sg13g2_stdcell_typ_1p20V_25C Library

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

MUX4
NAND2B1
NAND2
NAND3B1
NOR2
NOR3
NOR4
NP_ANT
OR2
OR3
OR4
SDFRRS
SGCLK
TIE0
TIE1
XNOR2_1
XOR2_1

AND2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and2_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_1	0.00238	0.00230	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	117.08700	137.63200	177.26200

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.06342**	0.32940	0.06480	**0.33923**	2.50740	0.30000	**1.21319**
	B->X (RR)	0.01860	0.00100	**0.06847**	0.32940	0.06480	**0.34277**	2.50740	0.30000	**1.22116**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.05470**	0.32940	0.06480	**0.29752**	2.50740	0.30000	**1.01794**
	B->X (FF)	0.01860	0.00100	**0.05979**	0.32940	0.06480	**0.31146**	2.50740	0.30000	**1.05291**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A	0.01860	0.00100	**0.00631**	0.32940	0.06480	**0.00649**	2.50740	0.30000	**0.01280**
	B	0.01860	0.00100	**0.00767**	0.32940	0.06480	**0.00758**	2.50740	0.30000	**0.01220**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A	0.01860	0.00100	**0.00552**	0.32940	0.06480	**0.00582**	2.50740	0.30000	**0.01287**
	B	0.01860	0.00100	**0.00570**	0.32940	0.06480	**0.00596**	2.50740	0.30000	**0.01287**

AND3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and3_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_1	0.00238	0.00227	0.00228	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	119.04700	146.63600	244.02000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.08644**	0.32940	0.06480	**0.37520**	2.50740	0.30000	**1.28647**
	B->X (RR)	0.01860	0.00100	**0.09584**	0.32940	0.06480	**0.38400**	2.50740	0.30000	**1.30328**
	C->X (RR)	0.01860	0.00100	**0.09996**	0.32940	0.06480	**0.38078**	2.50740	0.30000	**1.28164**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.05861**	0.32940	0.06480	**0.30675**	2.50740	0.30000	**1.03264**
	B->X (FF)	0.01860	0.00100	**0.06394**	0.32940	0.06480	**0.32042**	2.50740	0.30000	**1.06309**
	C->X (FF)	0.01860	0.00100	**0.06731**	0.32940	0.06480	**0.33114**	2.50740	0.30000	**1.09892**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A	0.01860	0.00100	**0.00723**	0.32940	0.06480	**0.00739**	2.50740	0.30000	**0.01282**
	B	0.01860	0.00100	**0.00855**	0.32940	0.06480	**0.00862**	2.50740	0.30000	**0.01344**
	C	0.01860	0.00100	**0.00985**	0.32940	0.06480	**0.00977**	2.50740	0.30000	**0.01390**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A	0.01860	0.00100	**0.00557**	0.32940	0.06480	**0.00570**	2.50740	0.30000	**0.01335**
	B	0.01860	0.00100	**0.00583**	0.32940	0.06480	**0.00597**	2.50740	0.30000	**0.01198**
	C	0.01860	0.00100	**0.00597**	0.32940	0.06480	**0.00620**	2.50740	0.30000	**0.01329**

AND4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_1	0.00205	0.00198	0.00229	0.00229	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	121.24000	151.90200	310.92300

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.11089**	0.32940	0.06480	**0.41070**	2.50740	0.30000	**1.35548**
	B->X (RR)	0.01860	0.00100	**0.12417**	0.32940	0.06480	**0.42159**	2.50740	0.30000	**1.37772**
	C->X (RR)	0.01860	0.00100	**0.13175**	0.32940	0.06480	**0.42292**	2.50740	0.30000	**1.36044**
	D->X (RR)	0.01860	0.00100	**0.13590**	0.32940	0.06480	**0.42256**	2.50740	0.30000	**1.33348**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.06195**	0.32940	0.06480	**0.31324**	2.50740	0.30000	**1.03869**
	B->X (FF)	0.01860	0.00100	**0.06725**	0.32940	0.06480	**0.32595**	2.50740	0.30000	**1.07212**
	C->X (FF)	0.01860	0.00100	**0.07100**	0.32940	0.06480	**0.33623**	2.50740	0.30000	**1.10058**
	D->X (FF)	0.01860	0.00100	**0.07363**	0.32940	0.06480	**0.34464**	2.50740	0.30000	**1.13177**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A	0.01860	0.00100	**0.00820**	0.32940	0.06480	**0.00822**	2.50740	0.30000	**0.01326**
	B	0.01860	0.00100	**0.00984**	0.32940	0.06480	**0.00969**	2.50740	0.30000	**0.01469**
	C	0.01860	0.00100	**0.01060**	0.32940	0.06480	**0.01038**	2.50740	0.30000	**0.01458**
	D	0.01860	0.00100	**0.01044**	0.32940	0.06480	**0.01023**	2.50740	0.30000	**0.01425**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A	0.01860	0.00100	**0.00500**	0.32940	0.06480	**0.00508**	2.50740	0.30000	**0.01224**
	B	0.01860	0.00100	**0.00527**	0.32940	0.06480	**0.00530**	2.50740	0.30000	**0.01126**
	C	0.01860	0.00100	**0.00624**	0.32940	0.06480	**0.00635**	2.50740	0.30000	**0.01233**
	D	0.01860	0.00100	**0.00629**	0.32940	0.06480	**0.00637**	2.50740	0.30000	**0.01198**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00030**	0.32940	**-0.00030**	2.50740	**-0.00029**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00100**	0.32940	**0.00102**	2.50740	**0.00102**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**-0.00030**	0.32940	**-0.00030**	2.50740	**-0.00029**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(B * C * !D) + (B * !C)	0.01860	**0.00100**	0.32940	**0.00102**	2.50740	**0.00102**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00052**	0.32940	**-0.00053**	2.50740	**-0.00053**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00083**	0.32940	**0.00085**	2.50740	**0.00085**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * C * !D) + (A * !C)	0.01860	**-0.00052**	0.32940	**-0.00053**	2.50740	**-0.00053**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * C * !D) + (A * !C)	0.01860	**0.00083**	0.32940	**0.00085**	2.50740	**0.00085**

Passive power(pJ) for C rising :

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

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00002**	0.32940	**-0.00001**	2.50740	**-0.00001**

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

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

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * !B * D) + (!A * D)	0.01860	**-0.00002**	0.32940	**-0.00001**	2.50740	**-0.00001**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00145**	0.32940	**0.00147**	2.50740	**0.00146**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00009**	0.32940	**0.00008**	2.50740	**0.00008**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * !B * C) + (!A * C)	0.01860	**0.00145**	0.32940	**0.00147**	2.50740	**0.00146**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00009**	0.32940	**0.00008**	2.50740	**0.00008**

AO21

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21o_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_1	0.00253	0.00263	0.00229	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	127.41400	158.31400	178.00700

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.07779**	0.32940	0.06480	**0.36989**	2.50740	0.30000	**1.29500**
	A2->X (RR)	0.01860	0.00100	**0.08212**	0.32940	0.06480	**0.36892**	2.50740	0.30000	**1.29717**
	B1->X (RR)	0.01860	0.00100	**0.05014**	0.32940	0.06480	**0.32967**	2.50740	0.30000	**1.20870**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.08993**	0.32940	0.06480	**0.33674**	2.50740	0.30000	**1.06430**
	A2->X (FF)	0.01860	0.00100	**0.09850**	0.32940	0.06480	**0.35173**	2.50740	0.30000	**1.09604**
	B1->X (FF)	0.01860	0.00100	**0.08811**	0.32940	0.06480	**0.34621**	2.50740	0.30000	**1.10800**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.05014**	0.32940	0.06480	**0.32967**	2.50740	0.30000	**1.20870**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.04704**	0.32940	0.06480	**0.31611**	2.50740	0.30000	**1.16371**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.08811**	0.32940	0.06480	**0.34621**	2.50740	0.30000	**1.10800**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.07800**	0.32940	0.06480	**0.32765**	2.50740	0.30000	**1.06718**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00709**	0.32940	0.06480	**0.00717**	2.50740	0.30000	**0.01337**
	A2	0.01860	0.00100	**0.00845**	0.32940	0.06480	**0.00840**	2.50740	0.30000	**0.01364**
	B1	0.01860	0.00100	**0.00547**	0.32940	0.06480	**0.00545**	2.50740	0.30000	**0.01211**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00798**	0.32940	0.06480	**0.00798**	2.50740	0.30000	**0.01378**
	A2	0.01860	0.00100	**0.00799**	0.32940	0.06480	**0.00814**	2.50740	0.30000	**0.01308**
	B1	0.01860	0.00100	**0.00546**	0.32940	0.06480	**0.00588**	2.50740	0.30000	**0.01357**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00686**	0.32940	0.06480	**0.00704**	2.50740	0.30000	**0.01357**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00547**	0.32940	0.06480	**0.00545**	2.50740	0.30000	**0.01211**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00558**	0.32940	0.06480	**0.00589**	2.50740	0.30000	**0.01272**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00546**	0.32940	0.06480	**0.00588**	2.50740	0.30000	**0.01357**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**-0.00015**	0.32940	**-0.00013**	2.50740	**-0.00012**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00016**	0.32940	**0.00015**	2.50740	**0.00015**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**0.00003**	0.32940	**-0.00012**	2.50740	**-0.00017**
	(!A2 * B1)	0.01860	**-0.00015**	0.32940	**-0.00013**	2.50740	**-0.00012**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**0.00041**	0.32940	**0.00041**	2.50740	**0.00040**
	(!A2 * B1)	0.01860	**0.00016**	0.32940	**0.00015**	2.50740	**0.00015**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**-0.00007**	0.32940	**-0.00007**	2.50740	**-0.00007**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00010**	0.32940	**0.00010**	2.50740	**0.00010**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00009**	0.32940	**-0.00007**	2.50740	**-0.00012**
	(!A1 * B1)	0.01860	**-0.00007**	0.32940	**-0.00007**	2.50740	**-0.00007**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00035**	0.32940	**0.00036**	2.50740	**0.00035**
	(!A1 * B1)	0.01860	**0.00010**	0.32940	**0.00010**	2.50740	**0.00010**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00051**	0.32940	**0.00053**	2.50740	**0.00054**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00070**	0.32940	**0.00070**	2.50740	**0.00071**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00051**	0.32940	**0.00053**	2.50740	**0.00054**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00070**	0.32940	**0.00070**	2.50740	**0.00071**

BTLx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_ebufn_8	45.36000
sg13g2_ebufn_4	25.40160
sg13g2_ebufn_2	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_8	0.00562	0.01547	2.40000
sg13g2_ebufn_4	0.00292	0.00939	1.20000
sg13g2_ebufn_2	0.00248	0.00572	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	278.54000	689.88300	1153.55000
sg13g2_ebufn_4	180.47600	376.42700	598.53700
sg13g2_ebufn_2	138.43700	236.41300	331.23500

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.01883	**0.06342**	0.32940	0.53623	**0.57683**	2.50740	2.41783	**2.23983**
	TE_B->Z (RR)	0.01860	0.01883	**0.06336**	0.32940	0.53623	**0.17182**	2.50740	2.41783	**0.40494**
	TE_B->Z (FR)	0.01860	0.01883	**0.03556**	0.32940	0.53623	**0.52656**	2.50740	2.41783	**2.66213**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01000	**0.06505**	0.32940	0.26820	**0.57624**	2.50740	1.20900	**2.23542**
	TE_B->Z (RR)	0.01860	0.01000	**0.05036**	0.32940	0.26820	**0.13143**	2.50740	1.20900	**0.29284**
	TE_B->Z (FR)	0.01860	0.01000	**0.03562**	0.32940	0.26820	**0.52389**	2.50740	1.20900	**2.64970**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00557	**0.05659**	0.32940	0.13417	**0.54191**	2.50740	0.60457	**2.14454**
	TE_B->Z (RR)	0.01860	0.00557	**0.04381**	0.32940	0.13417	**0.11111**	2.50740	0.60457	**0.24122**
	TE_B->Z (FR)	0.01860	0.00557	**0.03566**	0.32940	0.13417	**0.52299**	2.50740	0.60457	**2.64844**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02953	**0.08570**	0.32940	0.54693	**0.48568**	2.50740	2.42853	**1.73128**
	TE_B->Z (RF)	0.01860	0.02953	**0.03738**	0.32940	0.54693	**-0.18886**	2.50740	2.42853	**-1.87540**
	TE_B->Z (FF)	0.01860	0.02953	**0.09151**	0.32940	0.54693	**0.55530**	2.50740	2.42853	**2.02952**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01550	**0.08794**	0.32940	0.27370	**0.48782**	2.50740	1.21450	**1.73520**
	TE_B->Z (RF)	0.01860	0.01550	**0.02858**	0.32940	0.27370	**-0.18813**	2.50740	1.21450	**-1.87455**
	TE_B->Z (FF)	0.01860	0.01550	**0.06896**	0.32940	0.27370	**0.50197**	2.50740	1.21450	**1.88483**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00841	**0.06628**	0.32940	0.13701	**0.44026**	2.50740	0.60741	**1.61358**
	TE_B->Z (RF)	0.01860	0.00841	**0.02010**	0.32940	0.13701	**-0.20550**	2.50740	0.60741	**-1.89186**
	TE_B->Z (FF)	0.01860	0.00841	**0.05817**	0.32940	0.13701	**0.46460**	2.50740	0.60741	**1.78660**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.01883	**0.03094**	0.32940	0.53623	**0.03934**	2.50740	2.41783	**0.03952**
	TE_B	0.01860	0.01883	**0.00585**	0.32940	0.53623	**0.00390**	2.50740	2.41783	**0.00161**
sg13g2_ebufn_4	A	0.01860	0.01000	**0.01556**	0.32940	0.26820	**0.01943**	2.50740	1.20900	**0.01773**
	TE_B	0.01860	0.01000	**0.00294**	0.32940	0.26820	**0.00187**	2.50740	1.20900	**-0.00105**
sg13g2_ebufn_2	A	0.01860	0.00557	**0.00814**	0.32940	0.13417	**0.00965**	2.50740	0.60457	**0.00879**
	TE_B	0.01860	0.00557	**0.00149**	0.32940	0.13417	**0.00104**	2.50740	0.60457	**-0.00018**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.02953	**0.03391**	0.32940	0.54693	**0.03460**	2.50740	2.42853	**0.02603**
	TE_B	0.01860	0.02953	**0.00511**	0.32940	0.54693	**0.03971**	2.50740	2.42853	**0.17354**
sg13g2_ebufn_4	A	0.01860	0.01550	**0.01708**	0.32940	0.27370	**0.01738**	2.50740	1.21450	**0.01327**
	TE_B	0.01860	0.01550	**0.00263**	0.32940	0.27370	**0.02024**	2.50740	1.21450	**0.08890**
sg13g2_ebufn_2	A	0.01860	0.00841	**0.00853**	0.32940	0.13701	**0.00874**	2.50740	0.60741	**0.00791**
	TE_B	0.01860	0.00841	**0.00138**	0.32940	0.13701	**0.01032**	2.50740	0.60741	**0.04325**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01103**	0.32940	**0.01141**	2.50740	**0.02843**
sg13g2_ebufn_4	0.01860	**0.00593**	0.32940	**0.00612**	2.50740	**0.01449**
sg13g2_ebufn_2	0.01860	**0.00349**	0.32940	**0.00377**	2.50740	**0.01134**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.00823**	0.32940	**0.00897**	2.50740	**0.02565**
sg13g2_ebufn_4	0.01860	**0.00433**	0.32940	**0.00466**	2.50740	**0.01291**
sg13g2_ebufn_2	0.01860	**0.00282**	0.32940	**0.00322**	2.50740	**0.01068**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**-0.00380**	0.32940	**-0.00491**	2.50740	**0.00168**
sg13g2_ebufn_4	0.01860	**-0.00085**	0.32940	**-0.00144**	2.50740	**0.00642**
sg13g2_ebufn_2	0.01860	**0.00011**	0.32940	**-0.00008**	2.50740	**0.00721**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.05082**	0.32940	**0.05177**	2.50740	**0.05889**
sg13g2_ebufn_4	0.01860	**0.02620**	0.32940	**0.02700**	2.50740	**0.03494**
sg13g2_ebufn_2	0.01860	**0.01374**	0.32940	**0.01430**	2.50740	**0.02169**

BUx

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_16	0.01682	4.80000
sg13g2_buf_8	0.00840	2.40000
sg13g2_buf_4	0.00357	1.20000
sg13g2_buf_2	0.00247	0.60000
sg13g2_buf_1	0.00212	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	1191.03000	1385.39000	1579.74000
sg13g2_buf_8	595.51800	692.69300	789.86900
sg13g2_buf_4	291.92700	337.35500	382.78200
sg13g2_buf_2	160.48500	181.52500	202.56500
sg13g2_buf_1	106.65100	110.32100	113.99100

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.05422**	0.32940	1.03680	**0.35308**	2.50740	4.80000	**1.27405**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.05344**	0.32940	0.51840	**0.35147**	2.50740	2.40000	**1.27183**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.06775**	0.32940	0.25920	**0.38518**	2.50740	1.20000	**1.39372**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.05307**	0.32940	0.12960	**0.34562**	2.50740	0.60000	**1.25903**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.04728**	0.32940	0.06480	**0.32075**	2.50740	0.30000	**1.19320**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.06277**	0.32940	1.03680	**0.33203**	2.50740	4.80000	**1.09971**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.06187**	0.32940	0.51840	**0.33112**	2.50740	2.40000	**1.09964**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.06088**	0.32940	0.25920	**0.32720**	2.50740	1.20000	**1.06015**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.05935**	0.32940	0.12960	**0.31839**	2.50740	0.60000	**1.06010**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.05160**	0.32940	0.06480	**0.28963**	2.50740	0.30000	**0.98894**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.07533**	0.32940	1.03680	**0.07819**	2.50740	4.80000	**0.11985**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.03647**	0.32940	0.51840	**0.03784**	2.50740	2.40000	**0.05855**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01762**	0.32940	0.25920	**0.01833**	2.50740	1.20000	**0.03112**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00951**	0.32940	0.12960	**0.00980**	2.50740	0.60000	**0.01572**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00554**	0.32940	0.06480	**0.00573**	2.50740	0.30000	**0.01176**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.07073**	0.32940	1.03680	**0.07547**	2.50740	4.80000	**0.13819**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.03491**	0.32940	0.51840	**0.03722**	2.50740	2.40000	**0.06132**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01752**	0.32940	0.25920	**0.01861**	2.50740	1.20000	**0.03004**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00918**	0.32940	0.12960	**0.00980**	2.50740	0.60000	**0.01845**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00559**	0.32940	0.06480	**0.00595**	2.50740	0.30000	**0.01204**

DECAPx

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

Footprint

Cell Name	Area
sg13g2_decap_4	7.25760
sg13g2_decap_8	12.70080

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_decap_4	395.59900	395.59900	395.59900
sg13g2_decap_8	791.19100	791.19100	791.19100

DFFRRx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_2	54.43200
sg13g2_dfrbp_1	47.17440

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	CLK	Q	Q_N
sg13g2_dfrbp_2	0.00135	0.00490	0.00273	0.60000	0.60000
sg13g2_dfrbp_1	0.00142	0.00543	0.00255	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	606.91700	685.69100	774.20100
sg13g2_dfrbp_1	459.16200	538.56200	621.78000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.23479**	0.32940	0.12960	**0.50741**	2.50740	0.60000	**1.41875**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.18201**	0.32940	0.06480	**0.45768**	2.50740	0.30000	**1.34353**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.20090**	0.32940	0.12960	**0.44710**	2.50740	0.60000	**1.18725**
	RESET_B->Q (FF)	0.01860	0.00100	**0.27154**	0.32940	0.12960	**0.55295**	2.50740	0.60000	**1.45948**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.17205**	0.32940	0.06480	**0.41578**	2.50740	0.30000	**1.13808**
	RESET_B->Q (FF)	0.01860	0.00100	**0.23514**	0.32940	0.06480	**0.51325**	2.50740	0.30000	**1.40038**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.13219**	0.32940	0.12960	**0.44471**	2.50740	0.60000	**1.31668**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.20435**	0.32940	0.12960	**0.54915**	2.50740	0.60000	**1.58662**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.13022**	0.32940	0.06480	**0.43008**	2.50740	0.30000	**1.28433**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.19388**	0.32940	0.06480	**0.52563**	2.50740	0.30000	**1.54626**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.15105**	0.32940	0.12960	**0.46202**	2.50740	0.60000	**1.24303**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.13539**	0.32940	0.06480	**0.42105**	2.50740	0.30000	**1.18300**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.18349**	2.50740	2.50740	**-0.24498**
	setup	**CLK (R)**	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.26444**	2.50740	2.50740	**0.32172**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.27154**
	setup	**CLK (R)**	0.01860	0.01860	**0.11492**	1.26300	1.26300	**0.26714**	2.50740	2.50740	**0.33943**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02201**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.22432**
	setup	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.25904**	2.50740	2.50740	**0.35123**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02201**	1.26300	1.26300	**-0.13762**	2.50740	2.50740	**-0.22137**
	setup	**CLK (R)**	0.01860	0.01860	**0.11492**	1.26300	1.26300	**0.25904**	2.50740	2.50740	**0.35714**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.28603**	2.50740	2.50740	**0.39551**
	removal	**CLK (R)**	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.37484**
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.12226**	1.26300	1.26300	**0.29412**	2.50740	2.50740	**0.41321**
	removal	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.38370**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dfrbp_2	-	3.3435
sg13g2_dfrbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_dfrbp_2	3.3435	3.3435
sg13g2_dfrbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03575**	0.32940	0.12960	**0.12953**	2.50740	0.60000	**0.48065**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02813**	0.32940	0.06480	**0.07470**	2.50740	0.30000	**0.25485**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03616**	0.32940	0.12960	**0.13006**	2.50740	0.60000	**0.47697**
	RESET_B	0.01860	0.00100	**0.02768**	0.32940	0.12960	**0.12118**	2.50740	0.60000	**0.46224**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02751**	0.32940	0.06480	**0.07421**	2.50740	0.30000	**0.25319**
	RESET_B	0.01860	0.00100	**0.01904**	0.32940	0.06480	**0.06534**	2.50740	0.30000	**0.23809**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03618**	0.32940	0.12960	**0.13056**	2.50740	0.60000	**0.48044**
	RESET_B	0.01860	0.00100	**0.02774**	0.32940	0.12960	**0.12183**	2.50740	0.60000	**0.46617**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02751**	0.32940	0.06480	**0.07451**	2.50740	0.30000	**0.25313**
	RESET_B	0.01860	0.00100	**0.01905**	0.32940	0.06480	**0.06571**	2.50740	0.30000	**0.24013**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03576**	0.32940	0.12960	**0.12891**	2.50740	0.60000	**0.47524**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02812**	0.32940	0.06480	**0.07442**	2.50740	0.30000	**0.25218**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00144**	0.32940	**0.00154**	2.50740	**0.00486**
sg13g2_dfrbp_1	0.01860	**0.00152**	0.32940	**0.00161**	2.50740	**0.00490**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00136**	0.32940	**0.00147**	2.50740	**0.00479**
sg13g2_dfrbp_1	0.01860	**0.00148**	0.32940	**0.00158**	2.50740	**0.00491**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00144**	0.32940	**0.00154**	2.50740	**0.00486**
	(!CLK * RESET_B)	0.01860	**0.01100**	0.32940	**0.01102**	2.50740	**0.01445**
	(!CLK * !RESET_B)	0.01860	**-0.00021**	0.32940	**-0.00022**	2.50740	**-0.00022**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00152**	0.32940	**0.00161**	2.50740	**0.00490**
	(!CLK * RESET_B)	0.01860	**0.00957**	0.32940	**0.00963**	2.50740	**0.01312**
	(!CLK * !RESET_B)	0.01860	**-0.00013**	0.32940	**-0.00014**	2.50740	**-0.00014**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00136**	0.32940	**0.00147**	2.50740	**0.00479**
	(!CLK * RESET_B)	0.01860	**0.00881**	0.32940	**0.00879**	2.50740	**0.01244**
	(!CLK * !RESET_B)	0.01860	**0.00039**	0.32940	**0.00041**	2.50740	**0.00041**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00148**	0.32940	**0.00158**	2.50740	**0.00491**
	(!CLK * RESET_B)	0.01860	**0.00802**	0.32940	**0.00804**	2.50740	**0.01167**
	(!CLK * !RESET_B)	0.01860	**0.00034**	0.32940	**0.00036**	2.50740	**0.00036**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00361**	0.32940	**0.00351**	2.50740	**0.00615**
sg13g2_dfrbp_1	0.01860	**0.00400**	0.32940	**0.00391**	2.50740	**0.00650**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00904**	0.32940	**0.00860**	2.50740	**0.01290**
sg13g2_dfrbp_1	0.01860	**0.00789**	0.32940	**0.00743**	2.50740	**0.01180**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00361**	0.32940	**0.00351**	2.50740	**0.00615**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00107**	0.32940	**0.00103**	2.50740	**0.00103**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01332**	0.32940	**0.01302**	2.50740	**0.01679**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00114**	0.32940	**0.00110**	2.50740	**0.00110**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00400**	0.32940	**0.00391**	2.50740	**0.00650**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00146**	0.32940	**0.00142**	2.50740	**0.00142**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01222**	0.32940	**0.01199**	2.50740	**0.01576**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00153**	0.32940	**0.00149**	2.50740	**0.00149**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.03624**	0.32940	**0.03562**	2.50740	**0.04445**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00055**	0.32940	**-0.00071**	2.50740	**-0.00078**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00904**	0.32940	**0.00860**	2.50740	**0.01290**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00069**	0.32940	**-0.00079**	2.50740	**-0.00084**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.02623**	0.32940	**0.02568**	2.50740	**0.03441**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00092**	0.32940	**-0.00109**	2.50740	**-0.00116**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00789**	0.32940	**0.00743**	2.50740	**0.01180**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00100**	0.32940	**-0.00114**	2.50740	**-0.00119**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01028**	0.32940	**0.01036**	2.50740	**0.01912**
sg13g2_dfrbp_1	0.01860	**0.01004**	0.32940	**0.01011**	2.50740	**0.01832**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01940**	0.32940	**0.01938**	2.50740	**0.02832**
sg13g2_dfrbp_1	0.01860	**0.01733**	0.32940	**0.01731**	2.50740	**0.02577**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.01028**	0.32940	**0.01036**	2.50740	**0.01912**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01079**	0.32940	**0.01087**	2.50740	**0.01961**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01012**	0.32940	**0.01020**	2.50740	**0.01894**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01081**	0.32940	**0.01089**	2.50740	**0.01961**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01033**	0.32940	**0.01037**	2.50740	**0.01866**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01003**	0.32940	**0.01011**	2.50740	**0.01833**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00987**	0.32940	**0.00993**	2.50740	**0.01817**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01004**	0.32940	**0.01011**	2.50740	**0.01832**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.01955**	0.32940	**0.01951**	2.50740	**0.02844**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.01940**	0.32940	**0.01938**	2.50740	**0.02832**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01007**	0.32940	**0.01017**	2.50740	**0.01883**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00343**	0.32940	**0.04399**	2.50740	**0.05263**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01007**	0.32940	**0.01018**	2.50740	**0.01883**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01006**	0.32940	**0.01015**	2.50740	**0.01881**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01750**	0.32940	**0.01744**	2.50740	**0.02593**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.01733**	0.32940	**0.01731**	2.50740	**0.02577**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00953**	0.32940	**0.00968**	2.50740	**0.01786**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00314**	0.32940	**0.03489**	2.50740	**0.04299**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00953**	0.32940	**0.00968**	2.50740	**0.01787**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00952**	0.32940	**0.00966**	2.50740	**0.01785**

DLHQ

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, 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	0.00211	0.00215	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	339.70600	365.91500	417.21300

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.16905**	0.32940	0.06480	**0.43948**	2.50740	0.30000	**1.29203**
	GATE->Q (RR)	0.01860	0.00100	**0.14289**	0.32940	0.06480	**0.41451**	2.50740	0.30000	**1.24942**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.15017**	0.32940	0.06480	**0.38488**	2.50740	0.30000	**1.06325**
	GATE->Q (RF)	0.01860	0.00100	**0.15160**	0.32940	0.06480	**0.39013**	2.50740	0.30000	**1.06917**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.09047**	1.26300	1.26300	**-0.22936**	2.50740	2.50740	**-0.28630**
	setup	GATE (F)	0.01860	0.01860	**0.10025**	1.26300	1.26300	**0.29142**	2.50740	2.50740	**0.38370**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.03668**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**0.02361**
	setup	GATE (F)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.01619**	2.50740	2.50740	**-0.01181**

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01402**	0.32940	0.06480	**0.01425**	2.50740	0.30000	**0.01442**
	GATE	0.01860	0.00100	**0.01185**	0.32940	0.06480	**0.01186**	2.50740	0.30000	**0.01213**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01454**	0.32940	0.06480	**0.01488**	2.50740	0.30000	**0.01611**
	GATE	0.01860	0.00100	**0.01289**	0.32940	0.06480	**0.01343**	2.50740	0.30000	**0.01522**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00351**	0.32940	**0.00365**	2.50740	**0.00976**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00359**	0.32940	**0.00376**	2.50740	**0.00975**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00361**	0.32940	**0.00367**	2.50740	**0.00976**
	(!GATE * !Q)	0.01860	**0.00351**	0.32940	**0.00365**	2.50740	**0.00976**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00336**	0.32940	**0.00361**	2.50740	**0.00962**
	(!GATE * !Q)	0.01860	**0.00359**	0.32940	**0.00376**	2.50740	**0.00975**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00766**	0.32940	**0.00776**	2.50740	**0.01535**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00302**	0.32940	**0.01439**	2.50740	**0.02211**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.00766**	0.32940	**0.00776**	2.50740	**0.01535**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.00302**	0.32940	**0.01439**	2.50740	**0.02211**

DLHRQ

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhrq_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	RESET_B	GATE	Q
sg13g2_dlhrq_1	0.00195	0.00269	0.00206	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	350.18100	400.52200	438.96900

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.17649**	0.32940	0.06480	**0.45069**	2.50740	0.30000	**1.29921**
	GATE->Q (RR)	0.01860	0.00100	**0.15684**	0.32940	0.06480	**0.43340**	2.50740	0.30000	**1.26519**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.15668**	0.32940	0.06480	**0.39149**	2.50740	0.30000	**1.07039**
	GATE->Q (RF)	0.01860	0.00100	**0.15851**	0.32940	0.06480	**0.39942**	2.50740	0.30000	**1.08089**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06215**	0.32940	0.06480	**0.31780**	2.50740	0.30000	**1.06915**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.07580**	1.26300	1.26300	**-0.20777**	2.50740	2.50740	**-0.25678**
	setup	GATE (F)	0.01860	0.01860	**0.09781**	1.26300	1.26300	**0.27254**	2.50740	2.50740	**0.36009**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**0.02361**
	setup	GATE (F)	0.01860	0.01860	**0.05624**	1.26300	1.26300	**0.01619**	2.50740	2.50740	**-0.01181**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.00734**	1.26300	1.26300	**-0.08095**	2.50740	2.50740	**-0.11511**
	removal	GATE (F)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**0.11603**	2.50740	2.50740	**0.15348**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhrq_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhrq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00183**	0.32940	0.06480	**0.00133**	2.50740	0.30000	**0.00174**
	GATE	0.01860	0.00100	**0.01203**	0.32940	0.06480	**0.01206**	2.50740	0.30000	**0.01246**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00602**	0.32940	0.06480	**-0.00133**	2.50740	0.30000	**-0.00174**
	GATE	0.01860	0.00100	**0.01172**	0.32940	0.06480	**0.01230**	2.50740	0.30000	**0.01307**
	RESET_B	0.01860	0.00100	**0.00671**	0.32940	0.06480	**0.00712**	2.50740	0.30000	**0.01517**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01568**	0.32940	**0.01653**	2.50740	**0.02246**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01059**	0.32940	**0.02340**	2.50740	**0.02938**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00332**	0.32940	**0.00345**	2.50740	**0.00954**
	!RESET_B	0.01860	**0.01568**	0.32940	**0.01653**	2.50740	**0.02246**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00355**	0.32940	**0.00381**	2.50740	**0.00983**
	!RESET_B	0.01860	**0.01059**	0.32940	**0.02340**	2.50740	**0.02938**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**-0.00018**	0.32940	**-0.00015**	2.50740	**-0.00011**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00024**	0.32940	**0.00015**	2.50740	**0.00011**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**-0.00005**	0.32940	**-0.00008**	2.50740	**-0.00008**
	(!D * !GATE * !Q)	0.01860	**-0.00018**	0.32940	**-0.00015**	2.50740	**-0.00011**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00036**	0.32940	**0.00027**	2.50740	**0.00023**
	(!D * !GATE * !Q)	0.01860	**0.00024**	0.32940	**0.00015**	2.50740	**0.00011**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00790**	0.32940	**0.00799**	2.50740	**0.01556**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00297**	0.32940	**0.01424**	2.50740	**0.02194**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01041**	0.32940	**0.01033**	2.50740	**0.01839**
	(!D * !RESET_B * !Q)	0.01860	**0.00790**	0.32940	**0.00799**	2.50740	**0.01556**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01127**	0.32940	**0.01146**	2.50740	**0.01964**
	(!D * RESET_B * !Q)	0.01860	**0.00297**	0.32940	**0.01424**	2.50740	**0.02194**
	(!D * !RESET_B * !Q)	0.01860	**0.00302**	0.32940	**0.01434**	2.50740	**0.02199**

DLHR

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE	Q	Q_N
sg13g2_dlhr_1	0.00197	0.00284	0.00213	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	461.78900	512.40300	562.21800

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.19114**	0.32940	0.06480	**0.47167**	2.50740	0.30000	**1.31897**
	GATE->Q (RR)	0.01860	0.00100	**0.17243**	0.32940	0.06480	**0.45641**	2.50740	0.30000	**1.29172**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.16321**	0.32940	0.06480	**0.40104**	2.50740	0.30000	**1.07390**
	GATE->Q (RF)	0.01860	0.00100	**0.16501**	0.32940	0.06480	**0.40942**	2.50740	0.30000	**1.08638**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06758**	0.32940	0.06480	**0.33652**	2.50740	0.30000	**1.11142**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.19988**	0.32940	0.06480	**0.45997**	2.50740	0.30000	**1.26479**
	GATE->Q_N (RR)	0.01860	0.00100	**0.20189**	0.32940	0.06480	**0.46813**	2.50740	0.30000	**1.27793**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10415**	0.32940	0.06480	**0.38973**	2.50740	0.30000	**1.24574**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.23324**	0.32940	0.06480	**0.46235**	2.50740	0.30000	**1.17625**
	GATE->Q_N (RF)	0.01860	0.00100	**0.21429**	0.32940	0.06480	**0.44724**	2.50740	0.30000	**1.14885**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.08314**	1.26300	1.26300	**-0.21317**	2.50740	2.50740	**-0.26269**
	setup	GATE (F)	0.01860	0.01860	**0.10759**	1.26300	1.26300	**0.27254**	2.50740	2.50740	**0.36009**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**0.02361**
	setup	GATE (F)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.01889**	2.50740	2.50740	**-0.01181**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**0.00000**	1.26300	1.26300	**-0.03508**	2.50740	2.50740	**-0.05018**
	removal	GATE (F)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**0.07555**	2.50740	2.50740	**0.09150**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhr_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhr_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00484**	0.32940	0.06480	**0.00484**	2.50740	0.30000	**0.00562**
	GATE	0.01860	0.00100	**0.00982**	0.32940	0.06480	**0.01008**	2.50740	0.30000	**0.01081**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00686**	0.32940	0.06480	**0.00080**	2.50740	0.30000	**0.00151**
	GATE	0.01860	0.00100	**0.00969**	0.32940	0.06480	**0.01006**	2.50740	0.30000	**0.01062**
	RESET_B	0.01860	0.00100	**0.00704**	0.32940	0.06480	**0.00729**	2.50740	0.30000	**0.01161**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00687**	0.32940	0.06480	**0.00099**	2.50740	0.30000	**0.00090**
	GATE	0.01860	0.00100	**0.01349**	0.32940	0.06480	**0.01405**	2.50740	0.30000	**0.01821**
	RESET_B	0.01860	0.00100	**0.00705**	0.32940	0.06480	**0.00746**	2.50740	0.30000	**0.01117**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00483**	0.32940	0.06480	**0.00473**	2.50740	0.30000	**0.00489**
	GATE	0.01860	0.00100	**0.00981**	0.32940	0.06480	**0.00994**	2.50740	0.30000	**0.01018**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01535**	0.32940	**0.01620**	2.50740	**0.02217**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01034**	0.32940	**0.02309**	2.50740	**0.02913**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00344**	0.32940	**0.00358**	2.50740	**0.00970**
	!RESET_B	0.01860	**0.01535**	0.32940	**0.01620**	2.50740	**0.02217**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00349**	0.32940	**0.00375**	2.50740	**0.00982**
	!RESET_B	0.01860	**0.01034**	0.32940	**0.02309**	2.50740	**0.02913**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**-0.00030**	0.32940	**-0.00026**	2.50740	**-0.00022**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00034**	0.32940	**0.00026**	2.50740	**0.00022**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**-0.00017**	0.32940	**-0.00021**	2.50740	**-0.00021**
	(!D * !GATE * !Q)	0.01860	**-0.00030**	0.32940	**-0.00026**	2.50740	**-0.00022**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00046**	0.32940	**0.00038**	2.50740	**0.00034**
	(!D * !GATE * !Q)	0.01860	**0.00034**	0.32940	**0.00026**	2.50740	**0.00022**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00758**	0.32940	**0.00767**	2.50740	**0.01530**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00303**	0.32940	**0.01403**	2.50740	**0.02175**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01010**	0.32940	**0.01003**	2.50740	**0.01810**
	(!D * !RESET_B * !Q)	0.01860	**0.00758**	0.32940	**0.00767**	2.50740	**0.01530**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01157**	0.32940	**0.01176**	2.50740	**0.01998**
	(!D * RESET_B * !Q)	0.01860	**0.00303**	0.32940	**0.01403**	2.50740	**0.02175**
	(!D * !RESET_B * !Q)	0.01860	**0.00308**	0.32940	**0.01408**	2.50740	**0.02179**

DLLRQ

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	RESET_B	GATE_N	Q
sg13g2_dllrq_1	0.00194	0.00272	0.00206	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	345.28200	400.66800	446.43400

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.17620**	0.32940	0.06480	**0.44938**	2.50740	0.30000	**1.29717**
	GATE_N->Q (FR)	0.01860	0.00100	**0.19550**	0.32940	0.06480	**0.47697**	2.50740	0.30000	**1.32944**
	RESET_B->Q (RR)	0.01860	0.00100	**0.08212**	0.32940	0.06480	**0.35835**	2.50740	0.30000	**1.25431**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.15609**	0.32940	0.06480	**0.38879**	2.50740	0.30000	**1.06195**
	GATE_N->Q (FF)	0.01860	0.00100	**0.14774**	0.32940	0.06480	**0.39898**	2.50740	0.30000	**1.15408**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06279**	0.32940	0.06480	**0.31747**	2.50740	0.30000	**1.06617**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.08365**	2.50740	2.50740	**-0.11216**
	setup	GATE_N (R)	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.09984**	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)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08069**	1.26300	1.26300	**-0.22127**	2.50740	2.50740	**-0.28335**
	setup	GATE_N (R)	0.01860	0.01860	**0.09047**	1.26300	1.26300	**0.28063**	2.50740	2.50740	**0.38075**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.02445**	1.26300	1.26300	**-0.08095**	2.50740	2.50740	**-0.08264**
	removal	GATE_N (R)	0.01860	0.01860	**0.04157**	1.26300	1.26300	**0.10254**	2.50740	2.50740	**0.10330**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00633**	0.32940	0.06480	**0.00686**	2.50740	0.30000	**0.00708**
	GATE_N	0.01860	0.00100	**0.01747**	0.32940	0.06480	**0.00677**	2.50740	0.30000	**0.00683**
	RESET_B	0.01860	0.00100	**0.00982**	0.32940	0.06480	**0.00988**	2.50740	0.30000	**0.01595**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.01418**	0.32940	0.06480	**-0.00004**	2.50740	0.30000	**0.00144**
	GATE_N	0.01860	0.00100	**0.01606**	0.32940	0.06480	**0.00523**	2.50740	0.30000	**0.00623**
	RESET_B	0.01860	0.00100	**0.00683**	0.32940	0.06480	**0.00723**	2.50740	0.30000	**0.01531**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01115**	0.32940	**0.01104**	2.50740	**0.01710**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00250**	0.32940	**0.01720**	2.50740	**0.02325**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00322**	0.32940	**0.00336**	2.50740	**0.00947**
	!RESET_B	0.01860	**0.01115**	0.32940	**0.01104**	2.50740	**0.01710**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00347**	0.32940	**0.00372**	2.50740	**0.00977**
	!RESET_B	0.01860	**0.00250**	0.32940	**0.01720**	2.50740	**0.02325**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**-0.00012**	0.32940	**-0.00016**	2.50740	**-0.00016**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00029**	0.32940	**0.00020**	2.50740	**0.00016**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**-0.00012**	0.32940	**-0.00016**	2.50740	**-0.00016**
	(!D * GATE_N * !Q)	0.01860	**-0.00012**	0.32940	**-0.00016**	2.50740	**-0.00016**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00029**	0.32940	**0.00020**	2.50740	**0.00016**
	(!D * GATE_N * !Q)	0.01860	**0.00029**	0.32940	**0.00020**	2.50740	**0.00016**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00711**	0.32940	**0.00720**	2.50740	**0.01480**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00301**	0.32940	**0.01421**	2.50740	**0.02196**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01252**	0.32940	**0.01253**	2.50740	**0.01983**
	(!D * !RESET_B * !Q)	0.01860	**0.00711**	0.32940	**0.00720**	2.50740	**0.01480**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01109**	0.32940	**0.01124**	2.50740	**0.01876**
	(!D * RESET_B * !Q)	0.01860	**0.00301**	0.32940	**0.01421**	2.50740	**0.02196**
	(!D * !RESET_B * !Q)	0.01860	**0.00306**	0.32940	**0.01426**	2.50740	**0.02201**

DLLR

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE_N	Q	Q_N
sg13g2_dllr_1	0.00198	0.00285	0.00214	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	456.78300	529.19000	592.96500

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.19336**	0.32940	0.06480	**0.47377**	2.50740	0.30000	**1.32123**
	GATE_N->Q (FR)	0.01860	0.00100	**0.21313**	0.32940	0.06480	**0.50287**	2.50740	0.30000	**1.35690**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.16501**	0.32940	0.06480	**0.40280**	2.50740	0.30000	**1.07567**
	GATE_N->Q (FF)	0.01860	0.00100	**0.15749**	0.32940	0.06480	**0.41508**	2.50740	0.30000	**1.17178**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06754**	0.32940	0.06480	**0.34207**	2.50740	0.30000	**1.10336**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.20158**	0.32940	0.06480	**0.46155**	2.50740	0.30000	**1.26539**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.19424**	0.32940	0.06480	**0.47359**	2.50740	0.30000	**1.36117**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10496**	0.32940	0.06480	**0.39078**	2.50740	0.30000	**1.25483**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.23529**	0.32940	0.06480	**0.46440**	2.50740	0.30000	**1.17873**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.25478**	0.32940	0.06480	**0.49354**	2.50740	0.30000	**1.21555**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08069**	1.26300	1.26300	**-0.08905**	2.50740	2.50740	**-0.11806**
	setup	GATE_N (R)	0.01860	0.01860	**0.10025**	1.26300	1.26300	**0.10794**	2.50740	2.50740	**0.13577**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.08314**	1.26300	1.26300	**-0.22396**	2.50740	2.50740	**-0.28630**
	setup	GATE_N (R)	0.01860	0.01860	**0.09781**	1.26300	1.26300	**0.28333**	2.50740	2.50740	**0.38665**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.01223**	1.26300	1.26300	**-0.04317**	2.50740	2.50740	**-0.02361**
	removal	GATE_N (R)	0.01860	0.01860	**0.03668**	1.26300	1.26300	**0.06746**	2.50740	2.50740	**0.05018**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.00948**	0.32940	0.06480	**0.05621**	2.50740	0.30000	**0.22703**
	GATE_N	0.01860	0.00100	**0.02128**	0.32940	0.06480	**0.06804**	2.50740	0.30000	**0.23883**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01437**	0.32940	0.06480	**0.04604**	2.50740	0.30000	**0.21640**
	GATE_N	0.01860	0.00100	**0.01948**	0.32940	0.06480	**0.06577**	2.50740	0.30000	**0.23470**
	RESET_B	0.01860	0.00100	**0.02256**	0.32940	0.06480	**0.06848**	2.50740	0.30000	**0.24615**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01440**	0.32940	0.06480	**0.04644**	2.50740	0.30000	**0.21562**
	GATE_N	0.01860	0.00100	**0.02744**	0.32940	0.06480	**0.07427**	2.50740	0.30000	**0.25317**
	RESET_B	0.01860	0.00100	**0.02256**	0.32940	0.06480	**0.06867**	2.50740	0.30000	**0.24438**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.00946**	0.32940	0.06480	**0.05593**	2.50740	0.30000	**0.22484**
	GATE_N	0.01860	0.00100	**0.02127**	0.32940	0.06480	**0.06768**	2.50740	0.30000	**0.23650**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01666**	0.32940	**0.01671**	2.50740	**0.02269**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01045**	0.32940	**0.02537**	2.50740	**0.03144**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	**(GATE_N * RESET_B * Q)**	0.01860	**0.00344**	0.32940	**0.00358**	2.50740	**0.00970**
	!RESET_B	0.01860	**0.01666**	0.32940	**0.01671**	2.50740	**0.02269**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	**(GATE_N * RESET_B * Q)**	0.01860	**0.00300**	0.32940	**0.00327**	2.50740	**0.00932**
	!RESET_B	0.01860	**0.01045**	0.32940	**0.02537**	2.50740	**0.03144**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**-0.00029**	0.32940	**-0.00031**	2.50740	**-0.00027**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00040**	0.32940	**0.00031**	2.50740	**0.00027**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00002**	0.32940	**-0.00002**	2.50740	**-0.00002**
	(!D * GATE_N * !Q)	0.01860	**-0.00029**	0.32940	**-0.00031**	2.50740	**-0.00027**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00039**	0.32940	**0.00031**	2.50740	**0.00027**
	(!D * GATE_N * !Q)	0.01860	**0.00040**	0.32940	**0.00031**	2.50740	**0.00027**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00208**	0.32940	**0.01439**	2.50740	**0.02193**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00795**	0.32940	**0.00813**	2.50740	**0.01592**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01268**	0.32940	**0.01270**	2.50740	**0.01998**
	(!D * RESET_B * !Q)	0.01860	**0.00199**	0.32940	**0.01430**	2.50740	**0.02184**
	(!D * !RESET_B * !Q)	0.01860	**0.00208**	0.32940	**0.01439**	2.50740	**0.02193**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01145**	0.32940	**0.01163**	2.50740	**0.01911**
	(!D * !RESET_B * !Q)	0.01860	**0.00795**	0.32940	**0.00813**	2.50740	**0.01592**

DLY1

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00129	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	176.86300	186.82000	196.77700

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.10900**	0.32940	0.06480	**0.37921**	2.50740	0.30000	**1.17718**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.12830**	0.32940	0.06480	**0.38636**	2.50740	0.30000	**1.17448**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01213**	0.32940	0.06480	**0.01226**	2.50740	0.30000	**0.01653**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01148**	0.32940	0.06480	**0.01178**	2.50740	0.30000	**0.01548**

DLY2

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00130	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	178.59800	188.57400	198.54900

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.15947**	0.32940	0.06480	**0.44109**	2.50740	0.30000	**1.28561**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.18205**	0.32940	0.06480	**0.46065**	2.50740	0.30000	**1.29551**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01432**	0.32940	0.06480	**0.01441**	2.50740	0.30000	**0.01775**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01376**	0.32940	0.06480	**0.01392**	2.50740	0.30000	**0.01803**

DLY4

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd3_1	0.00127	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	389.89200	399.85500	409.81900

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.33578**	0.32940	0.06480	**0.64811**	2.50740	0.30000	**1.59358**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.34969**	0.32940	0.06480	**0.66606**	2.50740	0.30000	**1.60472**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02055**	0.32940	0.06480	**0.02047**	2.50740	0.30000	**0.02323**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02022**	0.32940	0.06480	**0.02013**	2.50740	0.30000	**0.02314**

EINVINx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_4	23.58720
sg13g2_einvn_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_4	0.00746	0.00869	1.20000
sg13g2_einvn_2	0.00373	0.00455	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	399.52800	477.25900	554.99000
sg13g2_einvn_2	201.55400	240.42400	279.29400

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (FR)	0.01860	0.01012	**0.02509**	0.32940	0.26832	**0.52911**	2.50740	1.20912	**2.81262**
	TE_B->Z (RR)	0.01860	0.01012	**0.04861**	0.32940	0.26832	**0.13021**	2.50740	1.20912	**0.29090**
	TE_B->Z (FR)	0.01860	0.01012	**0.03169**	0.32940	0.26832	**0.51892**	2.50740	1.20912	**2.63940**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00562	**0.02665**	0.32940	0.13422	**0.52884**	2.50740	0.60462	**2.80968**
	TE_B->Z (RR)	0.01860	0.00562	**0.04763**	0.32940	0.13422	**0.12774**	2.50740	0.60462	**0.28705**
	TE_B->Z (FR)	0.01860	0.00562	**0.03317**	0.32940	0.13422	**0.51828**	2.50740	0.60462	**2.63934**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01544	**0.02275**	0.32940	0.27364	**0.43291**	2.50740	1.21444	**2.40286**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00840	**0.02404**	0.32940	0.13700	**0.43307**	2.50740	0.60740	**2.40130**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01012	**0.00987**	0.32940	0.26832	**0.00991**	2.50740	1.20912	**0.01333**
	TE_B	0.01860	0.01012	**0.02166**	0.32940	0.26832	**0.01460**	2.50740	1.20912	**0.01095**
sg13g2_einvn_2	A	0.01860	0.00562	**0.00499**	0.32940	0.13422	**0.00495**	2.50740	0.60462	**0.00629**
	TE_B	0.01860	0.00562	**0.01076**	0.32940	0.13422	**0.00713**	2.50740	0.60462	**0.00568**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01544	**0.00901**	0.32940	0.27364	**0.01047**	2.50740	1.21444	**0.01157**
sg13g2_einvn_2	A	0.01860	0.00840	**0.00462**	0.32940	0.13700	**0.00522**	2.50740	0.60740	**0.00559**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_einvn_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**-0.00470**	0.32940	**-0.00503**	2.50740	**0.00286**
sg13g2_einvn_2	0.01860	**-0.00211**	0.32940	**-0.00230**	2.50740	**0.00186**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.00746**	0.32940	**0.01435**	2.50740	**0.02301**
sg13g2_einvn_2	0.01860	**0.00383**	0.32940	**0.00728**	2.50740	**0.01182**

FILLx

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

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_2	3.62880
sg13g2_fill_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

GCLK

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

Truth Table

INPUT		OUTPUT
GATE	CLK	GCLK
x	0	0
x	1	GCLK

Footprint

Cell Name	Area
sg13g2_lgcp_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	GATE	CLK	GCLK
sg13g2_lgcp_1	0.00222	0.00498	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	377.60000	387.84300	400.60900

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_lgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.07352**	0.32940	0.06480	**0.34802**	2.50740	0.30000	**1.22859**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_lgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.05987**	0.32940	0.06480	**0.31159**	2.50740	0.30000	**1.05042**

Constraint Information

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_lgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.03557**	1.26300	1.26300	**-0.17000**	2.50740	2.50740	**-0.26252**
	setup	CLK (R)	0.01860	0.01860	**0.06080**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.35993**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_lgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.02032**	1.26300	1.26300	**-0.01349**	2.50740	2.50740	**-0.00659**
	setup	CLK (R)	0.01860	0.01860	**0.04941**	1.26300	1.26300	**0.05397**	2.50740	2.50740	**0.06320**

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_lgcp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.00863**	0.32940	0.06480	**0.00872**	2.50740	0.30000	**0.01378**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.00518**	0.32940	0.06480	**0.00564**	2.50740	0.30000	**0.01300**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.01680**	0.32940	**0.01839**	2.50740	**0.02377**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00937**	0.32940	**0.02699**	2.50740	**0.03267**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	!CLK	0.01860	**0.01680**	0.32940	**0.01839**	2.50740	**0.02377**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	!CLK	0.01860	**0.00937**	0.32940	**0.02699**	2.50740	**0.03267**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00666**	0.32940	**0.00670**	2.50740	**0.01435**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00781**	0.32940	**0.00797**	2.50740	**0.01564**

INx

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

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_16	0.04548	4.80000
sg13g2_inv_8	0.02214	2.40000
sg13g2_inv_4	0.01108	1.20000
sg13g2_inv_2	0.00553	0.60000
sg13g2_inv_1	0.00278	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	696.58700	1007.55000	1318.51000
sg13g2_inv_8	348.29700	503.77600	659.25600
sg13g2_inv_4	174.14800	251.88800	329.62800
sg13g2_inv_2	87.07440	125.94400	164.81400
sg13g2_inv_1	43.53740	62.97180	82.40630

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.01708**	0.32940	1.03680	**0.35280**	2.50740	4.80000	**2.04355**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01694**	0.32940	0.51840	**0.35224**	2.50740	2.40000	**2.04430**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01734**	0.32940	0.25920	**0.35216**	2.50740	1.20000	**2.04358**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01842**	0.32940	0.12960	**0.35158**	2.50740	0.60000	**2.03757**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.02076**	0.32940	0.06480	**0.35202**	2.50740	0.30000	**2.03807**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.01621**	0.32940	1.03680	**0.32221**	2.50740	4.80000	**1.90957**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01610**	0.32940	0.51840	**0.32231**	2.50740	2.40000	**1.90849**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01642**	0.32940	0.25920	**0.32233**	2.50740	1.20000	**1.90935**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01733**	0.32940	0.12960	**0.32107**	2.50740	0.60000	**1.90386**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01945**	0.32940	0.06480	**0.32172**	2.50740	0.30000	**1.90175**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02177**	0.32940	1.03680	**0.02429**	2.50740	4.80000	**0.03751**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01039**	0.32940	0.51840	**0.01162**	2.50740	2.40000	**0.01954**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00525**	0.32940	0.25920	**0.00592**	2.50740	1.20000	**0.00860**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00268**	0.32940	0.12960	**0.00294**	2.50740	0.60000	**0.00364**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00159**	0.32940	0.06480	**0.00162**	2.50740	0.30000	**0.00200**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.01800**	0.32940	1.03680	**0.01774**	2.50740	4.80000	**0.03229**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.00855**	0.32940	0.51840	**0.00846**	2.50740	2.40000	**0.01244**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00434**	0.32940	0.25920	**0.00435**	2.50740	1.20000	**0.00702**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00225**	0.32940	0.12960	**0.00221**	2.50740	0.60000	**0.00405**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00148**	0.32940	0.06480	**0.00139**	2.50740	0.30000	**0.00194**

ITL

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_8	39.84120

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_8	0.01484	0.01483	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	755.52000	911.00000	1066.48000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (FR)	0.01860	0.01920	**0.02442**	0.32940	0.53660	**0.53098**	2.50740	2.41820	**2.82165**
	TE_B->Z (RR)	0.01860	0.01920	**0.06126**	0.32940	0.53660	**0.16980**	2.50740	2.41820	**0.40211**
	TE_B->Z (FR)	0.01860	0.01920	**0.03260**	0.32940	0.53660	**0.52188**	2.50740	2.41820	**2.64795**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (RF)	0.01860	0.02978	**0.02316**	0.32940	0.54718	**0.43404**	2.50740	2.42878	**2.40899**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.01920	**0.01934**	0.32940	0.53660	**0.02024**	2.50740	2.41820	**0.03081**
	TE_B	0.01860	0.01920	**0.04493**	0.32940	0.53660	**0.03016**	2.50740	2.41820	**0.02587**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.02978	**0.01743**	0.32940	0.54718	**0.02052**	2.50740	2.42878	**0.02190**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**-0.01151**	0.32940	**-0.01228**	2.50740	**-0.00553**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.01151**	0.32940	**0.02535**	2.50740	**0.03349**

KEEPSTATE

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

Truth Table

INPUT	OUTPUT
SH	SH
x	-

Footprint

Cell Name	Area
sg13g2_sighold	9.07200

Pin Capacitance Information

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

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	37.36580	110.80200	184.23800

Passive Power Information

Passive power(pJ) for SH rising :

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

Passive power(pJ) for SH falling :

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

MUX2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux2_1	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_1	0.00189	0.00187	0.00489	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	220.22400	246.34200	274.31900

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.07091**	0.32940	0.06480	**0.35683**	2.50740	0.30000	**1.24768**
	A1->X (RR)	0.01860	0.00100	**0.05032**	0.32940	0.06480	**0.36147**	2.50740	0.30000	**1.26377**
	S->X (-R)	0.01860	0.00100	**0.07855**	0.32940	0.06480	**0.36185**	2.50740	0.30000	**1.25997**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.05787**	0.32940	0.06480	**0.36362**	2.50740	0.30000	**1.16630**
	A1->X (FF)	0.01860	0.00100	**0.09559**	0.32940	0.06480	**0.37037**	2.50740	0.30000	**1.18060**
	S->X (-F)	0.01860	0.00100	**0.10623**	0.32940	0.06480	**0.36199**	2.50740	0.30000	**1.13715**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.07855**	0.32940	0.06480	**0.36185**	2.50740	0.30000	**1.25997**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.11394**	0.32940	0.06480	**0.38513**	2.50740	0.30000	**1.19709**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.10623**	0.32940	0.06480	**0.36199**	2.50740	0.30000	**1.13715**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.13553**	0.32940	0.06480	**0.38561**	2.50740	0.30000	**1.11488**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0	0.01860	0.00100	**0.00974**	0.32940	0.06480	**0.00987**	2.50740	0.30000	**0.01646**
	A1	0.01860	0.00100	**0.00837**	0.32940	0.06480	**0.01246**	2.50740	0.30000	**0.01920**
	S	0.01860	0.00100	**0.00909**	0.32940	0.06480	**0.00959**	2.50740	0.30000	**0.01465**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0	0.01860	0.00100	**0.00815**	0.32940	0.06480	**0.01267**	2.50740	0.30000	**0.01949**
	A1	0.01860	0.00100	**0.00971**	0.32940	0.06480	**0.01000**	2.50740	0.30000	**0.01746**
	S	0.01860	0.00100	**0.00871**	0.32940	0.06480	**0.00926**	2.50740	0.30000	**0.01456**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.00938**	0.32940	0.06480	**0.00959**	2.50740	0.30000	**0.01007**
	S	(!A0 * A1)	0.01860	0.00100	**0.00909**	0.32940	0.06480	**0.00959**	2.50740	0.30000	**0.01465**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.00902**	0.32940	0.06480	**0.00945**	2.50740	0.30000	**0.01081**
	S	(!A0 * A1)	0.01860	0.00100	**0.00871**	0.32940	0.06480	**0.00926**	2.50740	0.30000	**0.01456**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00413**	0.32940	**0.00409**	2.50740	**0.01013**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00401**	0.32940	**0.00412**	2.50740	**0.01010**

MUX4

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process
sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, 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	0.00259	0.00259	0.00260	0.00260	0.00764	0.00470	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	346.84500	464.98800	578.35700

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.13418**	0.32940	0.06480	**0.44119**	2.50740	0.30000	**1.44427**
	A1->X (RR)	0.01860	0.00100	**0.13022**	0.32940	0.06480	**0.43944**	2.50740	0.30000	**1.44299**
	A2->X (RR)	0.01860	0.00100	**0.13921**	0.32940	0.06480	**0.44900**	2.50740	0.30000	**1.46580**
	A3->X (RR)	0.01860	0.00100	**0.13581**	0.32940	0.06480	**0.44721**	2.50740	0.30000	**1.46467**
	S0->X (-R)	0.01860	0.00100	**0.11509**	0.32940	0.06480	**0.43343**	2.50740	0.30000	**1.42725**
	S1->X (-R)	0.01860	0.00100	**-0.00325**	0.32940	0.06480	**0.34815**	2.50740	0.30000	**1.23372**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.15816**	0.32940	0.06480	**0.44014**	2.50740	0.30000	**1.25938**
	A1->X (FF)	0.01860	0.00100	**0.16059**	0.32940	0.06480	**0.43925**	2.50740	0.30000	**1.25947**
	A2->X (FF)	0.01860	0.00100	**0.16852**	0.32940	0.06480	**0.45329**	2.50740	0.30000	**1.28623**
	A3->X (FF)	0.01860	0.00100	**0.16900**	0.32940	0.06480	**0.45235**	2.50740	0.30000	**1.28481**
	S0->X (-F)	0.01860	0.00100	**0.14338**	0.32940	0.06480	**0.43775**	2.50740	0.30000	**1.27992**
	S1->X (-F)	0.01860	0.00100	**0.03951**	0.32940	0.06480	**0.34600**	2.50740	0.30000	**1.09480**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.11509**	0.32940	0.06480	**0.43343**	2.50740	0.30000	**1.42725**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.10869**	0.32940	0.06480	**0.41944**	2.50740	0.30000	**1.39533**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.16869**	0.32940	0.06480	**0.46605**	2.50740	0.30000	**1.33244**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.16359**	0.32940	0.06480	**0.45899**	2.50740	0.30000	**1.32102**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**-0.00673**	0.32940	0.06480	**0.34200**	2.50740	0.30000	**1.23330**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.00325**	0.32940	0.06480	**0.34815**	2.50740	0.30000	**1.23372**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**-0.00686**	0.32940	0.06480	**0.36548**	2.50740	0.30000	**1.16709**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.00423**	0.32940	0.06480	**0.36697**	2.50740	0.30000	**1.16742**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.14338**	0.32940	0.06480	**0.43775**	2.50740	0.30000	**1.27992**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.13065**	0.32940	0.06480	**0.41972**	2.50740	0.30000	**1.24175**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.18510**	0.32940	0.06480	**0.46929**	2.50740	0.30000	**1.24979**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.17530**	0.32940	0.06480	**0.45612**	2.50740	0.30000	**1.23165**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.03951**	0.32940	0.06480	**0.34600**	2.50740	0.30000	**1.09480**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.00819**	0.32940	0.06480	**0.33780**	2.50740	0.30000	**1.09414**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.00107**	0.32940	0.06480	**0.36524**	2.50740	0.30000	**1.08713**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.00828**	0.32940	0.06480	**0.36178**	2.50740	0.30000	**1.08694**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0	0.01860	0.00100	**0.01175**	0.32940	0.06480	**0.01170**	2.50740	0.30000	**0.01598**
	A1	0.01860	0.00100	**0.01133**	0.32940	0.06480	**0.01121**	2.50740	0.30000	**0.01571**
	A2	0.01860	0.00100	**0.01199**	0.32940	0.06480	**0.01180**	2.50740	0.30000	**0.01612**
	A3	0.01860	0.00100	**0.01508**	0.32940	0.06480	**0.01484**	2.50740	0.30000	**0.01917**
	S0	0.01860	0.00100	**0.00579**	0.32940	0.06480	**-0.00129**	2.50740	0.30000	**0.01213**
	S1	0.01860	0.00100	**0.01026**	0.32940	0.06480	**0.02989**	2.50740	0.30000	**0.03579**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0	0.01860	0.00100	**0.01623**	0.32940	0.06480	**0.01638**	2.50740	0.30000	**0.02097**
	A1	0.01860	0.00100	**0.01190**	0.32940	0.06480	**0.01184**	2.50740	0.30000	**0.01665**
	A2	0.01860	0.00100	**0.01703**	0.32940	0.06480	**0.01717**	2.50740	0.30000	**0.02093**
	A3	0.01860	0.00100	**0.01581**	0.32940	0.06480	**0.01584**	2.50740	0.30000	**0.01971**
	S0	0.01860	0.00100	**0.01197**	0.32940	0.06480	**0.00905**	2.50740	0.30000	**0.00973**
	S1	0.01860	0.00100	**0.01146**	0.32940	0.06480	**0.02399**	2.50740	0.30000	**0.02927**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.01674**	0.32940	0.06480	**0.01052**	2.50740	0.30000	**0.00457**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01671**	0.32940	0.06480	**0.01060**	2.50740	0.30000	**0.00458**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00579**	0.32940	0.06480	**-0.00129**	2.50740	0.30000	**0.01213**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00587**	0.32940	0.06480	**-0.00141**	2.50740	0.30000	**0.01206**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00892**	0.32940	0.06480	**0.03282**	2.50740	0.30000	**0.03752**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01026**	0.32940	0.06480	**0.02989**	2.50740	0.30000	**0.03579**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00864**	0.32940	0.06480	**0.02473**	2.50740	0.30000	**0.03232**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00962**	0.32940	0.06480	**0.02276**	2.50740	0.30000	**0.02930**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.01197**	0.32940	0.06480	**0.00905**	2.50740	0.30000	**0.00973**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01166**	0.32940	0.06480	**0.00971**	2.50740	0.30000	**0.01000**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00898**	0.32940	0.06480	**0.00359**	2.50740	0.30000	**0.00994**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00899**	0.32940	0.06480	**0.00370**	2.50740	0.30000	**0.01004**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01146**	0.32940	0.06480	**0.02399**	2.50740	0.30000	**0.02927**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01041**	0.32940	0.06480	**0.03332**	2.50740	0.30000	**0.03950**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01026**	0.32940	0.06480	**0.01838**	2.50740	0.30000	**0.02550**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00953**	0.32940	0.06480	**0.02593**	2.50740	0.30000	**0.03505**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00953**	0.32940	**0.01743**	2.50740	**0.02469**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00621**	0.32940	**0.01258**	2.50740	**0.02644**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00926**	0.32940	**0.01625**	2.50740	**0.02374**
	(A0 * A1 * !S1)	0.01860	**0.00953**	0.32940	**0.01743**	2.50740	**0.02469**
	(!A2 * !A3 * S1)	0.01860	**0.00954**	0.32940	**0.01651**	2.50740	**0.02411**
	(!A0 * !A1 * !S1)	0.01860	**0.01012**	0.32940	**0.01805**	2.50740	**0.02539**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00570**	0.32940	**0.01074**	2.50740	**0.02487**
	(A0 * A1 * !S1)	0.01860	**0.00621**	0.32940	**0.01258**	2.50740	**0.02644**
	(!A2 * !A3 * S1)	0.01860	**0.00552**	0.32940	**0.01047**	2.50740	**0.02454**
	(!A0 * !A1 * !S1)	0.01860	**0.01059**	0.32940	**0.01841**	2.50740	**0.02547**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00402**	0.32940	**0.00437**	2.50740	**0.01198**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00409**	0.32940	**0.00465**	2.50740	**0.01222**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00402**	0.32940	**0.00437**	2.50740	**0.01198**
	(A0 * A2 * !S0)	0.01860	**0.00401**	0.32940	**0.00435**	2.50740	**0.01197**
	(!A1 * !A3 * S0)	0.01860	**0.00409**	0.32940	**0.00457**	2.50740	**0.01216**
	(!A0 * !A2 * !S0)	0.01860	**0.00410**	0.32940	**0.00457**	2.50740	**0.01215**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00410**	0.32940	**0.00466**	2.50740	**0.01224**
	(A0 * A2 * !S0)	0.01860	**0.00409**	0.32940	**0.00465**	2.50740	**0.01222**
	(!A1 * !A3 * S0)	0.01860	**0.00412**	0.32940	**0.00456**	2.50740	**0.01213**
	(!A0 * !A2 * !S0)	0.01860	**0.00412**	0.32940	**0.00456**	2.50740	**0.01212**

NAND2B1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00221	0.00296	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	74.96040	128.61100	196.40200

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.04968**	0.32940	0.06480	**0.32343**	2.50740	0.30000	**1.19668**
	B->Y (FR)	0.01860	0.00100	**0.02553**	0.32940	0.06480	**0.35831**	2.50740	0.30000	**2.04733**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.06150**	0.32940	0.06480	**0.41225**	2.50740	0.30000	**1.53105**
	B->Y (RF)	0.01860	0.00100	**0.03740**	0.32940	0.06480	**0.42653**	2.50740	0.30000	**2.27984**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00192**	0.32940	0.06480	**0.00195**	2.50740	0.30000	**0.00145**
	B	0.01860	0.00100	**0.00196**	0.32940	0.06480	**0.00181**	2.50740	0.30000	**0.00208**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00422**	0.32940	0.06480	**0.00436**	2.50740	0.30000	**0.00398**
	B	0.01860	0.00100	**0.00415**	0.32940	0.06480	**0.00405**	2.50740	0.30000	**0.00421**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00402**	0.32940	**0.00427**	2.50740	**0.01043**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00207**	0.32940	**0.00232**	2.50740	**0.00838**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00402**	0.32940	**0.00427**	2.50740	**0.01043**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00207**	0.32940	**0.00232**	2.50740	**0.00838**

NAND2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_1	0.00275	0.00282	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	43.37260	92.00020	164.81400

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.02253**	0.32940	0.06480	**0.35395**	2.50740	0.30000	**2.04268**
	B->Y (FR)	0.01860	0.00100	**0.02583**	0.32940	0.06480	**0.35722**	2.50740	0.30000	**2.04809**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.02885**	0.32940	0.06480	**0.43057**	2.50740	0.30000	**2.39054**
	B->Y (RF)	0.01860	0.00100	**0.03347**	0.32940	0.06480	**0.42361**	2.50740	0.30000	**2.27662**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A	0.01860	0.00100	**0.00174**	0.32940	0.06480	**0.00178**	2.50740	0.30000	**0.00224**
	B	0.01860	0.00100	**0.00185**	0.32940	0.06480	**0.00166**	2.50740	0.30000	**0.00229**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A	0.01860	0.00100	**0.00222**	0.32940	0.06480	**0.00217**	2.50740	0.30000	**0.00288**
	B	0.01860	0.00100	**0.00395**	0.32940	0.06480	**0.00387**	2.50740	0.30000	**0.00399**

NAND3B1

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

Truth Table

INPUT			OUTPUT
A_N	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	0.00212	0.00283	0.00285	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	76.93210	134.57500	278.80700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.05224**	0.32940	0.06480	**0.32392**	2.50740	0.30000	**1.19189**
	B->Y (FR)	0.01860	0.00100	**0.02844**	0.32940	0.06480	**0.36066**	2.50740	0.30000	**2.04900**
	C->Y (FR)	0.01860	0.00100	**0.03089**	0.32940	0.06480	**0.36407**	2.50740	0.30000	**2.05511**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.07464**	0.32940	0.06480	**0.54143**	2.50740	0.30000	**2.09564**
	B->Y (RF)	0.01860	0.00100	**0.05603**	0.32940	0.06480	**0.55748**	2.50740	0.30000	**2.81089**
	C->Y (RF)	0.01860	0.00100	**0.06141**	0.32940	0.06480	**0.55013**	2.50740	0.30000	**2.67495**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00205**	0.32940	0.06480	**0.00206**	2.50740	0.30000	**0.00150**
	B	0.01860	0.00100	**0.00225**	0.32940	0.06480	**0.00204**	2.50740	0.30000	**0.00211**
	C	0.01860	0.00100	**0.00255**	0.32940	0.06480	**0.00224**	2.50740	0.30000	**0.00249**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00598**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.00532**
	B	0.01860	0.00100	**0.00533**	0.32940	0.06480	**0.00515**	2.50740	0.30000	**0.00541**
	C	0.01860	0.00100	**0.00705**	0.32940	0.06480	**0.00689**	2.50740	0.30000	**0.00703**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00394**	0.32940	**0.00419**	2.50740	**0.01038**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00156**	0.32940	**0.00182**	2.50740	**0.00789**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00394**	0.32940	**0.00419**	2.50740	**0.01038**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00156**	0.32940	**0.00182**	2.50740	**0.00789**

NOR2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_1	0.00285	0.00274	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	65.67830	82.91300	103.59100

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.04167**	0.32940	0.06480	**0.52133**	2.50740	0.30000	**2.64458**
	B->Y (FR)	0.01860	0.00100	**0.03502**	0.32940	0.06480	**0.53241**	2.50740	0.30000	**2.80589**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.02368**	0.32940	0.06480	**0.32652**	2.50740	0.30000	**1.90674**
	B->Y (RF)	0.01860	0.00100	**0.02097**	0.32940	0.06480	**0.32270**	2.50740	0.30000	**1.90237**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A	0.01860	0.00100	**0.00441**	0.32940	0.06480	**0.00426**	2.50740	0.30000	**0.00446**
	B	0.01860	0.00100	**0.00223**	0.32940	0.06480	**0.00219**	2.50740	0.30000	**0.00271**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A	0.01860	0.00100	**0.00186**	0.32940	0.06480	**0.00144**	2.50740	0.30000	**0.00171**
	B	0.01860	0.00100	**0.00169**	0.32940	0.06480	**0.00151**	2.50740	0.30000	**0.00190**

NOR3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_1	0.00283	0.00278	0.00270	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	67.12490	92.83740	130.61200

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.07476**	0.32940	0.06480	**0.72408**	2.50740	0.30000	**3.35163**
	B->Y (FR)	0.01860	0.00100	**0.06970**	0.32940	0.06480	**0.73427**	2.50740	0.30000	**3.51915**
	C->Y (FR)	0.01860	0.00100	**0.05388**	0.32940	0.06480	**0.72809**	2.50740	0.30000	**3.61294**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.02639**	0.32940	0.06480	**0.33211**	2.50740	0.30000	**1.91503**
	B->Y (RF)	0.01860	0.00100	**0.02611**	0.32940	0.06480	**0.32933**	2.50740	0.30000	**1.91319**
	C->Y (RF)	0.01860	0.00100	**0.02293**	0.32940	0.06480	**0.32596**	2.50740	0.30000	**1.90765**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A	0.01860	0.00100	**0.00735**	0.32940	0.06480	**0.00718**	2.50740	0.30000	**0.00747**
	B	0.01860	0.00100	**0.00549**	0.32940	0.06480	**0.00533**	2.50740	0.30000	**0.00539**
	C	0.01860	0.00100	**0.00333**	0.32940	0.06480	**0.00328**	2.50740	0.30000	**0.00393**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A	0.01860	0.00100	**0.00239**	0.32940	0.06480	**0.00193**	2.50740	0.30000	**0.00205**
	B	0.01860	0.00100	**0.00218**	0.32940	0.06480	**0.00171**	2.50740	0.30000	**0.00178**
	C	0.01860	0.00100	**0.00183**	0.32940	0.06480	**0.00171**	2.50740	0.30000	**0.00169**

NOR4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor4_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_1	0.00282	0.00276	0.00239	0.00247	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	69.49890	99.76270	174.14900

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.11590**	0.32940	0.06480	**0.94884**	2.50740	0.30000	**4.14686**
	B->Y (FR)	0.01860	0.00100	**0.11126**	0.32940	0.06480	**0.95178**	2.50740	0.30000	**4.26986**
	C->Y (FR)	0.01860	0.00100	**0.09744**	0.32940	0.06480	**0.94645**	2.50740	0.30000	**4.40053**
	D->Y (FR)	0.01860	0.00100	**0.07037**	0.32940	0.06480	**0.92720**	2.50740	0.30000	**4.44925**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.02734**	0.32940	0.06480	**0.33658**	2.50740	0.30000	**1.92354**
	B->Y (RF)	0.01860	0.00100	**0.02829**	0.32940	0.06480	**0.33574**	2.50740	0.30000	**1.92068**
	C->Y (RF)	0.01860	0.00100	**0.02747**	0.32940	0.06480	**0.33160**	2.50740	0.30000	**1.91694**
	D->Y (RF)	0.01860	0.00100	**0.02398**	0.32940	0.06480	**0.32688**	2.50740	0.30000	**1.90898**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A	0.01860	0.00100	**0.00955**	0.32940	0.06480	**0.00936**	2.50740	0.30000	**0.00932**
	B	0.01860	0.00100	**0.00785**	0.32940	0.06480	**0.00766**	2.50740	0.30000	**0.00753**
	C	0.01860	0.00100	**0.00632**	0.32940	0.06480	**0.00610**	2.50740	0.30000	**0.00605**
	D	0.01860	0.00100	**0.00397**	0.32940	0.06480	**0.00392**	2.50740	0.30000	**0.00438**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A	0.01860	0.00100	**0.00301**	0.32940	0.06480	**0.00269**	2.50740	0.30000	**0.00291**
	B	0.01860	0.00100	**0.00291**	0.32940	0.06480	**0.00261**	2.50740	0.30000	**0.00229**
	C	0.01860	0.00100	**0.00163**	0.32940	0.06480	**0.00133**	2.50740	0.30000	**0.00143**
	D	0.01860	0.00100	**0.00091**	0.32940	0.06480	**0.00077**	2.50740	0.30000	**0.00072**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00003**	0.32940	**-0.00019**	2.50740	**-0.00023**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00023**	0.32940	**0.00025**	2.50740	**0.00025**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!B * C) + (!B * !C * D)	0.01860	**-0.00003**	0.32940	**-0.00019**	2.50740	**-0.00023**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00023**	0.32940	**0.00025**	2.50740	**0.00025**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00006**	0.32940	**-0.00013**	2.50740	**-0.00013**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00011**	0.32940	**0.00013**	2.50740	**0.00013**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!A * C) + (!A * !C * D)	0.01860	**-0.00006**	0.32940	**-0.00013**	2.50740	**-0.00013**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!A * C) + (!A * !C * D)	0.01860	**0.00011**	0.32940	**0.00013**	2.50740	**0.00013**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00077**	0.32940	**0.00078**	2.50740	**0.00078**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00021**	0.32940	**-0.00021**	2.50740	**-0.00021**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !D) + (!A * B * !D)	0.01860	**0.00077**	0.32940	**0.00078**	2.50740	**0.00078**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !D) + (!A * B * !D)	0.01860	**-0.00021**	0.32940	**-0.00021**	2.50740	**-0.00021**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00101**	0.32940	**0.00102**	2.50740	**0.00102**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00002**	0.32940	**-0.00002**	2.50740	**-0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !C) + (!A * B * !C)	0.01860	**0.00101**	0.32940	**0.00102**	2.50740	**0.00102**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**-0.00002**	0.32940	**-0.00002**	2.50740	**-0.00000**

NP_ANT

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

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00109

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	4.31998	4.31998	4.31998

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**-0.00031**	0.32940	**-0.00032**	2.50740	**-0.00032**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00031**	0.32940	**0.00032**	2.50740	**0.00032**

OR2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or2_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_1	0.00214	0.00210	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	90.36340	114.88700	145.58000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.05337**	0.32940	0.06480	**0.33731**	2.50740	0.30000	**1.22548**
	B->X (RR)	0.01860	0.00100	**0.04941**	0.32940	0.06480	**0.32478**	2.50740	0.30000	**1.18501**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.09059**	0.32940	0.06480	**0.33809**	2.50740	0.30000	**1.08256**
	B->X (FF)	0.01860	0.00100	**0.08433**	0.32940	0.06480	**0.34048**	2.50740	0.30000	**1.09621**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A	0.01860	0.00100	**0.00574**	0.32940	0.06480	**0.00577**	2.50740	0.30000	**0.01055**
	B	0.01860	0.00100	**0.00576**	0.32940	0.06480	**0.00588**	2.50740	0.30000	**0.01096**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A	0.01860	0.00100	**0.00749**	0.32940	0.06480	**0.00763**	2.50740	0.30000	**0.01214**
	B	0.01860	0.00100	**0.00590**	0.32940	0.06480	**0.00623**	2.50740	0.30000	**0.01202**

OR3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or3_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_1	0.00236	0.00232	0.00225	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	93.69210	121.94600	187.08200

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.06149**	0.32940	0.06480	**0.36168**	2.50740	0.30000	**1.30921**
	B->X (RR)	0.01860	0.00100	**0.05871**	0.32940	0.06480	**0.34998**	2.50740	0.30000	**1.26394**
	C->X (RR)	0.01860	0.00100	**0.05343**	0.32940	0.06480	**0.33546**	2.50740	0.30000	**1.21798**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.13030**	0.32940	0.06480	**0.38383**	2.50740	0.30000	**1.11192**
	B->X (FF)	0.01860	0.00100	**0.12477**	0.32940	0.06480	**0.38621**	2.50740	0.30000	**1.15187**
	C->X (FF)	0.01860	0.00100	**0.11025**	0.32940	0.06480	**0.37732**	2.50740	0.30000	**1.14236**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A	0.01860	0.00100	**0.00621**	0.32940	0.06480	**0.00622**	2.50740	0.30000	**0.01182**
	B	0.01860	0.00100	**0.00597**	0.32940	0.06480	**0.00587**	2.50740	0.30000	**0.01086**
	C	0.01860	0.00100	**0.00583**	0.32940	0.06480	**0.00579**	2.50740	0.30000	**0.01070**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A	0.01860	0.00100	**0.01052**	0.32940	0.06480	**0.01050**	2.50740	0.30000	**0.01487**
	B	0.01860	0.00100	**0.00887**	0.32940	0.06480	**0.00884**	2.50740	0.30000	**0.01306**
	C	0.01860	0.00100	**0.00702**	0.32940	0.06480	**0.00724**	2.50740	0.30000	**0.01186**

OR4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_1	0.00237	0.00235	0.00196	0.00205	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	96.01010	124.10500	221.97400

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.06415**	0.32940	0.06480	**0.37359**	2.50740	0.30000	**1.34319**
	B->X (RR)	0.01860	0.00100	**0.06336**	0.32940	0.06480	**0.36540**	2.50740	0.30000	**1.30518**
	C->X (RR)	0.01860	0.00100	**0.06002**	0.32940	0.06480	**0.35384**	2.50740	0.30000	**1.26272**
	D->X (RR)	0.01860	0.00100	**0.05449**	0.32940	0.06480	**0.33895**	2.50740	0.30000	**1.21696**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.18145**	0.32940	0.06480	**0.44879**	2.50740	0.30000	**1.17809**
	B->X (FF)	0.01860	0.00100	**0.17604**	0.32940	0.06480	**0.44778**	2.50740	0.30000	**1.21457**
	C->X (FF)	0.01860	0.00100	**0.16211**	0.32940	0.06480	**0.43976**	2.50740	0.30000	**1.24101**
	D->X (FF)	0.01860	0.00100	**0.13770**	0.32940	0.06480	**0.42072**	2.50740	0.30000	**1.22613**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A	0.01860	0.00100	**0.00715**	0.32940	0.06480	**0.00711**	2.50740	0.30000	**0.01303**
	B	0.01860	0.00100	**0.00683**	0.32940	0.06480	**0.00676**	2.50740	0.30000	**0.01158**
	C	0.01860	0.00100	**0.00551**	0.32940	0.06480	**0.00542**	2.50740	0.30000	**0.00981**
	D	0.01860	0.00100	**0.00510**	0.32940	0.06480	**0.00506**	2.50740	0.30000	**0.01011**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A	0.01860	0.00100	**0.01034**	0.32940	0.06480	**0.01015**	2.50740	0.30000	**0.01320**
	B	0.01860	0.00100	**0.01049**	0.32940	0.06480	**0.01029**	2.50740	0.30000	**0.01308**
	C	0.01860	0.00100	**0.00938**	0.32940	0.06480	**0.00935**	2.50740	0.30000	**0.01312**
	D	0.01860	0.00100	**0.00693**	0.32940	0.06480	**0.00704**	2.50740	0.30000	**0.01154**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00048**	0.32940	**-0.00049**	2.50740	**-0.00049**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00217**	0.32940	**0.00221**	2.50740	**0.00218**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!B * C) + (!B * !C * D)	0.01860	**-0.00048**	0.32940	**-0.00049**	2.50740	**-0.00049**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00217**	0.32940	**0.00221**	2.50740	**0.00218**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00039**	0.32940	**-0.00040**	2.50740	**-0.00040**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00039**	0.32940	**0.00040**	2.50740	**0.00040**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!A * C) + (!A * !C * D)	0.01860	**-0.00039**	0.32940	**-0.00040**	2.50740	**-0.00040**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!A * C) + (!A * !C * D)	0.01860	**0.00039**	0.32940	**0.00040**	2.50740	**0.00040**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00057**	0.32940	**0.00058**	2.50740	**0.00059**

Passive power(pJ) for C falling :

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

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !D) + (!A * B * !D)	0.01860	**0.00057**	0.32940	**0.00058**	2.50740	**0.00059**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !D) + (!A * B * !D)	0.01860	**-0.00016**	0.32940	**-0.00016**	2.50740	**-0.00016**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00076**	0.32940	**0.00078**	2.50740	**0.00077**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00044**	0.32940	**0.00044**	2.50740	**0.00046**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !C) + (!A * B * !C)	0.01860	**0.00076**	0.32940	**0.00078**	2.50740	**0.00077**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00044**	0.32940	**0.00044**	2.50740	**0.00046**

SDFRRS

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	D	SCD	SCE	RESET_B	SET_B	CLK	Q	Q_N
sg13g2_sdfbbp_1	0.00167	0.00184	0.00322	0.00157	0.00483	0.00291	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	681.93200	827.40700	928.98300

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.27892**	0.32940	0.06480	**0.55319**	2.50740	0.30000	**1.41908**
	SET_B->Q (FR)	0.01860	0.00100	**0.11658**	0.32940	0.06480	**0.41171**	2.50740	0.30000	**1.31954**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.23199**	0.32940	0.06480	**0.47564**	2.50740	0.30000	**1.23181**
	RESET_B->Q (FF)	0.01860	0.00100	**0.19500**	0.32940	0.06480	**0.45536**	2.50740	0.30000	**1.23825**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.27892**	0.32940	0.06480	**0.55319**	2.50740	0.30000	**1.41908**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.23199**	0.32940	0.06480	**0.47564**	2.50740	0.30000	**1.23181**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.18980**	0.32940	0.06480	**0.48623**	2.50740	0.30000	**1.37838**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.15176**	0.32940	0.06480	**0.47317**	2.50740	0.30000	**1.39581**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.23022**	0.32940	0.06480	**0.51170**	2.50740	0.30000	**1.25029**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.07731**	0.32940	0.06480	**0.36589**	2.50740	0.30000	**1.17616**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.18980**	0.32940	0.06480	**0.48623**	2.50740	0.30000	**1.37838**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.23022**	0.32940	0.06480	**0.51170**	2.50740	0.30000	**1.25029**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.08558**	1.26300	1.26300	**-0.26444**	2.50740	2.50740	**-0.36009**
	setup	CLK (R)	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.29412**	2.50740	2.50740	**0.38665**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.17809**	2.50740	2.50740	**-0.21841**
	setup	CLK (R)	0.01860	0.01860	**0.17605**	1.26300	1.26300	**0.27793**	2.50740	2.50740	**0.35123**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.11003**	1.26300	1.26300	**-0.32650**	2.50740	2.50740	**-0.44273**
	setup	CLK (R)	0.01860	0.01860	**0.15649**	1.26300	1.26300	**0.35079**	2.50740	2.50740	**0.47520**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.12959**	1.26300	1.26300	**-0.20777**	2.50740	2.50740	**-0.25678**
	setup	CLK (R)	0.01860	0.01860	**0.21029**	1.26300	1.26300	**0.30491**	2.50740	2.50740	**0.38370**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.08558**	1.26300	1.26300	**-0.27793**	2.50740	2.50740	**-0.38370**
	setup	CLK (R)	0.01860	0.01860	**0.13938**	1.26300	1.26300	**0.32650**	2.50740	2.50740	**0.43683**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.17119**
	setup	CLK (R)	0.01860	0.01860	**0.17605**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.31286**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.15651**	2.50740	2.50740	**0.19185**
	removal	CLK (R)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.11873**	2.50740	2.50740	**-0.15053**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**0.24015**	2.50740	2.50740	**0.59621**
	removal	CLK (R)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.08635**	2.50740	2.50740	**0.09740**
	hold	RESET_B (R)	0.01860	0.01860	**-0.07580**	1.26300	1.26300	**-0.21317**	2.50740	2.50740	**-0.28630**
	setup	RESET_B (R)	0.01860	0.01860	**0.09536**	1.26300	1.26300	**0.25634**	2.50740	2.50740	**0.35714**

Min Pulse Width (ns) for SET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_sdfbbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01515**	0.32940	0.06480	**0.01566**	2.50740	0.30000	**0.02175**
	SET_B	0.01860	0.00100	**0.02928**	0.32940	0.06480	**0.07527**	2.50740	0.30000	**0.25717**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01524**	0.32940	0.06480	**0.01546**	2.50740	0.30000	**0.01982**
	RESET_B	0.01860	0.00100	**0.03357**	0.32940	0.06480	**0.07965**	2.50740	0.30000	**0.25236**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01515**	0.32940	0.06480	**0.01566**	2.50740	0.30000	**0.02175**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01524**	0.32940	0.06480	**0.01546**	2.50740	0.30000	**0.01982**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01525**	0.32940	0.06480	**0.01558**	2.50740	0.30000	**0.02162**
	RESET_B	0.01860	0.00100	**0.03358**	0.32940	0.06480	**0.07992**	2.50740	0.30000	**0.25649**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01515**	0.32940	0.06480	**0.01552**	2.50740	0.30000	**0.02001**
	SET_B	0.01860	0.00100	**0.02926**	0.32940	0.06480	**0.07496**	2.50740	0.30000	**0.25527**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01525**	0.32940	0.06480	**0.01558**	2.50740	0.30000	**0.02162**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01515**	0.32940	0.06480	**0.01552**	2.50740	0.30000	**0.02001**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00452**	0.32940	**0.00444**	2.50740	**0.00764**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00429**	0.32940	**0.00422**	2.50740	**0.00743**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.01026**	0.32940	**0.01008**	2.50740	**0.01368**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00452**	0.32940	**0.00444**	2.50740	**0.00764**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.01093**	0.32940	**0.01077**	2.50740	**0.01440**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00429**	0.32940	**0.00422**	2.50740	**0.00743**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00613**	0.32940	**0.00606**	2.50740	**0.00839**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00661**	0.32940	**0.00651**	2.50740	**0.00895**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01185**	0.32940	**0.01167**	2.50740	**0.01442**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00613**	0.32940	**0.00606**	2.50740	**0.00839**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01532**	0.32940	**0.01478**	2.50740	**0.01763**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00661**	0.32940	**0.00651**	2.50740	**0.00895**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01201**	0.32940	**0.01210**	2.50740	**0.02042**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01361**	0.32940	**0.01374**	2.50740	**0.01805**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01344**	0.32940	**0.01350**	2.50740	**0.01804**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01675**	0.32940	**0.01602**	2.50740	**0.02052**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01201**	0.32940	**0.01210**	2.50740	**0.02042**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00630**	0.32940	**0.00649**	2.50740	**0.01436**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01361**	0.32940	**0.01374**	2.50740	**0.01805**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01475**	0.32940	**0.02133**	2.50740	**0.02571**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00310**	0.32940	**0.02235**	2.50740	**0.03201**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00599**	0.32940	**0.00617**	2.50740	**0.01340**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01043**	0.32940	**0.01048**	2.50740	**0.01939**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01222**	0.32940	**0.01247**	2.50740	**0.02152**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01038**	0.32940	**0.01049**	2.50740	**0.01930**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01416**	0.32940	**0.01427**	2.50740	**0.02295**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01043**	0.32940	**0.01048**	2.50740	**0.01939**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01037**	0.32940	**0.01048**	2.50740	**0.01929**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00985**	0.32940	**0.00992**	2.50740	**0.01883**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01043**	0.32940	**0.01048**	2.50740	**0.01939**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.00928**	0.32940	**0.00938**	2.50740	**0.01816**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01715**	0.32940	**0.01720**	2.50740	**0.02616**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01222**	0.32940	**0.01247**	2.50740	**0.02152**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01895**	0.32940	**0.01916**	2.50740	**0.02831**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.00948**	0.32940	**0.00968**	2.50740	**0.01845**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.00928**	0.32940	**0.00938**	2.50740	**0.01816**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00811**	0.32940	**0.00832**	2.50740	**0.01709**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.00944**	0.32940	**0.00964**	2.50740	**0.01841**

SGCLK

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_slgcp_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	GATE	SCE	CLK	GCLK
sg13g2_slgcp_1	0.00176	0.00217	0.00475	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	344.73700	415.97300	460.29400

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_slgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.07333**	0.32940	0.06480	**0.34786**	2.50740	0.30000	**1.22846**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_slgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.05997**	0.32940	0.06480	**0.31161**	2.50740	0.30000	**1.05040**

Constraint Information

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_slgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.03669**	1.26300	1.26300	**-0.19428**	2.50740	2.50740	**-0.27896**
	setup	CLK (R)	0.01860	0.01860	**0.05923**	1.26300	1.26300	**0.27793**	2.50740	2.50740	**0.41319**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_slgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.06594**	1.26300	1.26300	**-0.16730**	2.50740	2.50740	**-0.23084**
	setup	CLK (R)	0.01860	0.01860	**0.10924**	1.26300	1.26300	**0.21587**	2.50740	2.50740	**0.35703**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_slgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.04070**	1.26300	1.26300	**-0.21857**	2.50740	2.50740	**-0.31283**
	setup	CLK (R)	0.01860	0.01860	**0.00200**	1.26300	1.26300	**0.00200**	2.50740	2.50740	**0.00200**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_slgcp_1	hold	CLK (R)	0.01860	0.01860	**-0.07210**	1.26300	1.26300	**-0.14571**	2.50740	2.50740	**-0.20041**
	setup	CLK (R)	0.01860	0.01860	**0.11425**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.29530**

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_slgcp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.00855**	0.32940	0.06480	**0.00859**	2.50740	0.30000	**0.01378**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.00525**	0.32940	0.06480	**0.00571**	2.50740	0.30000	**0.01304**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01697**	0.32940	**0.01791**	2.50740	**0.02364**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00984**	0.32940	**0.02844**	2.50740	**0.03431**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	!CLK	0.01860	**0.01697**	0.32940	**0.01791**	2.50740	**0.02364**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	!CLK	0.01860	**0.00984**	0.32940	**0.02844**	2.50740	**0.03431**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00969**	0.32940	**0.00967**	2.50740	**0.01528**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01155**	0.32940	**0.02776**	2.50740	**0.03253**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00692**	0.32940	**0.00696**	2.50740	**0.01466**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00726**	0.32940	**0.00744**	2.50740	**0.01515**

TIE0

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

Footprint

Cell Name	Area
sg13g2_tielo	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_LO
sg13g2_tielo	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tielo	57.83940	57.83940	57.83940

TIE1

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

Footprint

Cell Name	Area
sg13g2_tiehi	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_HI
sg13g2_tiehi	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tiehi	58.05660	58.05660	58.05660

XNOR2_1

sg13g2_stdcell_typ_1p20V_25C Cell Library: Process sg13g2_stdcell_typ_1p20V_25C, Voltage 1.20, 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	0.00527	0.00458	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	120.27200	194.74900	225.78800

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (RR)	0.01860	0.00100	**0.07100**	0.32940	0.06480	**0.34606**	2.50740	0.30000	**1.22311**
	A->Y (FR)	0.01860	0.00100	**0.05330**	0.32940	0.06480	**0.53566**	2.50740	0.30000	**2.65803**
	B->Y (RR)	0.01860	0.00100	**0.06541**	0.32940	0.06480	**0.34063**	2.50740	0.30000	**1.21515**
	B->Y (FR)	0.01860	0.00100	**0.04670**	0.32940	0.06480	**0.54619**	2.50740	0.30000	**2.81860**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (FF)	0.01860	0.00100	**0.06955**	0.32940	0.06480	**0.43453**	2.50740	0.30000	**1.59392**
	A->Y (RF)	0.01860	0.00100	**0.04640**	0.32940	0.06480	**0.44122**	2.50740	0.30000	**2.30083**
	B->Y (FF)	0.01860	0.00100	**0.07036**	0.32940	0.06480	**0.42268**	2.50740	0.30000	**1.57297**
	B->Y (RF)	0.01860	0.00100	**0.03933**	0.32940	0.06480	**0.43237**	2.50740	0.30000	**2.28713**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00756**	0.32940	0.06480	**0.00763**	2.50740	0.30000	**0.01230**
	B	0.01860	0.00100	**0.00744**	0.32940	0.06480	**0.00743**	2.50740	0.30000	**0.01327**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00696**	0.32940	0.06480	**0.00729**	2.50740	0.30000	**0.01268**
	B	0.01860	0.00100	**0.00759**	0.32940	0.06480	**0.00664**	2.50740	0.30000	**0.01240**

XOR2_1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xor2_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00540	0.00468	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	174.84400	184.84200	194.61300

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (RR)	0.01860	0.00100	**0.06943**	0.32940	0.06480	**0.54326**	2.50740	0.30000	**2.14401**
	A->X (FR)	0.01860	0.00100	**0.05875**	0.32940	0.06480	**0.54273**	2.50740	0.30000	**2.67394**
	B->X (RR)	0.01860	0.00100	**0.07294**	0.32940	0.06480	**0.52935**	2.50740	0.30000	**2.09523**
	B->X (FR)	0.01860	0.00100	**0.05054**	0.32940	0.06480	**0.53339**	2.50740	0.30000	**2.66005**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (FF)	0.01860	0.00100	**0.08637**	0.32940	0.06480	**0.32702**	2.50740	0.30000	**1.04186**
	A->X (RF)	0.01860	0.00100	**0.04334**	0.32940	0.06480	**0.43638**	2.50740	0.30000	**2.29080**
	B->X (FF)	0.01860	0.00100	**0.07958**	0.32940	0.06480	**0.32588**	2.50740	0.30000	**1.04812**
	B->X (RF)	0.01860	0.00100	**0.03788**	0.32940	0.06480	**0.44264**	2.50740	0.30000	**2.40020**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.00662**	0.32940	0.06480	**0.00677**	2.50740	0.30000	**0.01221**
	B	0.01860	0.00100	**0.00709**	0.32940	0.06480	**0.00608**	2.50740	0.30000	**0.01131**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.00856**	0.32940	0.06480	**0.00863**	2.50740	0.30000	**0.01418**
	B	0.01860	0.00100	**0.00788**	0.32940	0.06480	**0.00798**	2.50740	0.30000	**0.01533**