740	2.50740	**0.13577**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.13107**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00719**	0.32940	0.06480	**0.00773**	2.50740	0.30000	**0.00761**
	GATE	0.01860	0.00100	**0.01411**	0.32940	0.06480	**0.01457**	2.50740	0.30000	**0.01441**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00262**	0.32940	0.06480	**0.00160**	2.50740	0.30000	**0.00104**
	GATE	0.01860	0.00100	**0.01407**	0.32940	0.06480	**0.01486**	2.50740	0.30000	**0.01303**
	RESET_B	0.01860	0.00100	**0.01213**	0.32940	0.06480	**0.01452**	2.50740	0.30000	**0.03535**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00264**	0.32940	0.06480	**0.00169**	2.50740	0.30000	**0.00131**
	GATE	0.01860	0.00100	**0.02288**	0.32940	0.06480	**0.02549**	2.50740	0.30000	**0.04497**
	RESET_B	0.01860	0.00100	**0.01217**	0.32940	0.06480	**0.01449**	2.50740	0.30000	**0.03561**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00719**	0.32940	0.06480	**0.00771**	2.50740	0.30000	**0.00711**
	GATE	0.01860	0.00100	**0.01411**	0.32940	0.06480	**0.01447**	2.50740	0.30000	**0.01397**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.02715**	0.32940	**0.02987**	2.50740	**0.06240**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.03531**	0.32940	**0.04161**	2.50740	**0.07555**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00469**	0.32940	**0.00755**	2.50740	**0.03943**
	!RESET_B	0.01860	**0.02715**	0.32940	**0.02987**	2.50740	**0.06240**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00546**	0.32940	**0.00881**	2.50740	**0.04144**
	!RESET_B	0.01860	**0.03531**	0.32940	**0.04161**	2.50740	**0.07555**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01758**	0.32940	**0.02110**	2.50740	**0.06274**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.02361**	0.32940	**0.02784**	2.50740	**0.06914**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01758**	0.32940	**0.02110**	2.50740	**0.06274**
	(!D * !RESET_B * !Q)	0.01860	**0.01260**	0.32940	**0.01612**	2.50740	**0.05521**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01944**	0.32940	**0.02379**	2.50740	**0.06746**
	(!D * RESET_B * !Q)	0.01860	**0.02361**	0.32940	**0.02784**	2.50740	**0.06914**
	(!D * !RESET_B * !Q)	0.01860	**0.02369**	0.32940	**0.02792**	2.50740	**0.06916**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**-0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**-0.00022**	0.32940	**-0.00008**	2.50740	**-0.00003**
	(!D * !GATE * !Q)	0.01860	**-0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00022**	0.32940	**0.00008**	2.50740	**0.00003**
	(!D * !GATE * !Q)	0.01860	**0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

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	GATE_N	RESET_B	Q
0	0	x	0
x	1	0	0
x	1	1	IQ
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	GATE_N	RESET_B	Q
sg13g2_dllrq_1	0.00217	0.00231	0.00318	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	1021.71000	1155.63000	1259.75000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.12630**	0.32940	0.06480	**0.30664**	2.50740	0.30000	**0.85985**
	GATE_N->Q (FR)	0.01860	0.00100	**0.14050**	0.32940	0.06480	**0.33814**	2.50740	0.30000	**0.96264**
	RESET_B->Q (RR)	0.01860	0.00100	**0.05722**	0.32940	0.06480	**0.24008**	2.50740	0.30000	**0.84450**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.11085**	0.32940	0.06480	**0.27127**	2.50740	0.30000	**0.74890**
	GATE_N->Q (FF)	0.01860	0.00100	**0.10649**	0.32940	0.06480	**0.28454**	2.50740	0.30000	**0.83436**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04659**	0.32940	0.06480	**0.22532**	2.50740	0.30000	**0.77089**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.06206**	2.50740	2.50740	**-0.08855**
	setup	GATE_N (R)	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.07016**	2.50740	2.50740	**0.09445**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.05624**	1.26300	1.26300	**-0.17000**	2.50740	2.50740	**-0.23908**
	setup	GATE_N (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.19158**	2.50740	2.50740	**0.27154**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.07019**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.02445**	1.26300	1.26300	**-0.05397**	2.50740	2.50740	**-0.04132**
	removal	GATE_N (R)	0.01860	0.01860	**0.03423**	1.26300	1.26300	**0.05936**	2.50740	2.50740	**0.05018**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.12787**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.01073**	0.32940	0.06480	**0.01134**	2.50740	0.30000	**0.01191**
	GATE_N	0.01860	0.00100	**0.01063**	0.32940	0.06480	**0.01088**	2.50740	0.30000	**0.00995**
	RESET_B	0.01860	0.00100	**0.01572**	0.32940	0.06480	**0.01764**	2.50740	0.30000	**0.05320**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00391**	0.32940	0.06480	**0.00070**	2.50740	0.30000	**0.00010**
	GATE_N	0.01860	0.00100	**0.00870**	0.32940	0.06480	**0.00950**	2.50740	0.30000	**0.01122**
	RESET_B	0.01860	0.00100	**0.01202**	0.32940	0.06480	**0.01625**	2.50740	0.30000	**0.05399**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01807**	0.32940	**0.02074**	2.50740	**0.05265**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.02431**	0.32940	**0.03141**	2.50740	**0.06531**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00420**	0.32940	**0.00704**	2.50740	**0.03890**
	!RESET_B	0.01860	**0.01807**	0.32940	**0.02074**	2.50740	**0.05265**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00514**	0.32940	**0.00847**	2.50740	**0.04107**
	!RESET_B	0.01860	**0.02431**	0.32940	**0.03141**	2.50740	**0.06531**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.02049**	0.32940	**0.02376**	2.50740	**0.06264**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.02386**	0.32940	**0.02810**	2.50740	**0.06964**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.02049**	0.32940	**0.02376**	2.50740	**0.06264**
	(!D * !RESET_B * !Q)	0.01860	**0.01175**	0.32940	**0.01526**	2.50740	**0.05439**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.01966**	0.32940	**0.02372**	2.50740	**0.06435**
	(!D * RESET_B * !Q)	0.01860	**0.02386**	0.32940	**0.02810**	2.50740	**0.06964**
	(!D * !RESET_B * !Q)	0.01860	**0.02392**	0.32940	**0.02824**	2.50740	**0.06988**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**-0.00010**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00010**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	**(D * GATE_N * !Q)**	0.01860	**-0.00010**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	**(D * GATE_N * !Q)**	0.01860	**0.00010**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	GATE_N	RESET_B	Q	Q_N
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GATE_N	RESET_B	Q	Q_N
sg13g2_dllr_1	0.00228	0.00245	0.00324	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	1299.27000	1464.85000	1537.41000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.13832**	0.32940	0.06480	**0.32332**	2.50740	0.30000	**0.87620**
	GATE_N->Q (FR)	0.01860	0.00100	**0.15243**	0.32940	0.06480	**0.35544**	2.50740	0.30000	**0.97997**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.11694**	0.32940	0.06480	**0.28065**	2.50740	0.30000	**0.75762**
	GATE_N->Q (FF)	0.01860	0.00100	**0.11323**	0.32940	0.06480	**0.29552**	2.50740	0.30000	**0.84652**
	RESET_B->Q (FF)	0.01860	0.00100	**0.05004**	0.32940	0.06480	**0.24187**	2.50740	0.30000	**0.75971**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.14267**	0.32940	0.06480	**0.32058**	2.50740	0.30000	**0.88678**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.13907**	0.32940	0.06480	**0.33552**	2.50740	0.30000	**0.97550**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07638**	0.32940	0.06480	**0.27443**	2.50740	0.30000	**0.87127**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.16680**	0.32940	0.06480	**0.31740**	2.50740	0.30000	**0.78015**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.18074**	0.32940	0.06480	**0.34966**	2.50740	0.30000	**0.88416**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.05135**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.09150**
	setup	GATE_N (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.07286**	2.50740	2.50740	**0.10035**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.23908**
	setup	GATE_N (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.27744**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**-0.02159**	2.50740	2.50740	**0.00590**
	removal	GATE_N (R)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.02968**	2.50740	2.50740	**0.00000**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.13107**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.01513**	0.32940	0.06480	**0.08789**	2.50740	0.30000	**0.35245**
	GATE_N	0.01860	0.00100	**0.02892**	0.32940	0.06480	**0.10164**	2.50740	0.30000	**0.36612**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00800**	0.32940	0.06480	**0.07245**	2.50740	0.30000	**0.33571**
	GATE_N	0.01860	0.00100	**0.02623**	0.32940	0.06480	**0.09915**	2.50740	0.30000	**0.36625**
	RESET_B	0.01860	0.00100	**0.03764**	0.32940	0.06480	**0.11329**	2.50740	0.30000	**0.41129**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00806**	0.32940	0.06480	**0.07263**	2.50740	0.30000	**0.33636**
	GATE_N	0.01860	0.00100	**0.04622**	0.32940	0.06480	**0.12341**	2.50740	0.30000	**0.43124**
	RESET_B	0.01860	0.00100	**0.03748**	0.32940	0.06480	**0.11310**	2.50740	0.30000	**0.41135**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.01514**	0.32940	0.06480	**0.08779**	2.50740	0.30000	**0.35106**
	GATE_N	0.01860	0.00100	**0.02892**	0.32940	0.06480	**0.10145**	2.50740	0.30000	**0.36567**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.02821**	0.32940	**0.03101**	2.50740	**0.06344**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.03353**	0.32940	**0.04511**	2.50740	**0.07915**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	**(GATE_N * RESET_B * Q)**	0.01860	**0.00478**	0.32940	**0.00764**	2.50740	**0.03956**
	!RESET_B	0.01860	**0.02821**	0.32940	**0.03101**	2.50740	**0.06344**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	**(GATE_N * RESET_B * Q)**	0.01860	**0.00491**	0.32940	**0.00825**	2.50740	**0.04086**
	!RESET_B	0.01860	**0.03353**	0.32940	**0.04511**	2.50740	**0.07915**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.02220**	0.32940	**0.02747**	2.50740	**0.06684**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01996**	0.32940	**0.02403**	2.50740	**0.06460**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.02061**	0.32940	**0.02388**	2.50740	**0.06261**
	(!D * RESET_B * !Q)	0.01860	**0.02220**	0.32940	**0.02747**	2.50740	**0.06684**
	(!D * !RESET_B * !Q)	0.01860	**0.02226**	0.32940	**0.02755**	2.50740	**0.06691**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01996**	0.32940	**0.02403**	2.50740	**0.06460**
	(!D * !RESET_B * !Q)	0.01860	**0.01331**	0.32940	**0.01743**	2.50740	**0.05848**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**-0.00012**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.00012**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00016**	0.32940	**0.00016**	2.50740	**0.00016**
	(!D * GATE_N * !Q)	0.01860	**-0.00012**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00028**	0.32940	**0.00013**	2.50740	**0.00008**
	(!D * GATE_N * !Q)	0.01860	**0.00012**	0.32940	**0.00000**	2.50740	**0.00000**

DLYGATE4SD1

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	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00158	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	435.56300	473.12400	510.68500

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.07972**	0.32940	0.06480	**0.25411**	2.50740	0.30000	**0.74468**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.09213**	0.32940	0.06480	**0.27407**	2.50740	0.30000	**0.85476**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01970**	0.32940	0.06480	**0.02190**	2.50740	0.30000	**0.04176**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01890**	0.32940	0.06480	**0.02147**	2.50740	0.30000	**0.04222**

DLYGATE4SD2

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	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00157	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	515.77000	553.33000	590.89000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.11935**	0.32940	0.06480	**0.30521**	2.50740	0.30000	**0.82696**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.13362**	0.32940	0.06480	**0.33298**	2.50740	0.30000	**0.93684**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.02363**	0.32940	0.06480	**0.02548**	2.50740	0.30000	**0.04408**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.02294**	0.32940	0.06480	**0.02490**	2.50740	0.30000	**0.04493**

DLYGATE4SD3

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	0.00157	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	1214.88000	1252.42000	1289.95000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.25699**	0.32940	0.06480	**0.46949**	2.50740	0.30000	**1.05625**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.26552**	0.32940	0.06480	**0.49959**	2.50740	0.30000	**1.16562**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.03463**	0.32940	0.06480	**0.03528**	2.50740	0.30000	**0.05240**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.03428**	0.32940	0.06480	**0.03496**	2.50740	0.30000	**0.05292**

EBUFNx

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_2	18.14400
sg13g2_ebufn_4	27.21600
sg13g2_ebufn_8	45.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_2	0.00277	0.00669	0.60000
sg13g2_ebufn_4	0.00312	0.01090	1.20000
sg13g2_ebufn_8	0.00609	0.01821	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_2	331.81700	683.06000	1042.44000
sg13g2_ebufn_4	416.03800	1118.49000	1944.93000
sg13g2_ebufn_8	590.33500	2069.17000	3795.96000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00597	**0.04528**	0.32940	0.13457	**0.36535**	2.50740	0.60497	**1.43769**
	TE_B->Z (RR)	0.01860	0.00597	**0.03443**	0.32940	0.13457	**0.07213**	2.50740	0.60497	**0.13806**
	TE_B->Z (FR)	0.01860	0.00597	**0.02533**	0.32940	0.13457	**0.36918**	2.50740	0.60497	**1.83757**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01080	**0.05341**	0.32940	0.26900	**0.39380**	2.50740	1.20980	**1.49867**
	TE_B->Z (RR)	0.01860	0.01080	**0.04044**	0.32940	0.26900	**0.08930**	2.50740	1.20980	**0.17000**
	TE_B->Z (FR)	0.01860	0.01080	**0.02504**	0.32940	0.26900	**0.37268**	2.50740	1.20980	**1.84856**
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.02030	**0.05214**	0.32940	0.53770	**0.39374**	2.50740	2.41930	**1.49979**
	TE_B->Z (RR)	0.01860	0.02030	**0.05210**	0.32940	0.53770	**0.12297**	2.50740	2.41930	**0.24540**
	TE_B->Z (FR)	0.01860	0.02030	**0.02548**	0.32940	0.53770	**0.37454**	2.50740	2.41930	**1.85263**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00841	**0.04662**	0.32940	0.13701	**0.29763**	2.50740	0.60741	**1.09798**
	TE_B->Z (RF)	0.01860	0.00841	**0.02073**	0.32940	0.13701	**0.05495**	2.50740	0.60741	**0.33811**
	TE_B->Z (FF)	0.01860	0.00841	**0.04100**	0.32940	0.13701	**0.31142**	2.50740	0.60741	**1.21084**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01553	**0.06012**	0.32940	0.27373	**0.33403**	2.50740	1.21453	**1.17517**
	TE_B->Z (RF)	0.01860	0.01553	**0.02185**	0.32940	0.27373	**0.05571**	2.50740	1.21453	**0.34091**
	TE_B->Z (FF)	0.01860	0.01553	**0.04828**	0.32940	0.27373	**0.33913**	2.50740	1.21453	**1.27366**
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02961	**0.05867**	0.32940	0.54701	**0.33285**	2.50740	2.42861	**1.17698**
	TE_B->Z (RF)	0.01860	0.02961	**0.02319**	0.32940	0.54701	**0.05701**	2.50740	2.42861	**0.34469**
	TE_B->Z (FF)	0.01860	0.02961	**0.06334**	0.32940	0.54701	**0.38148**	2.50740	2.42861	**1.36730**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00597	**0.01530**	0.32940	0.13457	**0.01604**	2.50740	0.60497	**0.01526**
	TE_B	0.01860	0.00597	**0.00281**	0.32940	0.13457	**0.00266**	2.50740	0.60497	**0.00229**
sg13g2_ebufn_4	A	0.01860	0.01080	**0.02971**	0.32940	0.26900	**0.03219**	2.50740	1.20980	**0.03265**
	TE_B	0.01860	0.01080	**0.00526**	0.32940	0.26900	**0.00512**	2.50740	1.20980	**0.00316**
sg13g2_ebufn_8	A	0.01860	0.02030	**0.05918**	0.32940	0.53770	**0.06551**	2.50740	2.41930	**0.07013**
	TE_B	0.01860	0.02030	**0.01003**	0.32940	0.53770	**0.00965**	2.50740	2.41930	**0.00718**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00841	**0.01336**	0.32940	0.13701	**0.01417**	2.50740	0.60741	**0.01250**
	TE_B	0.01860	0.00841	**0.00251**	0.32940	0.13701	**0.01630**	2.50740	0.60741	**0.07008**
sg13g2_ebufn_4	A	0.01860	0.01553	**0.02753**	0.32940	0.27373	**0.02816**	2.50740	1.21453	**0.02516**
	TE_B	0.01860	0.01553	**0.00479**	0.32940	0.27373	**0.03254**	2.50740	1.21453	**0.14134**
sg13g2_ebufn_8	A	0.01860	0.02961	**0.05525**	0.32940	0.54701	**0.05604**	2.50740	2.42861	**0.05192**
	TE_B	0.01860	0.02961	**0.00883**	0.32940	0.54701	**0.06317**	2.50740	2.42861	**0.28212**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00512**	0.32940	**0.00879**	2.50740	**0.04729**
sg13g2_ebufn_4	0.01860	**0.00867**	0.32940	**0.01239**	2.50740	**0.05575**
sg13g2_ebufn_8	0.01860	**0.01615**	0.32940	**0.02382**	2.50740	**0.11086**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00452**	0.32940	**0.00873**	2.50740	**0.04815**
sg13g2_ebufn_4	0.01860	**0.00721**	0.32940	**0.01159**	2.50740	**0.05634**
sg13g2_ebufn_8	0.01860	**0.01351**	0.32940	**0.02244**	2.50740	**0.11219**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00028**	0.32940	**0.00328**	2.50740	**0.04132**
sg13g2_ebufn_4	0.01860	**-0.00105**	0.32940	**0.00139**	2.50740	**0.04402**
sg13g2_ebufn_8	0.01860	**-0.00492**	0.32940	**-0.00373**	2.50740	**0.03636**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.02151**	0.32940	**0.02572**	2.50740	**0.06465**
sg13g2_ebufn_4	0.01860	**0.04175**	0.32940	**0.04612**	2.50740	**0.09011**
sg13g2_ebufn_8	0.01860	**0.08146**	0.32940	**0.08470**	2.50740	**0.12661**

EINVNx

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_2	16.32960
sg13g2_einvn_4	23.58720
sg13g2_einvn_8	39.91680

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_2	0.00420	0.00512	0.60000
sg13g2_einvn_4	0.00819	0.00955	1.20000
sg13g2_einvn_8	0.01619	0.01630	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_2	633.83500	781.67500	929.51500
sg13g2_einvn_4	1259.66000	1555.34000	1851.03000
sg13g2_einvn_8	2425.43000	3016.79000	3608.16000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00600	**0.02000**	0.32940	0.13460	**0.40579**	2.50740	0.60500	**2.14937**
	TE_B->Z (RR)	0.01860	0.00600	**0.03791**	0.32940	0.13460	**0.08577**	2.50740	0.60500	**0.16815**
	TE_B->Z (FR)	0.01860	0.00600	**0.02441**	0.32940	0.13460	**0.36946**	2.50740	0.60500	**1.84298**
sg13g2_einvn_4	A->Z (FR)	0.01860	0.01086	**0.01855**	0.32940	0.26906	**0.40621**	2.50740	1.20986	**2.15293**
	TE_B->Z (RR)	0.01860	0.01086	**0.03909**	0.32940	0.26906	**0.08833**	2.50740	1.20986	**0.17598**
	TE_B->Z (FR)	0.01860	0.01086	**0.02357**	0.32940	0.26906	**0.36968**	2.50740	1.20986	**1.84158**
sg13g2_einvn_8	A->Z (FR)	0.01860	0.02052	**0.01793**	0.32940	0.53792	**0.40772**	2.50740	2.41952	**2.15940**
	TE_B->Z (RR)	0.01860	0.02052	**0.05083**	0.32940	0.53792	**0.12208**	2.50740	2.41952	**0.24621**
	TE_B->Z (FR)	0.01860	0.02052	**0.02441**	0.32940	0.53792	**0.37197**	2.50740	2.41952	**1.84573**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00844	**0.01724**	0.32940	0.13704	**0.32951**	2.50740	0.60744	**1.77200**
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01554	**0.01602**	0.32940	0.27374	**0.32941**	2.50740	1.21454	**1.77231**
sg13g2_einvn_8	A->Z (RF)	0.01860	0.02994	**0.01556**	0.32940	0.54734	**0.33111**	2.50740	2.42894	**1.78181**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00600	**0.00403**	0.32940	0.13460	**0.00722**	2.50740	0.60500	**0.02911**
	TE_B	0.01860	0.00600	**0.01241**	0.32940	0.13460	**0.01211**	2.50740	0.60500	**0.01094**
sg13g2_einvn_4	A	0.01860	0.01086	**0.00802**	0.32940	0.26906	**0.01471**	2.50740	1.20986	**0.05910**
	TE_B	0.01860	0.01086	**0.02510**	0.32940	0.26906	**0.02428**	2.50740	1.20986	**0.02150**
sg13g2_einvn_8	A	0.01860	0.02052	**0.01599**	0.32940	0.53792	**0.02944**	2.50740	2.41952	**0.11556**
	TE_B	0.01860	0.02052	**0.05302**	0.32940	0.53792	**0.05061**	2.50740	2.41952	**0.04517**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00844	**0.00417**	0.32940	0.13704	**0.00702**	2.50740	0.60744	**0.02637**
sg13g2_einvn_4	A	0.01860	0.01554	**0.00792**	0.32940	0.27374	**0.01366**	2.50740	1.21454	**0.05286**
sg13g2_einvn_8	A	0.01860	0.02994	**0.01543**	0.32940	0.54734	**0.02707**	2.50740	2.42894	**0.10511**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_4	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_8	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_4	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_8	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**-0.00666**	0.32940	**-0.00516**	2.50740	**0.01792**
sg13g2_einvn_4	0.01860	**-0.01428**	0.32940	**-0.01176**	2.50740	**0.03100**
sg13g2_einvn_8	0.01860	**-0.03239**	0.32940	**-0.03115**	2.50740	**0.00913**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**0.01108**	0.32940	**0.01359**	2.50740	**0.03793**
sg13g2_einvn_4	0.01860	**0.02199**	0.32940	**0.02683**	2.50740	**0.07207**
sg13g2_einvn_8	0.01860	**0.03853**	0.32940	**0.04394**	2.50740	**0.08779**

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_2	3.62880
sg13g2_fill_4	7.25760
sg13g2_fill_8	14.51520

Pin Capacitance Information
Leakage Information

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

INVx

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_1	5.44320
sg13g2_inv_16	34.47360
sg13g2_inv_2	7.25760
sg13g2_inv_4	10.88640
sg13g2_inv_8	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_1	0.00298	0.30000
sg13g2_inv_16	0.04506	4.80000
sg13g2_inv_2	0.00589	0.60000
sg13g2_inv_4	0.01166	1.20000
sg13g2_inv_8	0.02333	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_1	93.89730	167.86600	241.83500
sg13g2_inv_16	1502.36000	2685.08000	3867.81000
sg13g2_inv_2	187.80500	335.65300	483.50100
sg13g2_inv_4	375.59100	671.27300	966.95500
sg13g2_inv_8	751.17700	1342.58000	1933.98000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.01514**	0.32940	0.06480	**0.27357**	2.50740	0.30000	**1.50884**
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.01450**	0.32940	1.03680	**0.27758**	2.50740	4.80000	**1.51795**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01300**	0.32940	0.12960	**0.27323**	2.50740	0.60000	**1.50799**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01204**	0.32940	0.25920	**0.27353**	2.50740	1.20000	**1.51218**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01173**	0.32940	0.51840	**0.27379**	2.50740	2.40000	**1.51227**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01437**	0.32940	0.06480	**0.24654**	2.50740	0.30000	**1.36822**
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.01428**	0.32940	1.03680	**0.25095**	2.50740	4.80000	**1.37769**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01232**	0.32940	0.12960	**0.24616**	2.50740	0.60000	**1.36793**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01145**	0.32940	0.25920	**0.24738**	2.50740	1.20000	**1.37490**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01121**	0.32940	0.51840	**0.24759**	2.50740	2.40000	**1.37549**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00230**	0.32940	0.06480	**0.00405**	2.50740	0.30000	**0.02049**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.03326**	0.32940	1.03680	**0.06126**	2.50740	4.80000	**0.32500**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00410**	0.32940	0.12960	**0.00759**	2.50740	0.60000	**0.04029**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00817**	0.32940	0.25920	**0.01552**	2.50740	1.20000	**0.08162**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01629**	0.32940	0.51840	**0.03077**	2.50740	2.40000	**0.16279**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00236**	0.32940	0.06480	**0.00392**	2.50740	0.30000	**0.01746**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02905**	0.32940	1.03680	**0.05646**	2.50740	4.80000	**0.26971**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00371**	0.32940	0.12960	**0.00714**	2.50740	0.60000	**0.03378**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00711**	0.32940	0.25920	**0.01399**	2.50740	1.20000	**0.06777**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01412**	0.32940	0.51840	**0.02833**	2.50740	2.40000	**0.13453**

LGCP

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

Truth Table

INPUT		OUTPUT
CLK	GATE	GCLK
0	x	0
1	x	GCLK

Footprint

Cell Name	Area
sg13g2_lgcp_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CLK	GATE	GCLK
sg13g2_lgcp_1	0.00523	0.00245	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	1091.66000	1127.38000	1196.16000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.05052**	0.32940	0.06480	**0.22872**	2.50740	0.30000	**0.81882**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.04335**	0.32940	0.06480	**0.21686**	2.50740	0.30000	**0.75711**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.15991**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06699**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02512**	1.26300	1.26300	**-0.12007**	2.50740	2.50740	**-0.20331**
	setup	**CLK (R)**	0.01860	0.01860	**0.05247**	1.26300	1.26300	**0.16581**	2.50740	2.50740	**0.25574**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01315**	1.26300	1.26300	**-0.02361**	2.50740	2.50740	**-0.03378**
	setup	**CLK (R)**	0.01860	0.01860	**0.03582**	1.26300	1.26300	**0.05785**	2.50740	2.50740	**0.08032**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.01450**	0.32940	0.06480	**0.01630**	2.50740	0.30000	**0.04655**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.00891**	0.32940	0.06480	**0.01277**	2.50740	0.30000	**0.04432**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.01034**	0.32940	**0.01382**	2.50740	**0.05294**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.01292**	0.32940	**0.01691**	2.50740	**0.05801**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.03051**	0.32940	**0.03333**	2.50740	**0.06612**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.02580**	0.32940	**0.04766**	2.50740	**0.08173**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.03051**	0.32940	**0.03333**	2.50740	**0.06612**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.02580**	0.32940	**0.04766**	2.50740	**0.08173**

MUX2x

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
sg13g2_mux2_2	19.95840

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_1	0.00293	0.00304	0.00541	0.30000
sg13g2_mux2_2	0.00291	0.00301	0.00540	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	622.29900	726.31000	861.44900
sg13g2_mux2_2	755.51600	894.09800	1001.55000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.05027**	0.32940	0.06480	**0.24284**	2.50740	0.30000	**0.82842**
	A1->X (RR)	0.01860	0.00100	**0.05068**	0.32940	0.06480	**0.24509**	2.50740	0.30000	**0.83444**
	S->X (-R)	0.01860	0.00100	**0.07886**	0.32940	0.06480	**0.26352**	2.50740	0.30000	**0.83057**
sg13g2_mux2_2	A0->X (RR)	0.01860	0.00100	**0.05774**	0.32940	0.12960	**0.26844**	2.50740	0.60000	**0.88331**
	A1->X (RR)	0.01860	0.00100	**0.05798**	0.32940	0.12960	**0.27041**	2.50740	0.60000	**0.88726**
	S->X (-R)	0.01860	0.00100	**0.06290**	0.32940	0.12960	**0.26322**	2.50740	0.60000	**0.87277**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.06540**	0.32940	0.06480	**0.26379**	2.50740	0.30000	**0.87848**
	A1->X (FF)	0.01860	0.00100	**0.06520**	0.32940	0.06480	**0.26397**	2.50740	0.30000	**0.88216**
	S->X (-F)	0.01860	0.00100	**0.07375**	0.32940	0.06480	**0.24877**	2.50740	0.30000	**0.82670**
sg13g2_mux2_2	A0->X (FF)	0.01860	0.00100	**0.07973**	0.32940	0.12960	**0.29839**	2.50740	0.60000	**0.94018**
	A1->X (FF)	0.01860	0.00100	**0.07951**	0.32940	0.12960	**0.29849**	2.50740	0.60000	**0.94149**
	S->X (-F)	0.01860	0.00100	**0.08808**	0.32940	0.12960	**0.28011**	2.50740	0.60000	**0.87981**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.05518**	0.32940	0.06480	**0.24064**	2.50740	0.30000	**0.82574**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.07886**	0.32940	0.06480	**0.26352**	2.50740	0.30000	**0.83057**
sg13g2_mux2_2	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.06290**	0.32940	0.12960	**0.26322**	2.50740	0.60000	**0.87277**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.08674**	0.32940	0.12960	**0.27795**	2.50740	0.60000	**0.84863**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.07375**	0.32940	0.06480	**0.24877**	2.50740	0.30000	**0.82670**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.09489**	0.32940	0.06480	**0.25954**	2.50740	0.30000	**0.72912**
sg13g2_mux2_2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.08808**	0.32940	0.12960	**0.28011**	2.50740	0.60000	**0.87981**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.10927**	0.32940	0.12960	**0.28406**	2.50740	0.60000	**0.75532**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01394**	0.32940	0.06480	**0.01669**	2.50740	0.30000	**0.04895**
	A1	0.01860	0.00100	**0.01408**	0.32940	0.06480	**0.01687**	2.50740	0.30000	**0.04908**
	S	0.01860	0.00100	**0.01525**	0.32940	0.06480	**0.01745**	2.50740	0.30000	**0.04874**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.02075**	0.32940	0.12960	**0.02297**	2.50740	0.60000	**0.05495**
	A1	0.01860	0.00100	**0.02092**	0.32940	0.12960	**0.02324**	2.50740	0.60000	**0.05483**
	S	0.01860	0.00100	**0.02183**	0.32940	0.12960	**0.02386**	2.50740	0.60000	**0.05464**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01403**	0.32940	0.06480	**0.01726**	2.50740	0.30000	**0.05007**
	A1	0.01860	0.00100	**0.01393**	0.32940	0.06480	**0.01714**	2.50740	0.30000	**0.05048**
	S	0.01860	0.00100	**0.01438**	0.32940	0.06480	**0.01665**	2.50740	0.30000	**0.04946**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.02188**	0.32940	0.12960	**0.02355**	2.50740	0.60000	**0.05576**
	A1	0.01860	0.00100	**0.02175**	0.32940	0.12960	**0.02346**	2.50740	0.60000	**0.05651**
	S	0.01860	0.00100	**0.02174**	0.32940	0.12960	**0.02296**	2.50740	0.60000	**0.05519**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01491**	0.32940	0.06480	**0.01516**	2.50740	0.30000	**0.01587**
	S	(!A0 * A1)	0.01860	0.00100	**0.01525**	0.32940	0.06480	**0.01745**	2.50740	0.30000	**0.04874**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.02149**	0.32940	0.12960	**0.02183**	2.50740	0.60000	**0.02236**
	S	(!A0 * A1)	0.01860	0.00100	**0.02183**	0.32940	0.12960	**0.02386**	2.50740	0.60000	**0.05464**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01600**	0.32940	0.06480	**0.01644**	2.50740	0.30000	**0.01666**
	S	(!A0 * A1)	0.01860	0.00100	**0.01438**	0.32940	0.06480	**0.01665**	2.50740	0.30000	**0.04946**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.02345**	0.32940	0.12960	**0.02305**	2.50740	0.60000	**0.02238**
	S	(!A0 * A1)	0.01860	0.00100	**0.02174**	0.32940	0.12960	**0.02296**	2.50740	0.60000	**0.05519**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00543**	0.32940	**0.00806**	2.50740	**0.03972**
sg13g2_mux2_2	0.01860	**0.00543**	0.32940	**0.00801**	2.50740	**0.03971**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00615**	0.32940	**0.00929**	2.50740	**0.04173**
sg13g2_mux2_2	0.01860	**0.00617**	0.32940	**0.00930**	2.50740	**0.04174**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	(A0 * A1)	0.01860	**0.00543**	0.32940	**0.00806**	2.50740	**0.03972**
	(!A0 * !A1)	0.01860	**0.00502**	0.32940	**0.00772**	2.50740	**0.03930**
sg13g2_mux2_2	(A0 * A1)	0.01860	**0.00543**	0.32940	**0.00801**	2.50740	**0.03971**
	(!A0 * !A1)	0.01860	**0.00500**	0.32940	**0.00772**	2.50740	**0.03931**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	(A0 * A1)	0.01860	**0.00583**	0.32940	**0.00896**	2.50740	**0.04127**
	(!A0 * !A1)	0.01860	**0.00615**	0.32940	**0.00929**	2.50740	**0.04173**
sg13g2_mux2_2	(A0 * A1)	0.01860	**0.00584**	0.32940	**0.00897**	2.50740	**0.04128**
	(!A0 * !A1)	0.01860	**0.00617**	0.32940	**0.00930**	2.50740	**0.04174**

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	0.00297	0.00295	0.00296	0.00303	0.00855	0.00523	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	863.95400	1307.19000	1573.90000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.08952**	0.32940	0.06480	**0.29797**	2.50740	0.30000	**0.95424**
	A1->X (RR)	0.01860	0.00100	**0.08780**	0.32940	0.06480	**0.29681**	2.50740	0.30000	**0.95219**
	A2->X (RR)	0.01860	0.00100	**0.09321**	0.32940	0.06480	**0.30474**	2.50740	0.30000	**0.96753**
	A3->X (RR)	0.01860	0.00100	**0.09068**	0.32940	0.06480	**0.30369**	2.50740	0.30000	**0.96586**
	S0->X (-R)	0.01860	0.00100	**0.07963**	0.32940	0.06480	**0.29902**	2.50740	0.30000	**0.95679**
	S1->X (-R)	0.01860	0.00100	**0.04777**	0.32940	0.06480	**0.24155**	2.50740	0.30000	**0.83572**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.10496**	0.32940	0.06480	**0.29990**	2.50740	0.30000	**0.87633**
	A1->X (FF)	0.01860	0.00100	**0.10673**	0.32940	0.06480	**0.30029**	2.50740	0.30000	**0.87685**
	A2->X (FF)	0.01860	0.00100	**0.11160**	0.32940	0.06480	**0.30976**	2.50740	0.30000	**0.89312**
	A3->X (FF)	0.01860	0.00100	**0.11237**	0.32940	0.06480	**0.30946**	2.50740	0.30000	**0.89247**
	S0->X (-F)	0.01860	0.00100	**0.09686**	0.32940	0.06480	**0.31056**	2.50740	0.30000	**0.92483**
	S1->X (-F)	0.01860	0.00100	**0.05696**	0.32940	0.06480	**0.24536**	2.50740	0.30000	**0.82826**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.07963**	0.32940	0.06480	**0.29902**	2.50740	0.30000	**0.95679**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.07545**	0.32940	0.06480	**0.28934**	2.50740	0.30000	**0.93800**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.11668**	0.32940	0.06480	**0.32438**	2.50740	0.30000	**0.93314**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.11352**	0.32940	0.06480	**0.31931**	2.50740	0.30000	**0.92510**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.04777**	0.32940	0.06480	**0.24155**	2.50740	0.30000	**0.83572**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.04768**	0.32940	0.06480	**0.24156**	2.50740	0.30000	**0.83523**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.06326**	0.32940	0.06480	**0.25609**	2.50740	0.30000	**0.83078**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.06313**	0.32940	0.06480	**0.25609**	2.50740	0.30000	**0.83069**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.09686**	0.32940	0.06480	**0.31056**	2.50740	0.30000	**0.92483**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.08827**	0.32940	0.06480	**0.29697**	2.50740	0.30000	**0.90182**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.12973**	0.32940	0.06480	**0.32162**	2.50740	0.30000	**0.83802**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.12285**	0.32940	0.06480	**0.31299**	2.50740	0.30000	**0.82688**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.05696**	0.32940	0.06480	**0.24536**	2.50740	0.30000	**0.82826**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.05683**	0.32940	0.06480	**0.24533**	2.50740	0.30000	**0.82732**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.06993**	0.32940	0.06480	**0.25073**	2.50740	0.30000	**0.74016**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.07005**	0.32940	0.06480	**0.25077**	2.50740	0.30000	**0.74079**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0	0.01860	0.00100	**0.01922**	0.32940	0.06480	**0.02041**	2.50740	0.30000	**0.04827**
	A1	0.01860	0.00100	**0.02849**	0.32940	0.06480	**0.02950**	2.50740	0.30000	**0.05732**
	A2	0.01860	0.00100	**0.02939**	0.32940	0.06480	**0.03044**	2.50740	0.30000	**0.05796**
	A3	0.01860	0.00100	**0.02042**	0.32940	0.06480	**0.02164**	2.50740	0.30000	**0.04926**
	S0	0.01860	0.00100	**0.02297**	0.32940	0.06480	**0.01886**	2.50740	0.30000	**-0.00308**
	S1	0.01860	0.00100	**0.01141**	0.32940	0.06480	**0.01376**	2.50740	0.30000	**0.03386**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0	0.01860	0.00100	**0.02916**	0.32940	0.06480	**0.03026**	2.50740	0.30000	**0.05947**
	A1	0.01860	0.00100	**0.02077**	0.32940	0.06480	**0.02183**	2.50740	0.30000	**0.05119**
	A2	0.01860	0.00100	**0.03063**	0.32940	0.06480	**0.03161**	2.50740	0.30000	**0.06089**
	A3	0.01860	0.00100	**0.02996**	0.32940	0.06480	**0.03099**	2.50740	0.30000	**0.06003**
	S0	0.01860	0.00100	**0.01666**	0.32940	0.06480	**0.01939**	2.50740	0.30000	**0.04956**
	S1	0.01860	0.00100	**0.01299**	0.32940	0.06480	**0.01551**	2.50740	0.30000	**0.03413**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.02297**	0.32940	0.06480	**0.01886**	2.50740	0.30000	**-0.00308**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02291**	0.32940	0.06480	**0.01881**	2.50740	0.30000	**-0.00333**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01065**	0.32940	0.06480	**0.00964**	2.50740	0.30000	**0.00690**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01522**	0.32940	0.06480	**0.01709**	2.50740	0.30000	**0.04701**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01245**	0.32940	0.06480	**0.01485**	2.50740	0.30000	**0.03675**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01141**	0.32940	0.06480	**0.01376**	2.50740	0.30000	**0.03386**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00823**	0.32940	0.06480	**0.01072**	2.50740	0.30000	**0.03616**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00720**	0.32940	0.06480	**0.00972**	2.50740	0.30000	**0.03423**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.03417**	0.32940	0.06480	**0.03215**	2.50740	0.30000	**0.00308**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.03421**	0.32940	0.06480	**0.03263**	2.50740	0.30000	**0.00333**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01640**	0.32940	0.06480	**0.01866**	2.50740	0.30000	**0.04848**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01666**	0.32940	0.06480	**0.01939**	2.50740	0.30000	**0.04956**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01299**	0.32940	0.06480	**0.01551**	2.50740	0.30000	**0.03413**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01399**	0.32940	0.06480	**0.01651**	2.50740	0.30000	**0.03591**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00768**	0.32940	0.06480	**0.01034**	2.50740	0.30000	**0.03658**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00777**	0.32940	0.06480	**0.01053**	2.50740	0.30000	**0.03838**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.01170**	0.32940	**0.01799**	2.50740	**0.08711**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.01566**	0.32940	**0.02312**	2.50740	**0.09396**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.01084**	0.32940	**0.01705**	2.50740	**0.08622**
	(A0 * A1 * !S1)	0.01860	**0.01176**	0.32940	**0.01759**	2.50740	**0.08637**
	(!A2 * !A3 * S1)	0.01860	**0.01170**	0.32940	**0.01799**	2.50740	**0.08711**
	(!A0 * !A1 * !S1)	0.01860	**0.01308**	0.32940	**0.01904**	2.50740	**0.08856**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.01605**	0.32940	**0.02364**	2.50740	**0.09491**
	(A0 * A1 * !S1)	0.01860	**0.01868**	0.32940	**0.02642**	2.50740	**0.09726**
	(!A2 * !A3 * S1)	0.01860	**0.01566**	0.32940	**0.02312**	2.50740	**0.09396**
	(!A0 * !A1 * !S1)	0.01860	**0.01115**	0.32940	**0.01823**	2.50740	**0.08885**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00579**	0.32940	**0.00954**	2.50740	**0.04864**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00647**	0.32940	**0.01100**	2.50740	**0.05053**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00580**	0.32940	**0.00955**	2.50740	**0.04823**
	(A0 * A2 * !S0)	0.01860	**0.00579**	0.32940	**0.00954**	2.50740	**0.04864**
	(!A1 * !A3 * S0)	0.01860	**0.00642**	0.32940	**0.01026**	2.50740	**0.04887**
	(!A0 * !A2 * !S0)	0.01860	**0.00644**	0.32940	**0.01026**	2.50740	**0.04881**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00650**	0.32940	**0.01090**	2.50740	**0.05170**
	(A0 * A2 * !S0)	0.01860	**0.00647**	0.32940	**0.01100**	2.50740	**0.05053**
	(!A1 * !A3 * S0)	0.01860	**0.00633**	0.32940	**0.01076**	2.50740	**0.05037**
	(!A0 * !A2 * !S0)	0.01860	**0.00636**	0.32940	**0.01068**	2.50740	**0.05122**

NAND2Bx

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
sg13g2_nand2b_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00238	0.00318	0.30000
sg13g2_nand2b_2	0.00232	0.00582	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	161.31700	357.10700	551.87000
sg13g2_nand2b_2	360.86900	583.52000	1016.76000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.03734**	0.32940	0.06480	**0.21755**	2.50740	0.30000	**0.80981**
	B->Y (FR)	0.01860	0.00100	**0.01960**	0.32940	0.06480	**0.27896**	2.50740	0.30000	**1.51223**
sg13g2_nand2b_2	A_N->Y (RR)	0.01860	0.00100	**0.04887**	0.32940	0.12960	**0.24671**	2.50740	0.60000	**0.86610**
	B->Y (FR)	0.01860	0.00100	**0.01489**	0.32940	0.12960	**0.27457**	2.50740	0.60000	**1.50375**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.04386**	0.32940	0.06480	**0.27576**	2.50740	0.30000	**1.04790**
	B->Y (RF)	0.01860	0.00100	**0.02583**	0.32940	0.06480	**0.30464**	2.50740	0.30000	**1.59193**
sg13g2_nand2b_2	A_N->Y (FF)	0.01860	0.00100	**0.05771**	0.32940	0.12960	**0.31917**	2.50740	0.60000	**1.14956**
	B->Y (RF)	0.01860	0.00100	**0.01939**	0.32940	0.12960	**0.33775**	2.50740	0.60000	**1.81448**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00321**	0.32940	0.06480	**0.00360**	2.50740	0.30000	**0.00258**
	B	0.01860	0.00100	**0.00306**	0.32940	0.06480	**0.00438**	2.50740	0.30000	**0.01900**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.00633**	0.32940	0.12960	**0.00678**	2.50740	0.60000	**0.00651**
	B	0.01860	0.00100	**0.00447**	0.32940	0.12960	**0.00759**	2.50740	0.60000	**0.03513**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00649**	0.32940	0.06480	**0.00669**	2.50740	0.30000	**0.00567**
	B	0.01860	0.00100	**0.00634**	0.32940	0.06480	**0.00719**	2.50740	0.30000	**0.01855**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.01291**	0.32940	0.12960	**0.01376**	2.50740	0.60000	**0.01422**
	B	0.01860	0.00100	**0.00663**	0.32940	0.12960	**0.00910**	2.50740	0.60000	**0.03283**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00606**	0.32940	**0.00916**	2.50740	**0.04113**
sg13g2_nand2b_2	0.01860	**0.00997**	0.32940	**0.01229**	2.50740	**0.04261**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00338**	0.32940	**0.00675**	2.50740	**0.03941**
sg13g2_nand2b_2	0.01860	**0.00957**	0.32940	**0.01233**	2.50740	**0.04365**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00606**	0.32940	**0.00916**	2.50740	**0.04113**
sg13g2_nand2b_2	**!B**	0.01860	**0.00997**	0.32940	**0.01229**	2.50740	**0.04261**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00338**	0.32940	**0.00675**	2.50740	**0.03941**
sg13g2_nand2b_2	**!B**	0.01860	**0.00957**	0.32940	**0.01233**	2.50740	**0.04365**

NAND2x

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
sg13g2_nand2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_1	0.00299	0.00313	0.30000
sg13g2_nand2_2	0.00579	0.00600	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	92.89230	234.44300	483.43600
sg13g2_nand2_2	184.04200	460.91400	948.39100

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.01680**	0.32940	0.06480	**0.27476**	2.50740	0.30000	**1.50446**
	B->Y (FR)	0.01860	0.00100	**0.01998**	0.32940	0.06480	**0.27849**	2.50740	0.30000	**1.51006**
sg13g2_nand2_2	A->Y (FR)	0.01860	0.00100	**0.01505**	0.32940	0.12960	**0.27487**	2.50740	0.60000	**1.50555**
	B->Y (FR)	0.01860	0.00100	**0.01852**	0.32940	0.12960	**0.27883**	2.50740	0.60000	**1.51217**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.02128**	0.32940	0.06480	**0.32814**	2.50740	0.30000	**1.76421**
	B->Y (RF)	0.01860	0.00100	**0.02434**	0.32940	0.06480	**0.30261**	2.50740	0.30000	**1.58647**
sg13g2_nand2_2	A->Y (RF)	0.01860	0.00100	**0.01960**	0.32940	0.12960	**0.33746**	2.50740	0.60000	**1.81364**
	B->Y (RF)	0.01860	0.00100	**0.02331**	0.32940	0.12960	**0.31216**	2.50740	0.60000	**1.63185**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00252**	0.32940	0.06480	**0.00402**	2.50740	0.30000	**0.01826**
	B	0.01860	0.00100	**0.00287**	0.32940	0.06480	**0.00419**	2.50740	0.30000	**0.01867**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00451**	0.32940	0.12960	**0.00760**	2.50740	0.60000	**0.03497**
	B	0.01860	0.00100	**0.00579**	0.32940	0.12960	**0.00839**	2.50740	0.60000	**0.03670**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00352**	0.32940	0.06480	**0.00469**	2.50740	0.30000	**0.01683**
	B	0.01860	0.00100	**0.00631**	0.32940	0.06480	**0.00708**	2.50740	0.30000	**0.01852**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00665**	0.32940	0.12960	**0.00919**	2.50740	0.60000	**0.03267**
	B	0.01860	0.00100	**0.01203**	0.32940	0.12960	**0.01383**	2.50740	0.60000	**0.03562**

NAND3B

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	0.00236	0.00311	0.00315	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	164.33400	390.86100	793.49100

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.03930**	0.32940	0.06480	**0.21855**	2.50740	0.30000	**0.80821**
	B->Y (FR)	0.01860	0.00100	**0.02189**	0.32940	0.06480	**0.28088**	2.50740	0.30000	**1.51035**
	C->Y (FR)	0.01860	0.00100	**0.02382**	0.32940	0.06480	**0.28414**	2.50740	0.30000	**1.51499**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.05231**	0.32940	0.06480	**0.35535**	2.50740	0.30000	**1.39175**
	B->Y (RF)	0.01860	0.00100	**0.03767**	0.32940	0.06480	**0.39191**	2.50740	0.30000	**1.98980**
	C->Y (RF)	0.01860	0.00100	**0.04039**	0.32940	0.06480	**0.36843**	2.50740	0.30000	**1.79526**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00346**	0.32940	0.06480	**0.00379**	2.50740	0.30000	**0.00274**
	B	0.01860	0.00100	**0.00341**	0.32940	0.06480	**0.00446**	2.50740	0.30000	**0.01734**
	C	0.01860	0.00100	**0.00374**	0.32940	0.06480	**0.00473**	2.50740	0.30000	**0.01806**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00843**	0.32940	0.06480	**0.00867**	2.50740	0.30000	**0.00773**
	B	0.01860	0.00100	**0.00826**	0.32940	0.06480	**0.00881**	2.50740	0.30000	**0.01857**
	C	0.01860	0.00100	**0.01075**	0.32940	0.06480	**0.01117**	2.50740	0.30000	**0.02160**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00606**	0.32940	**0.00914**	2.50740	**0.04117**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00335**	0.32940	**0.00673**	2.50740	**0.03938**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00606**	0.32940	**0.00914**	2.50740	**0.04117**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00335**	0.32940	**0.00673**	2.50740	**0.03938**

NAND3

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	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
sg13g2_nand3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nand3_1	0.00298	0.00315	0.00313	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	95.96920	268.25000	725.13700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (FR)	0.01860	0.00100	**0.01907**	0.32940	0.06480	**0.27687**	2.50740	0.30000	**1.50355**
	B->Y (FR)	0.01860	0.00100	**0.02223**	0.32940	0.06480	**0.28068**	2.50740	0.30000	**1.50970**
	C->Y (FR)	0.01860	0.00100	**0.02384**	0.32940	0.06480	**0.28388**	2.50740	0.30000	**1.51571**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (RF)	0.01860	0.00100	**0.03003**	0.32940	0.06480	**0.40696**	2.50740	0.30000	**2.13065**
	B->Y (RF)	0.01860	0.00100	**0.03600**	0.32940	0.06480	**0.38986**	2.50740	0.30000	**1.98451**
	C->Y (RF)	0.01860	0.00100	**0.03851**	0.32940	0.06480	**0.36605**	2.50740	0.30000	**1.78936**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00278**	0.32940	0.06480	**0.00410**	2.50740	0.30000	**0.01651**
	B	0.01860	0.00100	**0.00313**	0.32940	0.06480	**0.00418**	2.50740	0.30000	**0.01700**
	C	0.01860	0.00100	**0.00352**	0.32940	0.06480	**0.00441**	2.50740	0.30000	**0.01797**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00544**	0.32940	0.06480	**0.00641**	2.50740	0.30000	**0.01688**
	B	0.01860	0.00100	**0.00830**	0.32940	0.06480	**0.00886**	2.50740	0.30000	**0.01861**
	C	0.01860	0.00100	**0.01073**	0.32940	0.06480	**0.01113**	2.50740	0.30000	**0.02163**

NAND4

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	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
sg13g2_nand4_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nand4_1	0.00297	0.00315	0.00318	0.00316	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	99.47250	293.44200	966.99000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (FR)	0.01860	0.00100	**0.02034**	0.32940	0.06480	**0.27809**	2.50740	0.30000	**1.50208**
	B->Y (FR)	0.01860	0.00100	**0.02354**	0.32940	0.06480	**0.28186**	2.50740	0.30000	**1.50834**
	C->Y (FR)	0.01860	0.00100	**0.02536**	0.32940	0.06480	**0.28543**	2.50740	0.30000	**1.51411**
	D->Y (FR)	0.01860	0.00100	**0.02611**	0.32940	0.06480	**0.28832**	2.50740	0.30000	**1.51834**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (RF)	0.01860	0.00100	**0.03779**	0.32940	0.06480	**0.48401**	2.50740	0.30000	**2.48093**
	B->Y (RF)	0.01860	0.00100	**0.04690**	0.32940	0.06480	**0.47365**	2.50740	0.30000	**2.35985**
	C->Y (RF)	0.01860	0.00100	**0.05225**	0.32940	0.06480	**0.45642**	2.50740	0.30000	**2.19101**
	D->Y (RF)	0.01860	0.00100	**0.05480**	0.32940	0.06480	**0.44177**	2.50740	0.30000	**2.04075**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00291**	0.32940	0.06480	**0.00412**	2.50740	0.30000	**0.01539**
	B	0.01860	0.00100	**0.00329**	0.32940	0.06480	**0.00415**	2.50740	0.30000	**0.01575**
	C	0.01860	0.00100	**0.00370**	0.32940	0.06480	**0.00449**	2.50740	0.30000	**0.01647**
	D	0.01860	0.00100	**0.00404**	0.32940	0.06480	**0.00471**	2.50740	0.30000	**0.01706**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00660**	0.32940	0.06480	**0.00757**	2.50740	0.30000	**0.01633**
	B	0.01860	0.00100	**0.00949**	0.32940	0.06480	**0.01001**	2.50740	0.30000	**0.01804**
	C	0.01860	0.00100	**0.01197**	0.32940	0.06480	**0.01229**	2.50740	0.30000	**0.02089**
	D	0.01860	0.00100	**0.01436**	0.32940	0.06480	**0.01468**	2.50740	0.30000	**0.02365**

NOR2Bx

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_N	Y
x	0	0
0	1	1
1	1	0

Footprint

Cell Name	Area
sg13g2_nor2b_1	9.07200
sg13g2_nor2b_2	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B_N	Y
sg13g2_nor2b_1	0.00302	0.00240	0.30000
sg13g2_nor2b_2	0.00587	0.00282	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_1	289.50900	377.05800	477.23600
sg13g2_nor2b_2	514.85600	644.29700	801.10800

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.02540**	0.32940	0.06480	**0.40736**	2.50740	0.30000	**2.15363**
	B_N->Y (RR)	0.01860	0.00100	**0.05059**	0.32940	0.06480	**0.35627**	2.50740	0.30000	**1.39800**
sg13g2_nor2b_2	A->Y (FR)	0.01860	0.00100	**0.02215**	0.32940	0.12960	**0.40642**	2.50740	0.60000	**2.15093**
	B_N->Y (RR)	0.01860	0.00100	**0.05528**	0.32940	0.12960	**0.37610**	2.50740	0.60000	**1.44488**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.01602**	0.32940	0.06480	**0.24792**	2.50740	0.30000	**1.36371**
	B_N->Y (FF)	0.01860	0.00100	**0.04197**	0.32940	0.06480	**0.20432**	2.50740	0.30000	**0.71664**
sg13g2_nor2b_2	A->Y (RF)	0.01860	0.00100	**0.01466**	0.32940	0.12960	**0.25442**	2.50740	0.60000	**1.40171**
	B_N->Y (FF)	0.01860	0.00100	**0.04945**	0.32940	0.12960	**0.22956**	2.50740	0.60000	**0.77101**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00316**	0.32940	0.06480	**0.00464**	2.50740	0.30000	**0.01734**
	B_N	0.01860	0.00100	**0.00714**	0.32940	0.06480	**0.00728**	2.50740	0.30000	**0.00675**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00631**	0.32940	0.12960	**0.00943**	2.50740	0.60000	**0.03364**
	B_N	0.01860	0.00100	**0.01357**	0.32940	0.12960	**0.01405**	2.50740	0.60000	**0.01409**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00289**	0.32940	0.06480	**0.00432**	2.50740	0.30000	**0.01520**
	B_N	0.01860	0.00100	**0.00371**	0.32940	0.06480	**0.00391**	2.50740	0.30000	**0.00234**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00456**	0.32940	0.12960	**0.00749**	2.50740	0.60000	**0.02831**
	B_N	0.01860	0.00100	**0.00683**	0.32940	0.12960	**0.00732**	2.50740	0.60000	**0.00552**

Passive power(pJ) for B_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00613**	0.32940	**0.00894**	2.50740	**0.04066**
sg13g2_nor2b_2	0.01860	**0.01110**	0.32940	**0.01406**	2.50740	**0.05083**

Passive power(pJ) for B_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00564**	0.32940	**0.00881**	2.50740	**0.04125**
sg13g2_nor2b_2	0.01860	**0.00968**	0.32940	**0.01304**	2.50740	**0.05106**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00613**	0.32940	**0.00894**	2.50740	**0.04066**
sg13g2_nor2b_2	**A**	0.01860	**0.01110**	0.32940	**0.01406**	2.50740	**0.05083**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00564**	0.32940	**0.00881**	2.50740	**0.04125**
sg13g2_nor2b_2	**A**	0.01860	**0.00968**	0.32940	**0.01304**	2.50740	**0.05106**

NOR2x

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
sg13g2_nor2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_1	0.00319	0.00302	0.30000
sg13g2_nor2_2	0.00612	0.00584	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	187.81100	254.45500	308.46900
sg13g2_nor2_2	375.58700	508.93000	617.01400

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.02978**	0.32940	0.06480	**0.37402**	2.50740	0.30000	**1.89243**
	B->Y (FR)	0.01860	0.00100	**0.02548**	0.32940	0.06480	**0.40713**	2.50740	0.30000	**2.15292**
sg13g2_nor2_2	A->Y (FR)	0.01860	0.00100	**0.02805**	0.32940	0.06480	**0.23622**	2.50740	0.30000	**1.19599**
	B->Y (FR)	0.01860	0.00100	**0.02239**	0.32940	0.06480	**0.26340**	2.50740	0.30000	**1.39803**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.01874**	0.32940	0.06480	**0.25133**	2.50740	0.30000	**1.37037**
	B->Y (RF)	0.01860	0.00100	**0.01607**	0.32940	0.06480	**0.24792**	2.50740	0.30000	**1.36366**
sg13g2_nor2_2	A->Y (RF)	0.01860	0.00100	**0.01755**	0.32940	0.06480	**0.17252**	2.50740	0.30000	**0.91471**
	B->Y (RF)	0.01860	0.00100	**0.01442**	0.32940	0.06480	**0.16722**	2.50740	0.30000	**0.90396**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00669**	0.32940	0.06480	**0.00751**	2.50740	0.30000	**0.02009**
	B	0.01860	0.00100	**0.00318**	0.32940	0.06480	**0.00465**	2.50740	0.30000	**0.01741**
sg13g2_nor2_2	A	0.01860	0.00100	**0.01352**	0.32940	0.06480	**0.01563**	2.50740	0.30000	**0.05198**
	B	0.01860	0.00100	**0.00645**	0.32940	0.06480	**0.01051**	2.50740	0.30000	**0.04788**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00307**	0.32940	0.06480	**0.00411**	2.50740	0.30000	**0.01548**
	B	0.01860	0.00100	**0.00288**	0.32940	0.06480	**0.00430**	2.50740	0.30000	**0.01510**
sg13g2_nor2_2	A	0.01860	0.00100	**0.00616**	0.32940	0.06480	**0.00910**	2.50740	0.30000	**0.04312**
	B	0.01860	0.00100	**0.00451**	0.32940	0.06480	**0.00809**	2.50740	0.30000	**0.03974**

NOR3x

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
sg13g2_nor3_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_1	0.00317	0.00316	0.00300	0.30000
sg13g2_nor3_2	0.00607	0.00602	0.00577	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	229.81900	325.97500	460.07100
sg13g2_nor3_2	445.72300	630.67200	878.32100

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.05325**	0.32940	0.06480	**0.49972**	2.50740	0.30000	**2.32603**
	B->Y (FR)	0.01860	0.00100	**0.04953**	0.32940	0.06480	**0.52292**	2.50740	0.30000	**2.55716**
	C->Y (FR)	0.01860	0.00100	**0.03791**	0.32940	0.06480	**0.53943**	2.50740	0.30000	**2.74914**
sg13g2_nor3_2	A->Y (FR)	0.01860	0.00100	**0.04853**	0.32940	0.12960	**0.50071**	2.50740	0.60000	**2.33083**
	B->Y (FR)	0.01860	0.00100	**0.04507**	0.32940	0.12960	**0.52460**	2.50740	0.60000	**2.56442**
	C->Y (FR)	0.01860	0.00100	**0.03218**	0.32940	0.12960	**0.53963**	2.50740	0.60000	**2.75758**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.02097**	0.32940	0.06480	**0.25029**	2.50740	0.30000	**1.33870**
	B->Y (RF)	0.01860	0.00100	**0.02058**	0.32940	0.06480	**0.24796**	2.50740	0.30000	**1.33649**
	C->Y (RF)	0.01860	0.00100	**0.01772**	0.32940	0.06480	**0.24421**	2.50740	0.30000	**1.33029**
sg13g2_nor3_2	A->Y (RF)	0.01860	0.00100	**0.01982**	0.32940	0.12960	**0.25659**	2.50740	0.60000	**1.37541**
	B->Y (RF)	0.01860	0.00100	**0.01954**	0.32940	0.12960	**0.25377**	2.50740	0.60000	**1.37029**
	C->Y (RF)	0.01860	0.00100	**0.01618**	0.32940	0.12960	**0.24955**	2.50740	0.60000	**1.36419**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.01155**	0.32940	0.06480	**0.01169**	2.50740	0.30000	**0.02306**
	B	0.01860	0.00100	**0.00845**	0.32940	0.06480	**0.00878**	2.50740	0.30000	**0.01926**
	C	0.01860	0.00100	**0.00496**	0.32940	0.06480	**0.00611**	2.50740	0.30000	**0.01735**
sg13g2_nor3_2	A	0.01860	0.00100	**0.02248**	0.32940	0.12960	**0.02280**	2.50740	0.60000	**0.04453**
	B	0.01860	0.00100	**0.01625**	0.32940	0.12960	**0.01699**	2.50740	0.60000	**0.03653**
	C	0.01860	0.00100	**0.00919**	0.32940	0.12960	**0.01154**	2.50740	0.60000	**0.03303**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.00419**	0.32940	0.06480	**0.00494**	2.50740	0.30000	**0.01572**
	B	0.01860	0.00100	**0.00381**	0.32940	0.06480	**0.00471**	2.50740	0.30000	**0.01474**
	C	0.01860	0.00100	**0.00318**	0.32940	0.06480	**0.00446**	2.50740	0.30000	**0.01423**
sg13g2_nor3_2	A	0.01860	0.00100	**0.00771**	0.32940	0.12960	**0.00901**	2.50740	0.60000	**0.02924**
	B	0.01860	0.00100	**0.00706**	0.32940	0.12960	**0.00867**	2.50740	0.60000	**0.02772**
	C	0.01860	0.00100	**0.00510**	0.32940	0.12960	**0.00782**	2.50740	0.60000	**0.02620**

NOR4x

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	10.88640
sg13g2_nor4_2	21.77280

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_1	0.00315	0.00314	0.00310	0.00293	0.30000
sg13g2_nor4_2	0.00609	0.00600	0.00594	0.00574	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	225.52800	385.88700	574.94700
sg13g2_nor4_2	451.00200	771.79200	1149.93000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.07964**	0.32940	0.06480	**0.64238**	2.50740	0.30000	**2.82671**
	B->Y (FR)	0.01860	0.00100	**0.07623**	0.32940	0.06480	**0.65425**	2.50740	0.30000	**2.99151**
	C->Y (FR)	0.01860	0.00100	**0.06663**	0.32940	0.06480	**0.66643**	2.50740	0.30000	**3.18127**
	D->Y (FR)	0.01860	0.00100	**0.04785**	0.32940	0.06480	**0.67012**	2.50740	0.30000	**3.32668**
sg13g2_nor4_2	A->Y (FR)	0.01860	0.00100	**0.07641**	0.32940	0.12960	**0.64771**	2.50740	0.60000	**2.84752**
	B->Y (FR)	0.01860	0.00100	**0.07309**	0.32940	0.12960	**0.66020**	2.50740	0.60000	**3.01135**
	C->Y (FR)	0.01860	0.00100	**0.06240**	0.32940	0.12960	**0.67051**	2.50740	0.60000	**3.19866**
	D->Y (FR)	0.01860	0.00100	**0.04190**	0.32940	0.12960	**0.67282**	2.50740	0.60000	**3.34454**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.02235**	0.32940	0.06480	**0.26080**	2.50740	0.30000	**1.37911**
	B->Y (RF)	0.01860	0.00100	**0.02292**	0.32940	0.06480	**0.25876**	2.50740	0.30000	**1.37717**
	C->Y (RF)	0.01860	0.00100	**0.02209**	0.32940	0.06480	**0.25529**	2.50740	0.30000	**1.37107**
	D->Y (RF)	0.01860	0.00100	**0.01904**	0.32940	0.06480	**0.25126**	2.50740	0.30000	**1.36473**
sg13g2_nor4_2	A->Y (RF)	0.01860	0.00100	**0.02093**	0.32940	0.12960	**0.26112**	2.50740	0.60000	**1.37956**
	B->Y (RF)	0.01860	0.00100	**0.02157**	0.32940	0.12960	**0.25855**	2.50740	0.60000	**1.37586**
	C->Y (RF)	0.01860	0.00100	**0.02080**	0.32940	0.12960	**0.25495**	2.50740	0.60000	**1.36957**
	D->Y (RF)	0.01860	0.00100	**0.01754**	0.32940	0.12960	**0.25051**	2.50740	0.60000	**1.36083**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.01536**	0.32940	0.06480	**0.01520**	2.50740	0.30000	**0.02516**
	B	0.01860	0.00100	**0.01227**	0.32940	0.06480	**0.01225**	2.50740	0.30000	**0.02162**
	C	0.01860	0.00100	**0.00924**	0.32940	0.06480	**0.00935**	2.50740	0.30000	**0.01870**
	D	0.01860	0.00100	**0.00577**	0.32940	0.06480	**0.00669**	2.50740	0.30000	**0.01723**
sg13g2_nor4_2	A	0.01860	0.00100	**0.03107**	0.32940	0.12960	**0.03100**	2.50740	0.60000	**0.05175**
	B	0.01860	0.00100	**0.02500**	0.32940	0.12960	**0.02505**	2.50740	0.60000	**0.04391**
	C	0.01860	0.00100	**0.01900**	0.32940	0.12960	**0.01919**	2.50740	0.60000	**0.03781**
	D	0.01860	0.00100	**0.01184**	0.32940	0.12960	**0.01379**	2.50740	0.60000	**0.03472**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.00488**	0.32940	0.06480	**0.00522**	2.50740	0.30000	**0.01439**
	B	0.01860	0.00100	**0.00461**	0.32940	0.06480	**0.00515**	2.50740	0.30000	**0.01371**
	C	0.01860	0.00100	**0.00405**	0.32940	0.06480	**0.00485**	2.50740	0.30000	**0.01304**
	D	0.01860	0.00100	**0.00331**	0.32940	0.06480	**0.00455**	2.50740	0.30000	**0.01265**
sg13g2_nor4_2	A	0.01860	0.00100	**0.00970**	0.32940	0.12960	**0.01045**	2.50740	0.60000	**0.02866**
	B	0.01860	0.00100	**0.00912**	0.32940	0.12960	**0.01007**	2.50740	0.60000	**0.02719**
	C	0.01860	0.00100	**0.00739**	0.32940	0.12960	**0.00903**	2.50740	0.60000	**0.02574**
	D	0.01860	0.00100	**0.00537**	0.32940	0.12960	**0.00807**	2.50740	0.60000	**0.02431**

O21AI

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	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
sg13g2_o21ai_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_o21ai_1	0.00358	0.00350	0.00333	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	211.90500	444.57700	709.34700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (FR)	0.01860	0.00100	**0.04820**	0.32940	0.06480	**0.44587**	2.50740	0.30000	**2.17332**
	A2->Y (FR)	0.01860	0.00100	**0.04209**	0.32940	0.06480	**0.47903**	2.50740	0.30000	**2.46168**
	B1->Y (FR)	0.01860	0.00100	**0.01958**	0.32940	0.06480	**0.31278**	2.50740	0.30000	**1.71643**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (RF)	0.01860	0.00100	**0.03345**	0.32940	0.06480	**0.31315**	2.50740	0.30000	**1.57066**
	A2->Y (RF)	0.01860	0.00100	**0.02813**	0.32940	0.06480	**0.30652**	2.50740	0.30000	**1.55949**
	B1->Y (RF)	0.01860	0.00100	**0.02206**	0.32940	0.06480	**0.33120**	2.50740	0.30000	**1.75986**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01958**	0.32940	0.06480	**0.31278**	2.50740	0.30000	**1.71643**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02206**	0.32940	0.06480	**0.33120**	2.50740	0.30000	**1.75986**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00809**	0.32940	0.06480	**0.00850**	2.50740	0.30000	**0.01945**
	A2	0.01860	0.00100	**0.00414**	0.32940	0.06480	**0.00507**	2.50740	0.30000	**0.01551**
	B1	0.01860	0.00100	**0.00261**	0.32940	0.06480	**0.00405**	2.50740	0.30000	**0.01754**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00749**	0.32940	0.06480	**0.00784**	2.50740	0.30000	**0.01772**
	A2	0.01860	0.00100	**0.00703**	0.32940	0.06480	**0.00790**	2.50740	0.30000	**0.01722**
	B1	0.01860	0.00100	**0.00362**	0.32940	0.06480	**0.00486**	2.50740	0.30000	**0.01673**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00261**	0.32940	0.06480	**0.00405**	2.50740	0.30000	**0.01754**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00362**	0.32940	0.06480	**0.00486**	2.50740	0.30000	**0.01673**

OR2x

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	9.07200
sg13g2_or2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_1	0.00262	0.00243	0.30000
sg13g2_or2_2	0.00259	0.00240	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	255.63800	314.07600	378.54500
sg13g2_or2_2	349.48300	444.88500	620.24600

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.04073**	0.32940	0.06480	**0.22830**	2.50740	0.30000	**0.81268**
	B->X (RR)	0.01860	0.00100	**0.03757**	0.32940	0.06480	**0.21666**	2.50740	0.30000	**0.76461**
sg13g2_or2_2	A->X (RR)	0.01860	0.00100	**0.04799**	0.32940	0.12960	**0.25412**	2.50740	0.60000	**0.86920**
	B->X (RR)	0.01860	0.00100	**0.04503**	0.32940	0.12960	**0.24432**	2.50740	0.60000	**0.82662**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.06256**	0.32940	0.06480	**0.23107**	2.50740	0.30000	**0.78095**
	B->X (FF)	0.01860	0.00100	**0.05808**	0.32940	0.06480	**0.24179**	2.50740	0.30000	**0.83246**
sg13g2_or2_2	A->X (FF)	0.01860	0.00100	**0.08134**	0.32940	0.12960	**0.27039**	2.50740	0.60000	**0.84828**
	B->X (FF)	0.01860	0.00100	**0.07706**	0.32940	0.12960	**0.28679**	2.50740	0.60000	**0.90961**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.00950**	0.32940	0.06480	**0.01203**	2.50740	0.30000	**0.03910**
	B	0.01860	0.00100	**0.00923**	0.32940	0.06480	**0.01173**	2.50740	0.30000	**0.03828**
sg13g2_or2_2	A	0.01860	0.00100	**0.01596**	0.32940	0.12960	**0.01829**	2.50740	0.60000	**0.04455**
	B	0.01860	0.00100	**0.01570**	0.32940	0.12960	**0.01816**	2.50740	0.60000	**0.04352**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.01205**	0.32940	0.06480	**0.01412**	2.50740	0.30000	**0.04064**
	B	0.01860	0.00100	**0.00953**	0.32940	0.06480	**0.01261**	2.50740	0.30000	**0.03947**
sg13g2_or2_2	A	0.01860	0.00100	**0.01991**	0.32940	0.12960	**0.02045**	2.50740	0.60000	**0.04611**
	B	0.01860	0.00100	**0.01750**	0.32940	0.12960	**0.01886**	2.50740	0.60000	**0.04484**

OR3x

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
sg13g2_or3_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_1	0.00276	0.00268	0.00254	0.30000
sg13g2_or3_2	0.00274	0.00267	0.00252	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	266.55300	354.73000	474.01800
sg13g2_or3_2	360.48900	467.21100	715.80700

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.04660**	0.32940	0.06480	**0.24690**	2.50740	0.30000	**0.86479**
	B->X (RR)	0.01860	0.00100	**0.04474**	0.32940	0.06480	**0.23746**	2.50740	0.30000	**0.81964**
	C->X (RR)	0.01860	0.00100	**0.04056**	0.32940	0.06480	**0.22492**	2.50740	0.30000	**0.77614**
sg13g2_or3_2	A->X (RR)	0.01860	0.00100	**0.05353**	0.32940	0.12960	**0.27048**	2.50740	0.60000	**0.92090**
	B->X (RR)	0.01860	0.00100	**0.05155**	0.32940	0.12960	**0.26211**	2.50740	0.60000	**0.87573**
	C->X (RR)	0.01860	0.00100	**0.04752**	0.32940	0.12960	**0.25126**	2.50740	0.60000	**0.83816**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.08883**	0.32940	0.06480	**0.25584**	2.50740	0.30000	**0.79399**
	B->X (FF)	0.01860	0.00100	**0.08552**	0.32940	0.06480	**0.26715**	2.50740	0.30000	**0.85702**
	C->X (FF)	0.01860	0.00100	**0.07430**	0.32940	0.06480	**0.26877**	2.50740	0.30000	**0.88193**
sg13g2_or3_2	A->X (FF)	0.01860	0.00100	**0.11219**	0.32940	0.12960	**0.29711**	2.50740	0.60000	**0.85414**
	B->X (FF)	0.01860	0.00100	**0.10893**	0.32940	0.12960	**0.31182**	2.50740	0.60000	**0.92899**
	C->X (FF)	0.01860	0.00100	**0.09803**	0.32940	0.12960	**0.31753**	2.50740	0.60000	**0.96455**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.01012**	0.32940	0.06480	**0.01224**	2.50740	0.30000	**0.04091**
	B	0.01860	0.00100	**0.00989**	0.32940	0.06480	**0.01201**	2.50740	0.30000	**0.03813**
	C	0.01860	0.00100	**0.00940**	0.32940	0.06480	**0.01178**	2.50740	0.30000	**0.03779**
sg13g2_or3_2	A	0.01860	0.00100	**0.01668**	0.32940	0.12960	**0.01866**	2.50740	0.60000	**0.04696**
	B	0.01860	0.00100	**0.01641**	0.32940	0.12960	**0.01837**	2.50740	0.60000	**0.04385**
	C	0.01860	0.00100	**0.01592**	0.32940	0.12960	**0.01804**	2.50740	0.60000	**0.04339**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.01732**	0.32940	0.06480	**0.01825**	2.50740	0.30000	**0.04616**
	B	0.01860	0.00100	**0.01463**	0.32940	0.06480	**0.01591**	2.50740	0.30000	**0.04220**
	C	0.01860	0.00100	**0.01162**	0.32940	0.06480	**0.01414**	2.50740	0.30000	**0.04044**
sg13g2_or3_2	A	0.01860	0.00100	**0.02639**	0.32940	0.12960	**0.02473**	2.50740	0.60000	**0.05085**
	B	0.01860	0.00100	**0.02366**	0.32940	0.12960	**0.02227**	2.50740	0.60000	**0.04737**
	C	0.01860	0.00100	**0.02068**	0.32940	0.12960	**0.02034**	2.50740	0.60000	**0.04562**

OR4x

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
sg13g2_or4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_1	0.00275	0.00265	0.00262	0.00253	0.30000
sg13g2_or4_2	0.00273	0.00264	0.00261	0.00251	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	269.22100	388.87700	551.50200
sg13g2_or4_2	363.10500	492.02900	793.24600

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.04866**	0.32940	0.06480	**0.25609**	2.50740	0.30000	**0.87586**
	B->X (RR)	0.01860	0.00100	**0.04824**	0.32940	0.06480	**0.24931**	2.50740	0.30000	**0.83482**
	C->X (RR)	0.01860	0.00100	**0.04575**	0.32940	0.06480	**0.23912**	2.50740	0.30000	**0.79666**
	D->X (RR)	0.01860	0.00100	**0.04136**	0.32940	0.06480	**0.22639**	2.50740	0.30000	**0.75584**
sg13g2_or4_2	A->X (RR)	0.01860	0.00100	**0.05583**	0.32940	0.12960	**0.27861**	2.50740	0.60000	**0.92608**
	B->X (RR)	0.01860	0.00100	**0.05511**	0.32940	0.12960	**0.27239**	2.50740	0.60000	**0.89165**
	C->X (RR)	0.01860	0.00100	**0.05235**	0.32940	0.12960	**0.26343**	2.50740	0.60000	**0.85504**
	D->X (RR)	0.01860	0.00100	**0.04819**	0.32940	0.12960	**0.25272**	2.50740	0.60000	**0.81774**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.12386**	0.32940	0.06480	**0.29794**	2.50740	0.30000	**0.84399**
	B->X (FF)	0.01860	0.00100	**0.12037**	0.32940	0.06480	**0.30466**	2.50740	0.30000	**0.90936**
	C->X (FF)	0.01860	0.00100	**0.10973**	0.32940	0.06480	**0.30628**	2.50740	0.30000	**0.94876**
	D->X (FF)	0.01860	0.00100	**0.09140**	0.32940	0.06480	**0.30153**	2.50740	0.30000	**0.96280**
sg13g2_or4_2	A->X (FF)	0.01860	0.00100	**0.15546**	0.32940	0.12960	**0.34736**	2.50740	0.60000	**0.90971**
	B->X (FF)	0.01860	0.00100	**0.15206**	0.32940	0.12960	**0.35591**	2.50740	0.60000	**0.98371**
	C->X (FF)	0.01860	0.00100	**0.14133**	0.32940	0.12960	**0.36049**	2.50740	0.60000	**1.03433**
	D->X (FF)	0.01860	0.00100	**0.12337**	0.32940	0.12960	**0.35894**	2.50740	0.60000	**1.05626**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.01113**	0.32940	0.06480	**0.01281**	2.50740	0.30000	**0.03970**
	B	0.01860	0.00100	**0.01079**	0.32940	0.06480	**0.01247**	2.50740	0.30000	**0.03687**
	C	0.01860	0.00100	**0.01000**	0.32940	0.06480	**0.01183**	2.50740	0.30000	**0.03471**
	D	0.01860	0.00100	**0.00945**	0.32940	0.06480	**0.01161**	2.50740	0.30000	**0.03496**
sg13g2_or4_2	A	0.01860	0.00100	**0.01776**	0.32940	0.12960	**0.01929**	2.50740	0.60000	**0.04593**
	B	0.01860	0.00100	**0.01738**	0.32940	0.12960	**0.01887**	2.50740	0.60000	**0.04320**
	C	0.01860	0.00100	**0.01651**	0.32940	0.12960	**0.01837**	2.50740	0.60000	**0.04082**
	D	0.01860	0.00100	**0.01595**	0.32940	0.12960	**0.01804**	2.50740	0.60000	**0.04031**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.02101**	0.32940	0.06480	**0.02080**	2.50740	0.30000	**0.04642**
	B	0.01860	0.00100	**0.01837**	0.32940	0.06480	**0.01839**	2.50740	0.30000	**0.04279**
	C	0.01860	0.00100	**0.01571**	0.32940	0.06480	**0.01617**	2.50740	0.30000	**0.03891**
	D	0.01860	0.00100	**0.01263**	0.32940	0.06480	**0.01435**	2.50740	0.30000	**0.03811**
sg13g2_or4_2	A	0.01860	0.00100	**0.03184**	0.32940	0.12960	**0.02714**	2.50740	0.60000	**0.05143**
	B	0.01860	0.00100	**0.02921**	0.32940	0.12960	**0.02489**	2.50740	0.60000	**0.04874**
	C	0.01860	0.00100	**0.02651**	0.32940	0.12960	**0.02274**	2.50740	0.60000	**0.04549**
	D	0.01860	0.00100	**0.02349**	0.32940	0.12960	**0.02068**	2.50740	0.60000	**0.04407**

SDFBBP

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	CLK	**D**	**RESET_B**	**SCD**	**SCE**	**SET_B**	**Q**	**Q_N**
sg13g2_sdfbbp_1	0.00318	0.00205	0.00182	0.00210	0.00371	0.00549	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	1768.27000	2271.16000	2443.87000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.20344**	0.32940	0.06480	**0.38857**	2.50740	0.30000	**0.95788**
	SET_B->Q (FR)	0.01860	0.00100	**0.08494**	0.32940	0.06480	**0.29169**	2.50740	0.30000	**0.92123**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.16803**	0.32940	0.06480	**0.33401**	2.50740	0.30000	**0.82348**
	RESET_B->Q (FF)	0.01860	0.00100	**0.13938**	0.32940	0.06480	**0.32264**	2.50740	0.30000	**0.86070**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.20344**	0.32940	0.06480	**0.38857**	2.50740	0.30000	**0.95788**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.16803**	0.32940	0.06480	**0.33401**	2.50740	0.30000	**0.82348**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.13905**	0.32940	0.06480	**0.34074**	2.50740	0.30000	**0.92295**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10968**	0.32940	0.06480	**0.33366**	2.50740	0.30000	**0.96756**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.16987**	0.32940	0.06480	**0.36136**	2.50740	0.30000	**0.84372**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.05696**	0.32940	0.06480	**0.26150**	2.50740	0.30000	**0.81451**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.13905**	0.32940	0.06480	**0.34074**	2.50740	0.30000	**0.92295**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.16987**	0.32940	0.06480	**0.36136**	2.50740	0.30000	**0.84372**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06378**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08301**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.23908**
	setup	**CLK (R)**	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.19158**	2.50740	2.50740	**0.25383**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.15920**	2.50740	2.50740	**-0.22137**
	setup	**CLK (R)**	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.25383**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.04401**	1.26300	1.26300	**0.07555**	2.50740	2.50740	**0.09150**
	removal	**CLK (R)**	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.06206**	2.50740	2.50740	**-0.07379**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.09262**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.08069**	1.26300	1.26300	**-0.21047**	2.50740	2.50740	**-0.28335**
	setup	CLK (R)	0.01860	0.01860	**0.09536**	1.26300	1.26300	**0.21857**	2.50740	2.50740	**0.29220**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.15651**	2.50740	2.50740	**-0.20956**
	setup	CLK (R)	0.01860	0.01860	**0.12470**	1.26300	1.26300	**0.18349**	2.50740	2.50740	**0.24498**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.19968**	2.50740	2.50740	**-0.27744**
	setup	CLK (R)	0.01860	0.01860	**0.08314**	1.26300	1.26300	**0.22396**	2.50740	2.50740	**0.30696**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.14167**
	setup	CLK (R)	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.13762**	2.50740	2.50740	**0.17709**

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.00734**	1.26300	1.26300	**0.08635**	2.50740	2.50740	**0.28335**
	removal	CLK (R)	0.01860	0.01860	**0.02690**	1.26300	1.26300	**0.06206**	2.50740	2.50740	**0.05903**
	hold	RESET_B (R)	0.01860	0.01860	**-0.04890**	1.26300	1.26300	**-0.13762**	2.50740	2.50740	**-0.19185**
	setup	RESET_B (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.22432**

Constraints(ns) for SET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**SET_B ()**	0.01860	0.00000	**0.06378**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02681**	0.32940	0.06480	**0.02901**	2.50740	0.30000	**0.05201**
	SET_B	0.01860	0.00100	**0.04931**	0.32940	0.06480	**0.12670**	2.50740	0.30000	**0.45148**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02585**	0.32940	0.06480	**0.02824**	2.50740	0.30000	**0.05143**
	RESET_B	0.01860	0.00100	**0.05586**	0.32940	0.06480	**0.12997**	2.50740	0.30000	**0.42118**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02681**	0.32940	0.06480	**0.02901**	2.50740	0.30000	**0.05201**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02585**	0.32940	0.06480	**0.02824**	2.50740	0.30000	**0.05143**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02585**	0.32940	0.06480	**0.02828**	2.50740	0.30000	**0.05219**
	RESET_B	0.01860	0.00100	**0.05582**	0.32940	0.06480	**0.13026**	2.50740	0.30000	**0.42164**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02680**	0.32940	0.06480	**0.02897**	2.50740	0.30000	**0.05136**
	SET_B	0.01860	0.00100	**0.04930**	0.32940	0.06480	**0.12664**	2.50740	0.30000	**0.45112**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02585**	0.32940	0.06480	**0.02828**	2.50740	0.30000	**0.05219**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02680**	0.32940	0.06480	**0.02897**	2.50740	0.30000	**0.05136**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01800**	0.32940	**0.02188**	2.50740	**0.06812**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02174**	0.32940	**0.02660**	2.50740	**0.07512**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01793**	0.32940	**0.02175**	2.50740	**0.06777**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02354**	0.32940	**0.02732**	2.50740	**0.07328**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01800**	0.32940	**0.02188**	2.50740	**0.06812**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01774**	0.32940	**0.02153**	2.50740	**0.06756**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01746**	0.32940	**0.02137**	2.50740	**0.06748**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01800**	0.32940	**0.02189**	2.50740	**0.06813**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01752**	0.32940	**0.02198**	2.50740	**0.06956**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.03110**	0.32940	**0.03559**	2.50740	**0.08455**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02174**	0.32940	**0.02660**	2.50740	**0.07512**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.03412**	0.32940	**0.03901**	2.50740	**0.08759**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01746**	0.32940	**0.02193**	2.50740	**0.06940**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01729**	0.32940	**0.02176**	2.50740	**0.06933**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01614**	0.32940	**0.02063**	2.50740	**0.06806**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01787**	0.32940	**0.02232**	2.50740	**0.06975**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01754**	0.32940	**0.01872**	2.50740	**0.03824**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01807**	0.32940	**0.01947**	2.50740	**0.03958**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	**(!CLK * RESET_B * !SCE * SET_B)**	0.01860	**0.01754**	0.32940	**0.01872**	2.50740	**0.03824**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00717**	0.32940	**0.00800**	2.50740	**0.02560**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	**(!CLK * RESET_B * !SCE * SET_B)**	0.01860	**0.01807**	0.32940	**0.01947**	2.50740	**0.03958**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00732**	0.32940	**0.00844**	2.50740	**0.02643**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01989**	0.32940	**0.02076**	2.50740	**0.03908**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02466**	0.32940	**0.02544**	2.50740	**0.04504**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01989**	0.32940	**0.02076**	2.50740	**0.03908**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00952**	0.32940	**0.01005**	2.50740	**0.02670**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.02466**	0.32940	**0.02544**	2.50740	**0.04504**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00993**	0.32940	**0.01063**	2.50740	**0.02818**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02195**	0.32940	**0.02419**	2.50740	**0.04836**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.02325**	0.32940	**0.02566**	2.50740	**0.05016**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.02195**	0.32940	**0.02419**	2.50740	**0.04836**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02853**	0.32940	**0.03017**	2.50740	**0.05435**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.02033**	0.32940	**0.02402**	2.50740	**0.06861**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00963**	0.32940	**0.01301**	2.50740	**0.05545**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.02325**	0.32940	**0.02566**	2.50740	**0.05016**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.03014**	0.32940	**0.04012**	2.50740	**0.06468**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01328**	0.32940	**0.04454**	2.50740	**0.08876**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00977**	0.32940	**0.01307**	2.50740	**0.05533**

SDFRBPQx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfrbpq_1	63.50400
sg13g2_sdfrbpq_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CLK	D	RESET_B	SCD	SCE	Q
sg13g2_sdfrbpq_1	0.00310	0.00291	0.00529	0.00304	0.00516	0.30000
sg13g2_sdfrbpq_2	0.00310	0.00291	0.00529	0.00304	0.00516	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbpq_1	1812.33000	2074.68000	2321.26000
sg13g2_sdfrbpq_2	2036.93000	2255.55000	2563.00000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.11669**	0.32940	0.06480	**0.31196**	2.50740	0.30000	**0.87692**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.13384**	0.32940	0.12960	**0.33918**	2.50740	0.60000	**0.90578**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.12275**	0.32940	0.06480	**0.29677**	2.50740	0.30000	**0.76875**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06723**	0.32940	0.06480	**0.28440**	2.50740	0.30000	**0.89813**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.14083**	0.32940	0.12960	**0.32562**	2.50740	0.60000	**0.79636**
	RESET_B->Q (FF)	0.01860	0.00100	**0.08479**	0.32940	0.12960	**0.32365**	2.50740	0.60000	**0.97277**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.11664**	0.32940	0.06480	**0.31196**	2.50740	0.30000	**0.87692**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.11669**	0.32940	0.06480	**0.31196**	2.50740	0.30000	**0.87692**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.13384**	0.32940	0.12960	**0.33918**	2.50740	0.60000	**0.90578**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.13385**	0.32940	0.12960	**0.33918**	2.50740	0.60000	**0.90569**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.12276**	0.32940	0.06480	**0.29677**	2.50740	0.30000	**0.76875**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.12275**	0.32940	0.06480	**0.29677**	2.50740	0.30000	**0.76875**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.14083**	0.32940	0.12960	**0.32562**	2.50740	0.60000	**0.79636**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.14083**	0.32940	0.12960	**0.32562**	2.50740	0.60000	**0.79636**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.05417**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06378**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08301**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.07980**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.17000**	2.50740	2.50740	**-0.18595**
	setup	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.20070**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.17000**	2.50740	2.50740	**-0.18595**
	setup	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.20070**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.17000**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.13448**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.26269**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.19968**	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)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.23206**	2.50740	2.50740	**0.45454**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.28335**
sg13g2_sdfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.26984**	2.50740	2.50740	**0.60802**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.28335**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.07980**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.09262**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.17000**	2.50740	2.50740	**-0.18595**
	setup	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.20070**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.17000**	2.50740	2.50740	**-0.18595**
	setup	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.20070**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.17000**	2.50740	2.50740	**-0.22727**
	setup	**CLK (R)**	0.01860	0.01860	**0.13448**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.26269**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.22727**
	setup	**CLK (R)**	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.19968**	2.50740	2.50740	**0.26269**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.18299**
	setup	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.19775**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.18299**
	setup	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.19775**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10514**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.18004**
	setup	**CLK (R)**	0.01860	0.01860	**0.14182**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.21546**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10759**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.18004**
	setup	**CLK (R)**	0.01860	0.01860	**0.13938**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.21251**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.03279**	0.32940	0.06480	**0.03730**	2.50740	0.30000	**0.08649**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.04093**	0.32940	0.12960	**0.04415**	2.50740	0.60000	**0.09331**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.03472**	0.32940	0.06480	**0.03977**	2.50740	0.30000	**0.08691**
	RESET_B	0.01860	0.00100	**0.03224**	0.32940	0.06480	**0.03498**	2.50740	0.30000	**0.07582**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.04280**	0.32940	0.12960	**0.04647**	2.50740	0.60000	**0.09336**
	RESET_B	0.01860	0.00100	**0.04046**	0.32940	0.12960	**0.04146**	2.50740	0.60000	**0.08277**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.03279**	0.32940	0.06480	**0.03730**	2.50740	0.30000	**0.08649**
	CLK	!SCE	0.01860	0.00100	**0.01646**	0.32940	0.06480	**0.01692**	2.50740	0.30000	**0.01969**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.04093**	0.32940	0.12960	**0.04415**	2.50740	0.60000	**0.09331**
	CLK	!SCE	0.01860	0.00100	**0.02457**	0.32940	0.12960	**0.02364**	2.50740	0.60000	**0.02647**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.03472**	0.32940	0.06480	**0.03977**	2.50740	0.30000	**0.08691**
	CLK	!SCE	0.01860	0.00100	**0.01837**	0.32940	0.06480	**0.01937**	2.50740	0.30000	**0.02008**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.04280**	0.32940	0.12960	**0.04647**	2.50740	0.60000	**0.09336**
	CLK	!SCE	0.01860	0.00100	**0.02644**	0.32940	0.12960	**0.02608**	2.50740	0.60000	**0.02652**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01635**	0.32940	**0.02038**	2.50740	**0.06684**
sg13g2_sdfrbpq_2	0.01860	**0.01636**	0.32940	**0.02038**	2.50740	**0.06684**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01670**	0.32940	**0.02129**	2.50740	**0.06908**
sg13g2_sdfrbpq_2	0.01860	**0.01706**	0.32940	**0.02169**	2.50740	**0.06948**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.01670**	0.32940	**0.02084**	2.50740	**0.06727**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01635**	0.32940	**0.02038**	2.50740	**0.06684**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01670**	0.32940	**0.02084**	2.50740	**0.06727**
	(!RESET_B * !Q)	0.01860	**0.01537**	0.32940	**0.01938**	2.50740	**0.06573**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01634**	0.32940	**0.02038**	2.50740	**0.06684**
sg13g2_sdfrbpq_2	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.01671**	0.32940	**0.02084**	2.50740	**0.06727**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01633**	0.32940	**0.02038**	2.50740	**0.06684**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01670**	0.32940	**0.02084**	2.50740	**0.06727**
	(!RESET_B * !Q)	0.01860	**0.01598**	0.32940	**0.01999**	2.50740	**0.06634**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01636**	0.32940	**0.02038**	2.50740	**0.06684**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(RESET_B * SCD * SCE * Q)	0.01860	**0.01637**	0.32940	**0.02100**	2.50740	**0.06891**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.03247**	0.32940	**0.03713**	2.50740	**0.08668**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.02993**	0.32940	**0.03495**	2.50740	**0.08393**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01669**	0.32940	**0.02129**	2.50740	**0.06908**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01637**	0.32940	**0.02100**	2.50740	**0.06891**
	(!RESET_B * !Q)	0.01860	**0.01408**	0.32940	**0.01865**	2.50740	**0.06641**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01670**	0.32940	**0.02129**	2.50740	**0.06908**
sg13g2_sdfrbpq_2	(RESET_B * SCD * SCE * Q)	0.01860	**0.01706**	0.32940	**0.02169**	2.50740	**0.06948**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.03231**	0.32940	**0.03696**	2.50740	**0.08658**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.03055**	0.32940	**0.03557**	2.50740	**0.08446**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01648**	0.32940	**0.02108**	2.50740	**0.06893**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01704**	0.32940	**0.02169**	2.50740	**0.06948**
	(!RESET_B * !Q)	0.01860	**0.01467**	0.32940	**0.01926**	2.50740	**0.06702**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01648**	0.32940	**0.02108**	2.50740	**0.06893**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.03267**	0.32940	**0.03538**	2.50740	**0.07145**
sg13g2_sdfrbpq_2	0.01860	**0.03669**	0.32940	**0.03941**	2.50740	**0.07548**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.03063**	0.32940	**0.03459**	2.50740	**0.07320**
sg13g2_sdfrbpq_2	0.01860	**0.03217**	0.32940	**0.03607**	2.50740	**0.07469**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03267**	0.32940	**0.03538**	2.50740	**0.07145**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03669**	0.32940	**0.03941**	2.50740	**0.07548**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03063**	0.32940	**0.03459**	2.50740	**0.07320**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03217**	0.32940	**0.03607**	2.50740	**0.07469**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.03290**	0.32940	**0.03554**	2.50740	**0.07169**
sg13g2_sdfrbpq_2	0.01860	**0.03692**	0.32940	**0.03958**	2.50740	**0.07573**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.03082**	0.32940	**0.03479**	2.50740	**0.07353**
sg13g2_sdfrbpq_2	0.01860	**0.03235**	0.32940	**0.03627**	2.50740	**0.07502**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.03290**	0.32940	**0.03554**	2.50740	**0.07169**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.03692**	0.32940	**0.03958**	2.50740	**0.07573**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.03082**	0.32940	**0.03479**	2.50740	**0.07353**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.03235**	0.32940	**0.03627**	2.50740	**0.07502**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.03971**	0.32940	**0.04461**	2.50740	**0.11134**
sg13g2_sdfrbpq_2	0.01860	**0.03968**	0.32940	**0.04458**	2.50740	**0.11132**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.05151**	0.32940	**0.07201**	2.50740	**0.14097**
sg13g2_sdfrbpq_2	0.01860	**0.05214**	0.32940	**0.07259**	2.50740	**0.14156**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.03677**	0.32940	**0.03935**	2.50740	**0.07196**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03971**	0.32940	**0.04461**	2.50740	**0.11134**
sg13g2_sdfrbpq_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.03736**	0.32940	**0.03996**	2.50740	**0.07257**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03968**	0.32940	**0.04458**	2.50740	**0.11132**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.04081**	0.32940	**0.04390**	2.50740	**0.07756**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.05151**	0.32940	**0.07201**	2.50740	**0.14097**
sg13g2_sdfrbpq_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.04081**	0.32940	**0.04387**	2.50740	**0.07753**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.05214**	0.32940	**0.07259**	2.50740	**0.14156**

SDFRBPx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfrbp_1	68.94720
sg13g2_sdfrbp_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CLK	D	RESET_B	SCD	SCE	Q	Q_N
sg13g2_sdfrbp_1	0.00310	0.00291	0.00528	0.00304	0.00516	0.30000	0.30000
sg13g2_sdfrbp_2	0.00310	0.00291	0.00528	0.00304	0.00516	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbp_1	1988.17000	2349.70000	2558.80000
sg13g2_sdfrbp_2	2323.80000	2685.29000	2894.38000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.12740**	0.32940	0.06480	**0.31457**	2.50740	0.30000	**0.90304**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.16186**	0.32940	0.12960	**0.34450**	2.50740	0.60000	**0.93579**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.11590**	0.32940	0.06480	**0.27928**	2.50740	0.30000	**0.75223**
	RESET_B->Q (FF)	0.01860	0.00100	**0.16348**	0.32940	0.06480	**0.36727**	2.50740	0.30000	**0.99255**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.14018**	0.32940	0.12960	**0.30475**	2.50740	0.60000	**0.78157**
	RESET_B->Q (FF)	0.01860	0.00100	**0.18889**	0.32940	0.12960	**0.39375**	2.50740	0.60000	**1.02363**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.12740**	0.32940	0.06480	**0.31457**	2.50740	0.30000	**0.90304**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.16186**	0.32940	0.12960	**0.34450**	2.50740	0.60000	**0.93579**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.11590**	0.32940	0.06480	**0.27928**	2.50740	0.30000	**0.75223**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.14018**	0.32940	0.12960	**0.30475**	2.50740	0.60000	**0.78157**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.08981**	0.32940	0.06480	**0.29067**	2.50740	0.30000	**0.85325**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.13766**	0.32940	0.06480	**0.37722**	2.50740	0.30000	**1.09383**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	0.01860	0.00100	**0.09430**	0.32940	0.12960	**0.30280**	2.50740	0.60000	**0.86713**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.14374**	0.32940	0.12960	**0.39047**	2.50740	0.60000	**1.10875**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.09582**	0.32940	0.06480	**0.29412**	2.50740	0.30000	**0.79656**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	0.01860	0.00100	**0.10575**	0.32940	0.12960	**0.31527**	2.50740	0.60000	**0.82093**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.08981**	0.32940	0.06480	**0.29067**	2.50740	0.30000	**0.85325**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.09430**	0.32940	0.12960	**0.30280**	2.50740	0.60000	**0.86713**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.09582**	0.32940	0.06480	**0.29412**	2.50740	0.30000	**0.79656**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.10575**	0.32940	0.12960	**0.31527**	2.50740	0.60000	**0.82093**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.07339**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08942**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.16730**	2.50740	2.50740	**-0.18299**
	setup	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.18349**	2.50740	2.50740	**0.19775**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.16730**	2.50740	2.50740	**-0.18299**
	setup	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.18349**	2.50740	2.50740	**0.19775**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.23317**
	setup	**CLK (R)**	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.20508**	2.50740	2.50740	**0.26269**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.23317**
	setup	**CLK (R)**	0.01860	0.01860	**0.13938**	1.26300	1.26300	**0.20508**	2.50740	2.50740	**0.26269**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28925**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.28335**
sg13g2_sdfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.29220**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.28630**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.07980**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.07980**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.16730**	2.50740	2.50740	**-0.18299**
	setup	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.18349**	2.50740	2.50740	**0.19775**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.16730**	2.50740	2.50740	**-0.18299**
	setup	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.18349**	2.50740	2.50740	**0.19775**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.23612**
	setup	**CLK (R)**	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.20508**	2.50740	2.50740	**0.26564**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.23612**
	setup	**CLK (R)**	0.01860	0.01860	**0.13938**	1.26300	1.26300	**0.20508**	2.50740	2.50740	**0.26564**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.15920**	2.50740	2.50740	**-0.18004**
	setup	**CLK (R)**	0.01860	0.01860	**0.12470**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.19480**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.15920**	2.50740	2.50740	**-0.18004**
	setup	**CLK (R)**	0.01860	0.01860	**0.12470**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.19480**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.14571**	2.50740	2.50740	**-0.18890**
	setup	**CLK (R)**	0.01860	0.01860	**0.14427**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.21841**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.14571**	2.50740	2.50740	**-0.18890**
	setup	**CLK (R)**	0.01860	0.01860	**0.14671**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.21841**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.04858**	0.32940	0.06480	**0.12465**	2.50740	0.30000	**0.43781**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.06339**	0.32940	0.12960	**0.21018**	2.50740	0.60000	**0.78742**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.04855**	0.32940	0.06480	**0.12582**	2.50740	0.30000	**0.43678**
	RESET_B	0.01860	0.00100	**0.05128**	0.32940	0.06480	**0.14465**	2.50740	0.30000	**0.51861**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.06179**	0.32940	0.12960	**0.21164**	2.50740	0.60000	**0.78580**
	RESET_B	0.01860	0.00100	**0.06508**	0.32940	0.12960	**0.24796**	2.50740	0.60000	**0.94827**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	**0.04858**	0.32940	0.06480	**0.12465**	2.50740	0.30000	**0.43781**
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	**0.06339**	0.32940	0.12960	**0.21018**	2.50740	0.60000	**0.78742**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	**0.04855**	0.32940	0.06480	**0.12582**	2.50740	0.30000	**0.43678**
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	**0.06179**	0.32940	0.12960	**0.21164**	2.50740	0.60000	**0.78580**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.04858**	0.32940	0.06480	**0.12577**	2.50740	0.30000	**0.43790**
	RESET_B	0.01860	0.00100	**0.05113**	0.32940	0.06480	**0.13613**	2.50740	0.30000	**0.47892**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.06185**	0.32940	0.12960	**0.21185**	2.50740	0.60000	**0.78838**
	RESET_B	0.01860	0.00100	**0.06499**	0.32940	0.12960	**0.23105**	2.50740	0.60000	**0.86877**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.04857**	0.32940	0.06480	**0.12458**	2.50740	0.30000	**0.43617**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.06438**	0.32940	0.12960	**0.21114**	2.50740	0.60000	**0.78504**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	**0.04858**	0.32940	0.06480	**0.12577**	2.50740	0.30000	**0.43790**
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	**0.06185**	0.32940	0.12960	**0.21185**	2.50740	0.60000	**0.78838**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	**0.04857**	0.32940	0.06480	**0.12458**	2.50740	0.30000	**0.43617**
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	**0.06438**	0.32940	0.12960	**0.21114**	2.50740	0.60000	**0.78504**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01639**	0.32940	**0.02043**	2.50740	**0.06683**
sg13g2_sdfrbp_2	0.01860	**0.01639**	0.32940	**0.02043**	2.50740	**0.06674**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01674**	0.32940	**0.02129**	2.50740	**0.06909**
sg13g2_sdfrbp_2	0.01860	**0.01674**	0.32940	**0.02129**	2.50740	**0.06908**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.01678**	0.32940	**0.02084**	2.50740	**0.06719**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01639**	0.32940	**0.02043**	2.50740	**0.06683**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01678**	0.32940	**0.02084**	2.50740	**0.06719**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01442**	0.32940	**0.01843**	2.50740	**0.06473**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01639**	0.32940	**0.02043**	2.50740	**0.06683**
sg13g2_sdfrbp_2	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.01679**	0.32940	**0.02084**	2.50740	**0.06725**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01641**	0.32940	**0.02043**	2.50740	**0.06674**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01679**	0.32940	**0.02084**	2.50740	**0.06725**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01443**	0.32940	**0.01844**	2.50740	**0.06471**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01639**	0.32940	**0.02043**	2.50740	**0.06674**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last

sg13g2_sdfrbp_1	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.01644**	0.32940	**0.02100**	2.50740	**0.06890**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.03251**	0.32940	**0.03712**	2.50740	**0.08666**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.02997**	0.32940	**0.03494**	2.50740	**0.08391**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01674**	0.32940	**0.02129**	2.50740	**0.06909**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01644**	0.32940	**0.02100**	2.50740	**0.06890**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01312**	0.32940	**0.01766**	2.50740	**0.06543**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01672**	0.32940	**0.02129**	2.50740	**0.06909**
sg13g2_sdfrbp_2	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.01646**	0.32940	**0.02100**	2.50740	**0.06889**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.03252**	0.32940	**0.03712**	2.50740	**0.08665**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.02998**	0.32940	**0.03494**	2.50740	**0.08390**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01674**	0.32940	**0.02129**	2.50740	**0.06908**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01646**	0.32940	**0.02100**	2.50740	**0.06889**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01313**	0.32940	**0.01767**	2.50740	**0.06543**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01673**	0.32940	**0.02129**	2.50740	**0.06908**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.03265**	0.32940	**0.03538**	2.50740	**0.07145**
sg13g2_sdfrbp_2	0.01860	**0.03262**	0.32940	**0.03535**	2.50740	**0.07142**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.03291**	0.32940	**0.03682**	2.50740	**0.07541**
sg13g2_sdfrbp_2	0.01860	**0.03289**	0.32940	**0.03682**	2.50740	**0.07541**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03265**	0.32940	**0.03538**	2.50740	**0.07145**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03262**	0.32940	**0.03535**	2.50740	**0.07142**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03291**	0.32940	**0.03682**	2.50740	**0.07541**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.03289**	0.32940	**0.03682**	2.50740	**0.07541**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.03291**	0.32940	**0.03554**	2.50740	**0.07169**
sg13g2_sdfrbp_2	0.01860	**0.03287**	0.32940	**0.03551**	2.50740	**0.07166**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02813**	0.32940	**0.03203**	2.50740	**0.07077**
sg13g2_sdfrbp_2	0.01860	**0.02806**	0.32940	**0.03204**	2.50740	**0.07078**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.03291**	0.32940	**0.03554**	2.50740	**0.07169**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.03287**	0.32940	**0.03551**	2.50740	**0.07166**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.02813**	0.32940	**0.03203**	2.50740	**0.07077**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.02806**	0.32940	**0.03204**	2.50740	**0.07078**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.03971**	0.32940	**0.04461**	2.50740	**0.11134**
sg13g2_sdfrbp_2	0.01860	**0.03968**	0.32940	**0.04457**	2.50740	**0.11132**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.05055**	0.32940	**0.07101**	2.50740	**0.14005**
sg13g2_sdfrbp_2	0.01860	**0.05053**	0.32940	**0.07099**	2.50740	**0.13995**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.03575**	0.32940	**0.03836**	2.50740	**0.07097**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03971**	0.32940	**0.04461**	2.50740	**0.11134**
sg13g2_sdfrbp_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.03580**	0.32940	**0.03836**	2.50740	**0.07098**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03968**	0.32940	**0.04457**	2.50740	**0.11132**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.04084**	0.32940	**0.04390**	2.50740	**0.07755**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.05055**	0.32940	**0.07101**	2.50740	**0.14005**
sg13g2_sdfrbp_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.04078**	0.32940	**0.04387**	2.50740	**0.07752**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.05053**	0.32940	**0.07099**	2.50740	**0.13995**

SIGHOLD

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	0.02149	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	262.39200	528.87800	795.36500

Passive Power Information

Passive power(pJ) for SH rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.00821**	0.32940	**0.01935**	2.50740	**0.10754**

Passive power(pJ) for SH falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.00658**	0.32940	**0.01661**	2.50740	**0.12019**

SLGCP

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

Truth Table

INPUT			OUTPUT
CLK	GATE	SCE	GCLK
0	x	x	0
1	x	x	GCLK

Footprint

Cell Name	Area
sg13g2_slgcp_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	GATE	SCE	GCLK
sg13g2_slgcp_1	0.00529	0.00204	0.00246	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	1101.32000	1198.65000	1290.33000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.05083**	0.32940	0.06480	**0.22998**	2.50740	0.30000	**0.82321**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.04334**	0.32940	0.06480	**0.21713**	2.50740	0.30000	**0.75675**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.15991**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06699**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02836**	1.26300	1.26300	**-0.11752**	2.50740	2.50740	**-0.15991**
	setup	**CLK (R)**	0.01860	0.01860	**0.04366**	1.26300	1.26300	**0.16836**	2.50740	2.50740	**0.23743**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04377**	1.26300	1.26300	**-0.16831**	2.50740	2.50740	**-0.26710**
	setup	**CLK (R)**	0.01860	0.01860	**0.07640**	1.26300	1.26300	**0.20023**	2.50740	2.50740	**0.30283**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02922**	1.26300	1.26300	**-0.14563**	2.50740	2.50740	**-0.20612**
	setup	**CLK (R)**	0.01860	0.01860	**0.05004**	1.26300	1.26300	**0.19380**	2.50740	2.50740	**0.28082**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.05062**	1.26300	1.26300	**-0.13149**	2.50740	2.50740	**-0.19940**
	setup	**CLK (R)**	0.01860	0.01860	**0.07999**	1.26300	1.26300	**0.15876**	2.50740	2.50740	**0.23393**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.01458**	0.32940	0.06480	**0.01645**	2.50740	0.30000	**0.04657**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.00957**	0.32940	0.06480	**0.01337**	2.50740	0.30000	**0.04515**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01079**	0.32940	**0.01435**	2.50740	**0.05368**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01093**	0.32940	**0.01506**	2.50740	**0.05634**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.02955**	0.32940	**0.03260**	2.50740	**0.06261**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.03033**	0.32940	**0.05033**	2.50740	**0.08133**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.02955**	0.32940	**0.03260**	2.50740	**0.06261**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.03033**	0.32940	**0.05033**	2.50740	**0.08133**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01610**	0.32940	**0.01838**	2.50740	**0.04960**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.03164**	0.32940	**0.04857**	2.50740	**0.07905**

TIEHI

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	238.39200	238.39200	238.39200

TIELO

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	266.16100	266.16100	266.16100

XNOR2

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	0.00601	0.00532	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	276.72200	577.48300	766.94200

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-R)	0.01860	0.00100	**0.03895**	0.32940	0.06480	**0.38472**	2.50740	0.30000	**1.90024**
	B->Y (-R)	0.01860	0.00100	**0.03398**	0.32940	0.06480	**0.41685**	2.50740	0.30000	**2.15897**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-F)	0.01860	0.00100	**0.03369**	0.32940	0.06480	**0.31438**	2.50740	0.30000	**1.60046**
	B->Y (-F)	0.01860	0.00100	**0.02872**	0.32940	0.06480	**0.30819**	2.50740	0.30000	**1.58976**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (RR)	B	0.01860	0.00100	**0.04963**	0.32940	0.06480	**0.22975**	2.50740	0.30000	**0.82063**
	A->Y (FR)	!B	0.01860	0.00100	**0.03895**	0.32940	0.06480	**0.38472**	2.50740	0.30000	**1.90024**
	B->Y (RR)	A	0.01860	0.00100	**0.04660**	0.32940	0.06480	**0.23197**	2.50740	0.30000	**0.84386**
	B->Y (FR)	!A	0.01860	0.00100	**0.03398**	0.32940	0.06480	**0.41685**	2.50740	0.30000	**2.15897**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (FF)	B	0.01860	0.00100	**0.05025**	0.32940	0.06480	**0.29400**	2.50740	0.30000	**1.08917**
	A->Y (RF)	!B	0.01860	0.00100	**0.03369**	0.32940	0.06480	**0.31438**	2.50740	0.30000	**1.60046**
	B->Y (FF)	A	0.01860	0.00100	**0.05019**	0.32940	0.06480	**0.28368**	2.50740	0.30000	**1.05970**
	B->Y (RF)	!A	0.01860	0.00100	**0.02872**	0.32940	0.06480	**0.30819**	2.50740	0.30000	**1.58976**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.01224**	0.32940	0.06480	**0.01461**	2.50740	0.30000	**0.04497**
	B	0.01860	0.00100	**0.01251**	0.32940	0.06480	**0.01527**	2.50740	0.30000	**0.04670**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.01092**	0.32940	0.06480	**0.01439**	2.50740	0.30000	**0.04643**
	B	0.01860	0.00100	**0.01157**	0.32940	0.06480	**0.01310**	2.50740	0.30000	**0.04527**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.01224**	0.32940	0.06480	**0.01461**	2.50740	0.30000	**0.04497**
	A	!B	0.01860	0.00100	**0.00773**	0.32940	0.06480	**0.00816**	2.50740	0.30000	**0.01910**
	B	A	0.01860	0.00100	**0.01251**	0.32940	0.06480	**0.01527**	2.50740	0.30000	**0.04670**
	B	!A	0.01860	0.00100	**0.00502**	0.32940	0.06480	**0.00619**	2.50740	0.30000	**0.01723**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.01092**	0.32940	0.06480	**0.01439**	2.50740	0.30000	**0.04643**
	A	!B	0.01860	0.00100	**0.00766**	0.32940	0.06480	**0.00800**	2.50740	0.30000	**0.01775**
	B	A	0.01860	0.00100	**0.01157**	0.32940	0.06480	**0.01310**	2.50740	0.30000	**0.04527**
	B	!A	0.01860	0.00100	**0.00622**	0.32940	0.06480	**0.00699**	2.50740	0.30000	**0.01622**

XOR2

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	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00613	0.00536	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	427.65100	522.92700	652.78600

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-R)	0.01860	0.00100	**0.04198**	0.32940	0.06480	**0.38883**	2.50740	0.30000	**1.90683**
	B->X (-R)	0.01860	0.00100	**0.03542**	0.32940	0.06480	**0.38161**	2.50740	0.30000	**1.89418**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-F)	0.01860	0.00100	**0.03115**	0.32940	0.06480	**0.31145**	2.50740	0.30000	**1.59305**
	B->X (-F)	0.01860	0.00100	**0.02787**	0.32940	0.06480	**0.33672**	2.50740	0.30000	**1.76908**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (RR)	!B	0.01860	0.00100	**0.05120**	0.32940	0.06480	**0.36793**	2.50740	0.30000	**1.42882**
	A->X (FR)	B	0.01860	0.00100	**0.04198**	0.32940	0.06480	**0.38883**	2.50740	0.30000	**1.90683**
	B->X (RR)	!A	0.01860	0.00100	**0.05290**	0.32940	0.06480	**0.35696**	2.50740	0.30000	**1.38261**
	B->X (FR)	A	0.01860	0.00100	**0.03542**	0.32940	0.06480	**0.38161**	2.50740	0.30000	**1.89418**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (FF)	!B	0.01860	0.00100	**0.05943**	0.32940	0.06480	**0.22143**	2.50740	0.30000	**0.74133**
	A->X (RF)	B	0.01860	0.00100	**0.03115**	0.32940	0.06480	**0.31145**	2.50740	0.30000	**1.59305**
	B->X (FF)	!A	0.01860	0.00100	**0.05486**	0.32940	0.06480	**0.23009**	2.50740	0.30000	**0.78453**
	B->X (RF)	A	0.01860	0.00100	**0.02787**	0.32940	0.06480	**0.33672**	2.50740	0.30000	**1.76908**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.01072**	0.32940	0.06480	**0.01350**	2.50740	0.30000	**0.04395**
	B	0.01860	0.00100	**0.01149**	0.32940	0.06480	**0.01277**	2.50740	0.30000	**0.04256**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.01342**	0.32940	0.06480	**0.01581**	2.50740	0.30000	**0.04622**
	B	0.01860	0.00100	**0.01236**	0.32940	0.06480	**0.01543**	2.50740	0.30000	**0.04564**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.00817**	0.32940	0.06480	**0.00849**	2.50740	0.30000	**0.01904**
	A	!B	0.01860	0.00100	**0.01072**	0.32940	0.06480	**0.01350**	2.50740	0.30000	**0.04395**
	B	A	0.01860	0.00100	**0.00640**	0.32940	0.06480	**0.00697**	2.50740	0.30000	**0.01728**
	B	!A	0.01860	0.00100	**0.01149**	0.32940	0.06480	**0.01277**	2.50740	0.30000	**0.04256**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.00765**	0.32940	0.06480	**0.00781**	2.50740	0.30000	**0.01769**
	A	!B	0.01860	0.00100	**0.01342**	0.32940	0.06480	**0.01581**	2.50740	0.30000	**0.04622**
	B	A	0.01860	0.00100	**0.00614**	0.32940	0.06480	**0.00687**	2.50740	0.30000	**0.01726**
	B	!A	0.01860	0.00100	**0.01236**	0.32940	0.06480	**0.01543**	2.50740	0.30000	**0.04564**