sg13g2_stdcell_fast_1p32V_m40C Library

Cell Groups
A21OIx
A221OI
A22OI
AND2x
AND3x
AND4x
AO21x
BTLx
BUx
DECAPx
DFFRRx
DLHQ
DLHRQ
DLHR
DLLRQ
DLLR
DLY1
DLY2
DLY4
EINVINx
FILLx
GCLK
INx

ITL
KEEPSTATE
MUX2x
MUX4
NAND2B1
NAND2B2
NAND2x
NAND3B1
NAND3
NAND4
NOR2Bx
NOR2x
NOR3x
NOR4x
NP_ANT
O21AI
OR2x
OR3x
OR4x
SDFRRS
SGCLK
TIE0
TIE1
XNOR2_1
XOR2_1

A21OIx

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21oi_2	14.51520
sg13g2_a21oi_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_a21oi_2	0.00585	0.00642	0.00571	0.60000
sg13g2_a21oi_1	0.00304	0.00320	0.00291	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_2	317.74900	583.54100	764.88500
sg13g2_a21oi_1	158.87400	291.77100	382.44300

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_a21oi_2	A1->Y (FR)	0.01860	0.00100	**0.02953**	0.32940	0.12960	**0.36908**	2.50740	0.60000	**1.86786**
	A2->Y (FR)	0.01860	0.00100	**0.03519**	0.32940	0.12960	**0.37448**	2.50740	0.60000	**1.87301**
	B1->Y (FR)	0.01860	0.00100	**0.02831**	0.32940	0.12960	**0.39982**	2.50740	0.60000	**2.09715**
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.03216**	0.32940	0.06480	**0.36840**	2.50740	0.30000	**1.86419**
	A2->Y (FR)	0.01860	0.00100	**0.03766**	0.32940	0.06480	**0.37491**	2.50740	0.30000	**1.87395**
	B1->Y (FR)	0.01860	0.00100	**0.03080**	0.32940	0.06480	**0.40044**	2.50740	0.30000	**2.09851**

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_a21oi_2	A1->Y (RF)	0.01860	0.00100	**0.02733**	0.32940	0.12960	**0.35843**	2.50740	0.60000	**1.90118**
	A2->Y (RF)	0.01860	0.00100	**0.03022**	0.32940	0.12960	**0.33372**	2.50740	0.60000	**1.72017**
	B1->Y (RF)	0.01860	0.00100	**0.01525**	0.32940	0.12960	**0.26283**	2.50740	0.60000	**1.46176**
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.02969**	0.32940	0.06480	**0.35873**	2.50740	0.30000	**1.89950**
	A2->Y (RF)	0.01860	0.00100	**0.03226**	0.32940	0.06480	**0.33351**	2.50740	0.30000	**1.71826**
	B1->Y (RF)	0.01860	0.00100	**0.01687**	0.32940	0.06480	**0.26349**	2.50740	0.30000	**1.46384**

Delay(ns) to Y 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_a21oi_2	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02831**	0.32940	0.12960	**0.39982**	2.50740	0.60000	**2.09715**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02176**	0.32940	0.12960	**0.39377**	2.50740	0.60000	**2.09457**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.01848**	0.32940	0.12960	**0.33340**	2.50740	0.60000	**1.80947**
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.03080**	0.32940	0.06480	**0.40044**	2.50740	0.30000	**2.09851**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02444**	0.32940	0.06480	**0.39232**	2.50740	0.30000	**2.08527**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.02064**	0.32940	0.06480	**0.33313**	2.50740	0.30000	**1.80650**

Delay(ns) to Y 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_a21oi_2	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01525**	0.32940	0.12960	**0.26283**	2.50740	0.60000	**1.46176**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01497**	0.32940	0.12960	**0.26187**	2.50740	0.60000	**1.45921**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01473**	0.32940	0.12960	**0.26163**	2.50740	0.60000	**1.46031**
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01687**	0.32940	0.06480	**0.26349**	2.50740	0.30000	**1.46384**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01658**	0.32940	0.06480	**0.26249**	2.50740	0.30000	**1.46146**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01635**	0.32940	0.06480	**0.26226**	2.50740	0.30000	**1.46232**

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_a21oi_2	A1	0.01860	0.00100	**0.00871**	0.32940	0.12960	**0.00928**	2.50740	0.60000	**0.01912**
	A2	0.01860	0.00100	**0.01119**	0.32940	0.12960	**0.01162**	2.50740	0.60000	**0.02160**
	B1	0.01860	0.00100	**0.00712**	0.32940	0.12960	**0.00830**	2.50740	0.60000	**0.02088**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00446**	0.32940	0.06480	**0.00468**	2.50740	0.30000	**0.00945**
	A2	0.01860	0.00100	**0.00557**	0.32940	0.06480	**0.00575**	2.50740	0.30000	**0.01078**
	B1	0.01860	0.00100	**0.00355**	0.32940	0.06480	**0.00409**	2.50740	0.30000	**0.01039**

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_a21oi_2	A1	0.01860	0.00100	**0.00802**	0.32940	0.12960	**0.00846**	2.50740	0.60000	**0.01928**
	A2	0.01860	0.00100	**0.01127**	0.32940	0.12960	**0.01104**	2.50740	0.60000	**0.02078**
	B1	0.01860	0.00100	**0.00205**	0.32940	0.12960	**0.00383**	2.50740	0.60000	**0.01666**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00439**	0.32940	0.06480	**0.00459**	2.50740	0.30000	**0.00996**
	A2	0.01860	0.00100	**0.00590**	0.32940	0.06480	**0.00579**	2.50740	0.30000	**0.01075**
	B1	0.01860	0.00100	**0.00137**	0.32940	0.06480	**0.00218**	2.50740	0.30000	**0.00862**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00712**	0.32940	0.12960	**0.00830**	2.50740	0.60000	**0.02088**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00622**	0.32940	0.12960	**0.00776**	2.50740	0.60000	**0.02065**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00625**	0.32940	0.12960	**0.00775**	2.50740	0.60000	**0.02194**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00355**	0.32940	0.06480	**0.00409**	2.50740	0.30000	**0.01039**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00321**	0.32940	0.06480	**0.00390**	2.50740	0.30000	**0.01013**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00322**	0.32940	0.06480	**0.00389**	2.50740	0.30000	**0.01114**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00647**	0.32940	0.12960	**0.00821**	2.50740	0.60000	**0.02034**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00225**	0.32940	0.12960	**0.00409**	2.50740	0.60000	**0.01591**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00205**	0.32940	0.12960	**0.00383**	2.50740	0.60000	**0.01666**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00359**	0.32940	0.06480	**0.00437**	2.50740	0.30000	**0.01037**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00148**	0.32940	0.06480	**0.00230**	2.50740	0.30000	**0.00826**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00137**	0.32940	0.06480	**0.00218**	2.50740	0.30000	**0.00862**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00163**	0.32940	**-0.00160**	2.50740	**-0.00161**
sg13g2_a21oi_1	0.01860	**-0.00080**	0.32940	**-0.00080**	2.50740	**-0.00080**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00222**	0.32940	**0.00223**	2.50740	**0.00224**
sg13g2_a21oi_1	0.01860	**0.00102**	0.32940	**0.00102**	2.50740	**0.00103**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**-0.00163**	0.32940	**-0.00160**	2.50740	**-0.00161**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**-0.00080**	0.32940	**-0.00080**	2.50740	**-0.00080**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**0.00222**	0.32940	**0.00223**	2.50740	**0.00224**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**0.00102**	0.32940	**0.00102**	2.50740	**0.00103**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00043**	0.32940	**-0.00015**	2.50740	**-0.00006**
sg13g2_a21oi_1	0.01860	**-0.00021**	0.32940	**-0.00008**	2.50740	**-0.00004**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00043**	0.32940	**0.00015**	2.50740	**0.00006**
sg13g2_a21oi_1	0.01860	**0.00021**	0.32940	**0.00008**	2.50740	**0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**-0.00043**	0.32940	**-0.00015**	2.50740	**-0.00006**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**-0.00021**	0.32940	**-0.00008**	2.50740	**-0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**0.00043**	0.32940	**0.00015**	2.50740	**0.00006**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**0.00021**	0.32940	**0.00008**	2.50740	**0.00004**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00109**	0.32940	**0.00109**	2.50740	**0.00109**
sg13g2_a21oi_1	0.01860	**0.00059**	0.32940	**0.00060**	2.50740	**0.00060**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00109**	0.32940	**-0.00109**	2.50740	**-0.00109**
sg13g2_a21oi_1	0.01860	**-0.00059**	0.32940	**-0.00060**	2.50740	**-0.00060**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	(A1 * A2)	0.01860	**0.00109**	0.32940	**0.00109**	2.50740	**0.00109**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**0.00059**	0.32940	**0.00060**	2.50740	**0.00060**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	(A1 * A2)	0.01860	**-0.00109**	0.32940	**-0.00109**	2.50740	**-0.00109**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**-0.00059**	0.32940	**-0.00060**	2.50740	**-0.00060**

A221OI

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

INPUT					OUTPUT
A1	A2	B1	B2	C1	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
sg13g2_a221oi_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A1	A2	B1	B2	C1	Y
sg13g2_a221oi_1	0.00316	0.00323	0.00292	0.00301	0.00267	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	238.70800	456.17800	622.82600

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_a221oi_1	A1->Y (FR)	0.01860	0.00100	**0.06049**	0.32940	0.12960	**0.85581**	2.50740	0.60000	**3.96006**
	A2->Y (FR)	0.01860	0.00100	**0.06865**	0.32940	0.12960	**0.86227**	2.50740	0.60000	**3.96163**
	B1->Y (FR)	0.01860	0.00100	**0.06271**	0.32940	0.12960	**0.87823**	2.50740	0.60000	**4.18304**
	B2->Y (FR)	0.01860	0.00100	**0.07064**	0.32940	0.12960	**0.88387**	2.50740	0.60000	**4.18143**
	C1->Y (FR)	0.01860	0.00100	**0.04598**	0.32940	0.12960	**0.88238**	2.50740	0.60000	**4.34926**

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_a221oi_1	A1->Y (RF)	0.01860	0.00100	**0.03855**	0.32940	0.12960	**0.56921**	2.50740	0.60000	**2.93377**
	A2->Y (RF)	0.01860	0.00100	**0.04076**	0.32940	0.12960	**0.54024**	2.50740	0.60000	**2.70326**
	B1->Y (RF)	0.01860	0.00100	**0.03425**	0.32940	0.12960	**0.56068**	2.50740	0.60000	**2.92316**
	B2->Y (RF)	0.01860	0.00100	**0.03674**	0.32940	0.12960	**0.53197**	2.50740	0.60000	**2.69264**
	C1->Y (RF)	0.01860	0.00100	**0.01916**	0.32940	0.12960	**0.38796**	2.50740	0.60000	**2.15152**

Delay(ns) to Y 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_a221oi_1	A1->Y (FR)	(B1 * !B2)	0.01860	0.00100	**0.07009**	0.32940	0.12960	**0.86327**	2.50740	0.60000	**3.95992**
	A1->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.06049**	0.32940	0.12960	**0.85581**	2.50740	0.60000	**3.96006**
	A1->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.05509**	0.32940	0.12960	**0.74079**	2.50740	0.60000	**3.49017**
	A2->Y (FR)	(B1 * !B2)	0.01860	0.00100	**0.07804**	0.32940	0.12960	**0.86966**	2.50740	0.60000	**3.96143**
	A2->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.06865**	0.32940	0.12960	**0.86227**	2.50740	0.60000	**3.96163**
	A2->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.06176**	0.32940	0.12960	**0.74553**	2.50740	0.60000	**3.49080**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.06271**	0.32940	0.12960	**0.87823**	2.50740	0.60000	**4.18304**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.05308**	0.32940	0.12960	**0.86983**	2.50740	0.60000	**4.17923**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.04503**	0.32940	0.12960	**0.74243**	2.50740	0.60000	**3.61682**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.07064**	0.32940	0.12960	**0.88387**	2.50740	0.60000	**4.18143**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.06128**	0.32940	0.12960	**0.87540**	2.50740	0.60000	**4.17832**
	B2->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.05164**	0.32940	0.12960	**0.74654**	2.50740	0.60000	**3.61440**
	C1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.04598**	0.32940	0.12960	**0.88238**	2.50740	0.60000	**4.34926**

Delay(ns) to Y 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_a221oi_1	A1->Y (RF)	(B1 * !B2)	0.01860	0.00100	**0.03766**	0.32940	0.12960	**0.56903**	2.50740	0.60000	**2.93337**
	A1->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.03696**	0.32940	0.12960	**0.56658**	2.50740	0.60000	**2.93074**
	A1->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.03855**	0.32940	0.12960	**0.56921**	2.50740	0.60000	**2.93377**
	A2->Y (RF)	(B1 * !B2)	0.01860	0.00100	**0.03987**	0.32940	0.12960	**0.54009**	2.50740	0.60000	**2.70174**
	A2->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.03917**	0.32940	0.12960	**0.53771**	2.50740	0.60000	**2.69975**
	A2->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.04076**	0.32940	0.12960	**0.54024**	2.50740	0.60000	**2.70326**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.03425**	0.32940	0.12960	**0.56068**	2.50740	0.60000	**2.92316**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03373**	0.32940	0.12960	**0.55828**	2.50740	0.60000	**2.92019**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.03341**	0.32940	0.12960	**0.55793**	2.50740	0.60000	**2.92043**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.03674**	0.32940	0.12960	**0.53197**	2.50740	0.60000	**2.69264**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03622**	0.32940	0.12960	**0.52961**	2.50740	0.60000	**2.68999**
	B2->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.03591**	0.32940	0.12960	**0.52927**	2.50740	0.60000	**2.69013**
	C1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01916**	0.32940	0.12960	**0.38796**	2.50740	0.60000	**2.15152**

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_a221oi_1	A1	0.01860	0.00100	**0.01007**	0.32940	0.12960	**0.01047**	2.50740	0.60000	**0.01214**
	A2	0.01860	0.00100	**0.01020**	0.32940	0.12960	**0.01049**	2.50740	0.60000	**0.01215**
	B1	0.01860	0.00100	**0.00800**	0.32940	0.12960	**0.00813**	2.50740	0.60000	**0.01108**
	B2	0.01860	0.00100	**0.00816**	0.32940	0.12960	**0.00810**	2.50740	0.60000	**0.01062**
	C1	0.01860	0.00100	**0.00405**	0.32940	0.12960	**0.00471**	2.50740	0.60000	**0.00781**

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_a221oi_1	A1	0.01860	0.00100	**0.00583**	0.32940	0.12960	**0.00584**	2.50740	0.60000	**0.00710**
	A2	0.01860	0.00100	**0.00789**	0.32940	0.12960	**0.00781**	2.50740	0.60000	**0.00895**
	B1	0.01860	0.00100	**0.00311**	0.32940	0.12960	**0.00323**	2.50740	0.60000	**0.00484**
	B2	0.01860	0.00100	**0.00525**	0.32940	0.12960	**0.00524**	2.50740	0.60000	**0.00670**
	C1	0.01860	0.00100	**0.00378**	0.32940	0.12960	**0.00416**	2.50740	0.60000	**0.00734**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1	(B1 * !B2)	0.01860	0.00100	**0.01007**	0.32940	0.12960	**0.01047**	2.50740	0.60000	**0.01214**
	A1	(!B1 * B2)	0.01860	0.00100	**0.00974**	0.32940	0.12960	**0.00986**	2.50740	0.60000	**0.01213**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.01218**	0.32940	0.12960	**0.01222**	2.50740	0.60000	**0.01509**
	A2	(B1 * !B2)	0.01860	0.00100	**0.01020**	0.32940	0.12960	**0.01049**	2.50740	0.60000	**0.01215**
	A2	(!B1 * B2)	0.01860	0.00100	**0.00995**	0.32940	0.12960	**0.01026**	2.50740	0.60000	**0.01194**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.01235**	0.32940	0.12960	**0.01207**	2.50740	0.60000	**0.01574**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00832**	0.32940	0.12960	**0.00877**	2.50740	0.60000	**0.01077**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00798**	0.32940	0.12960	**0.00814**	2.50740	0.60000	**0.01035**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00800**	0.32940	0.12960	**0.00813**	2.50740	0.60000	**0.01108**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00844**	0.32940	0.12960	**0.00812**	2.50740	0.60000	**0.01074**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00816**	0.32940	0.12960	**0.00851**	2.50740	0.60000	**0.01063**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.00816**	0.32940	0.12960	**0.00810**	2.50740	0.60000	**0.01062**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00405**	0.32940	0.12960	**0.00471**	2.50740	0.60000	**0.00781**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a221oi_1	A1	(B1 * !B2)	0.01860	0.00100	**0.00794**	0.32940	0.12960	**0.00784**	2.50740	0.60000	**0.00926**
	A1	(!B1 * B2)	0.01860	0.00100	**0.00583**	0.32940	0.12960	**0.00584**	2.50740	0.60000	**0.00710**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.00474**	0.32940	0.12960	**0.00451**	2.50740	0.60000	**0.00613**
	A2	(B1 * !B2)	0.01860	0.00100	**0.01000**	0.32940	0.12960	**0.00973**	2.50740	0.60000	**0.01101**
	A2	(!B1 * B2)	0.01860	0.00100	**0.00789**	0.32940	0.12960	**0.00781**	2.50740	0.60000	**0.00895**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.00678**	0.32940	0.12960	**0.00650**	2.50740	0.60000	**0.00809**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00533**	0.32940	0.12960	**0.00556**	2.50740	0.60000	**0.00678**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00322**	0.32940	0.12960	**0.00345**	2.50740	0.60000	**0.00472**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00311**	0.32940	0.12960	**0.00323**	2.50740	0.60000	**0.00484**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00747**	0.32940	0.12960	**0.00739**	2.50740	0.60000	**0.00862**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00536**	0.32940	0.12960	**0.00547**	2.50740	0.60000	**0.00655**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.00525**	0.32940	0.12960	**0.00524**	2.50740	0.60000	**0.00670**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00378**	0.32940	0.12960	**0.00416**	2.50740	0.60000	**0.00734**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	**(B1 * B2 * !C1)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	**(B1 * B2 * !C1)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00063**	0.32940	**0.00064**	2.50740	**0.00064**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00063**	0.32940	**-0.00064**	2.50740	**-0.00064**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	C1	0.01860	**0.00082**	0.32940	**0.00086**	2.50740	**0.00093**
	(A1 * A2 * !C1)	0.01860	**0.00063**	0.32940	**0.00064**	2.50740	**0.00064**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	C1	0.01860	**-0.00016**	0.32940	**-0.00016**	2.50740	**-0.00016**
	(A1 * A2 * !C1)	0.01860	**-0.00063**	0.32940	**-0.00064**	2.50740	**-0.00064**

Passive power(pJ) for B2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00065**	0.32940	**0.00066**	2.50740	**0.00067**

Passive power(pJ) for B2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00065**	0.32940	**-0.00066**	2.50740	**-0.00067**

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	C1	0.01860	**0.00083**	0.32940	**0.00089**	2.50740	**0.00095**
	(A1 * A2 * !C1)	0.01860	**0.00065**	0.32940	**0.00066**	2.50740	**0.00067**

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	C1	0.01860	**-0.00018**	0.32940	**-0.00018**	2.50740	**-0.00018**
	(A1 * A2 * !C1)	0.01860	**-0.00065**	0.32940	**-0.00066**	2.50740	**-0.00067**

Passive power(pJ) for C1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00061**	0.32940	**0.00061**	2.50740	**0.00061**

Passive power(pJ) for C1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00071**	0.32940	**0.00074**	2.50740	**0.00075**

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	(B1 * B2)	0.01860	**0.00061**	0.32940	**0.00061**	2.50740	**0.00061**

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	(B1 * B2)	0.01860	**0.00071**	0.32940	**0.00074**	2.50740	**0.00075**

A22OI

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

INPUT				OUTPUT
A1	A2	B1	B2	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
sg13g2_a22oi_1	10.84860

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A1	A2	B1	B2	Y
sg13g2_a22oi_1	0.00292	0.00329	0.00377	0.00381	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	159.67300	355.45600	512.41900

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_a22oi_1	A1->Y (FR)	0.01860	0.00100	**0.03315**	0.32940	0.06480	**0.33332**	2.50740	0.30000	**1.72281**
	A2->Y (FR)	0.01860	0.00100	**0.03699**	0.32940	0.06480	**0.33785**	2.50740	0.30000	**1.72908**
	B1->Y (FR)	0.01860	0.00100	**0.02714**	0.32940	0.06480	**0.33888**	2.50740	0.30000	**1.80683**
	B2->Y (FR)	0.01860	0.00100	**0.02314**	0.32940	0.06480	**0.33417**	2.50740	0.30000	**1.79955**

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_a22oi_1	A1->Y (RF)	0.01860	0.00100	**0.03686**	0.32940	0.06480	**0.36650**	2.50740	0.30000	**1.91052**
	A2->Y (RF)	0.01860	0.00100	**0.03922**	0.32940	0.06480	**0.34062**	2.50740	0.30000	**1.72855**
	B1->Y (RF)	0.01860	0.00100	**0.02810**	0.32940	0.06480	**0.32737**	2.50740	0.30000	**1.71149**
	B2->Y (RF)	0.01860	0.00100	**0.02518**	0.32940	0.06480	**0.35241**	2.50740	0.30000	**1.89194**

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_a22oi_1	A1	0.01860	0.00100	**0.00344**	0.32940	0.06480	**0.00351**	2.50740	0.30000	**0.00860**
	A2	0.01860	0.00100	**0.00449**	0.32940	0.06480	**0.00443**	2.50740	0.30000	**0.00957**
	B1	0.01860	0.00100	**0.00177**	0.32940	0.06480	**0.00215**	2.50740	0.30000	**0.00853**
	B2	0.01860	0.00100	**0.00156**	0.32940	0.06480	**0.00209**	2.50740	0.30000	**0.00839**

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_a22oi_1	A1	0.01860	0.00100	**0.00024**	0.32940	0.06480	**0.00070**	2.50740	0.30000	**0.00654**
	A2	0.01860	0.00100	**0.00173**	0.32940	0.06480	**0.00199**	2.50740	0.30000	**0.00735**
	B1	0.01860	0.00100	**-0.00177**	0.32940	0.06480	**-0.00215**	2.50740	0.30000	**0.00099**
	B2	0.01860	0.00100	**-0.00156**	0.32940	0.06480	**-0.00209**	2.50740	0.30000	**0.00165**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00393**	0.32940	**0.00359**	2.50740	**0.00351**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00499**	0.32940	**0.00496**	2.50740	**0.00495**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00452**	0.32940	**0.00417**	2.50740	**0.00411**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00410**	0.32940	**0.00407**	2.50740	**0.00407**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00903**	0.32940	**0.00929**	2.50740	**0.00960**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00154**	0.32940	**0.00156**	2.50740	**0.00157**

Passive power(pJ) for B2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00706**	0.32940	**0.00734**	2.50740	**0.00764**

Passive power(pJ) for B2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00147**	0.32940	**0.00151**	2.50740	**0.00152**

AND2x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and2_2	10.88640
sg13g2_and2_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_2	0.00272	0.00275	0.60000
sg13g2_and2_1	0.00274	0.00277	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_2	376.01900	422.90000	475.39400
sg13g2_and2_1	218.16900	284.75100	341.22400

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_2	A->X (RR)	0.01860	0.00100	**0.05846**	0.32940	0.12960	**0.27048**	2.50740	0.60000	**0.90561**
	B->X (RR)	0.01860	0.00100	**0.06100**	0.32940	0.12960	**0.26370**	2.50740	0.60000	**0.88166**
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.04730**	0.32940	0.06480	**0.23476**	2.50740	0.30000	**0.83469**
	B->X (RR)	0.01860	0.00100	**0.05004**	0.32940	0.06480	**0.23265**	2.50740	0.30000	**0.81782**

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_2	A->X (FF)	0.01860	0.00100	**0.04839**	0.32940	0.12960	**0.23653**	2.50740	0.60000	**0.74711**
	B->X (FF)	0.01860	0.00100	**0.05163**	0.32940	0.12960	**0.24674**	2.50740	0.60000	**0.77458**
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.03959**	0.32940	0.06480	**0.20380**	2.50740	0.30000	**0.67574**
	B->X (FF)	0.01860	0.00100	**0.04308**	0.32940	0.06480	**0.21548**	2.50740	0.30000	**0.70666**

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_2	**A**	0.01860	0.00100	**0.01317**	0.32940	0.12960	**0.01481**	2.50740	0.60000	**0.03096**
	B	0.01860	0.00100	**0.01499**	0.32940	0.12960	**0.01612**	2.50740	0.60000	**0.03176**
sg13g2_and2_1	**A**	0.01860	0.00100	**0.00797**	0.32940	0.06480	**0.00955**	2.50740	0.30000	**0.02750**
	B	0.01860	0.00100	**0.00984**	0.32940	0.06480	**0.01082**	2.50740	0.30000	**0.02782**

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_2	**A**	0.01860	0.00100	**0.01160**	0.32940	0.12960	**0.01345**	2.50740	0.60000	**0.03019**
	B	0.01860	0.00100	**0.01169**	0.32940	0.12960	**0.01394**	2.50740	0.60000	**0.03060**
sg13g2_and2_1	**A**	0.01860	0.00100	**0.00692**	0.32940	0.06480	**0.00873**	2.50740	0.30000	**0.02622**
	B	0.01860	0.00100	**0.00705**	0.32940	0.06480	**0.00882**	2.50740	0.30000	**0.02625**

AND3x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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_2	12.70080
sg13g2_and3_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_2	0.00254	0.00270	0.00273	0.60000
sg13g2_and3_1	0.00255	0.00272	0.00273	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_2	378.68700	477.15400	575.86100
sg13g2_and3_1	220.83800	329.15700	472.36100

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_2	A->X (RR)	0.01860	0.00100	**0.07882**	0.32940	0.12960	**0.30644**	2.50740	0.60000	**0.98622**
	B->X (RR)	0.01860	0.00100	**0.08511**	0.32940	0.12960	**0.30374**	2.50740	0.60000	**0.97143**
	C->X (RR)	0.01860	0.00100	**0.08754**	0.32940	0.12960	**0.29373**	2.50740	0.60000	**0.92662**
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.06267**	0.32940	0.06480	**0.26405**	2.50740	0.30000	**0.90467**
	B->X (RR)	0.01860	0.00100	**0.06910**	0.32940	0.06480	**0.26456**	2.50740	0.30000	**0.89670**
	C->X (RR)	0.01860	0.00100	**0.07149**	0.32940	0.06480	**0.25833**	2.50740	0.30000	**0.85996**

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_2	A->X (FF)	0.01860	0.00100	**0.05063**	0.32940	0.12960	**0.24174**	2.50740	0.60000	**0.74307**
	B->X (FF)	0.01860	0.00100	**0.05411**	0.32940	0.12960	**0.25168**	2.50740	0.60000	**0.76992**
	C->X (FF)	0.01860	0.00100	**0.05632**	0.32940	0.12960	**0.25901**	2.50740	0.60000	**0.79689**
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.04210**	0.32940	0.06480	**0.20999**	2.50740	0.30000	**0.67308**
	B->X (FF)	0.01860	0.00100	**0.04571**	0.32940	0.06480	**0.22155**	2.50740	0.30000	**0.70170**
	C->X (FF)	0.01860	0.00100	**0.04786**	0.32940	0.06480	**0.22982**	2.50740	0.30000	**0.73199**

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_2	A	0.01860	0.00100	**0.01566**	0.32940	0.12960	**0.01638**	2.50740	0.60000	**0.03168**
	B	0.01860	0.00100	**0.01658**	0.32940	0.12960	**0.01683**	2.50740	0.60000	**0.03121**
	C	0.01860	0.00100	**0.01834**	0.32940	0.12960	**0.01842**	2.50740	0.60000	**0.03278**
sg13g2_and3_1	A	0.01860	0.00100	**0.00995**	0.32940	0.06480	**0.01132**	2.50740	0.30000	**0.02765**
	B	0.01860	0.00100	**0.01097**	0.32940	0.06480	**0.01170**	2.50740	0.30000	**0.02727**
	C	0.01860	0.00100	**0.01269**	0.32940	0.06480	**0.01315**	2.50740	0.30000	**0.02891**

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_2	A	0.01860	0.00100	**0.01095**	0.32940	0.12960	**0.01257**	2.50740	0.60000	**0.02795**
	B	0.01860	0.00100	**0.01195**	0.32940	0.12960	**0.01376**	2.50740	0.60000	**0.02877**
	C	0.01860	0.00100	**0.01207**	0.32940	0.12960	**0.01389**	2.50740	0.60000	**0.02979**
sg13g2_and3_1	A	0.01860	0.00100	**0.00625**	0.32940	0.06480	**0.00776**	2.50740	0.30000	**0.02406**
	B	0.01860	0.00100	**0.00727**	0.32940	0.06480	**0.00878**	2.50740	0.30000	**0.02467**
	C	0.01860	0.00100	**0.00741**	0.32940	0.06480	**0.00892**	2.50740	0.30000	**0.02557**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**-0.00078**	0.32940	**-0.00080**	2.50740	**-0.00086**
sg13g2_and3_1	0.01860	**-0.00078**	0.32940	**-0.00080**	2.50740	**-0.00086**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**0.00078**	0.32940	**0.00080**	2.50740	**0.00086**
sg13g2_and3_1	0.01860	**0.00078**	0.32940	**0.00080**	2.50740	**0.00086**

AND4x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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_2	16.32960
sg13g2_and4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_2	0.00243	0.00244	0.00282	0.00277	0.60000
sg13g2_and4_1	0.00244	0.00244	0.00282	0.00277	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_2	381.38000	515.19400	682.47800
sg13g2_and4_1	223.52500	362.26500	603.43600

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_2	A->X (RR)	0.01860	0.00100	**0.10004**	0.32940	0.12960	**0.34042**	2.50740	0.60000	**1.05503**
	B->X (RR)	0.01860	0.00100	**0.10938**	0.32940	0.12960	**0.34080**	2.50740	0.60000	**1.04478**
	C->X (RR)	0.01860	0.00100	**0.11474**	0.32940	0.12960	**0.33405**	2.50740	0.60000	**1.00876**
	D->X (RR)	0.01860	0.00100	**0.11730**	0.32940	0.12960	**0.32732**	2.50740	0.60000	**0.96463**
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.07922**	0.32940	0.06480	**0.29344**	2.50740	0.30000	**0.97079**
	B->X (RR)	0.01860	0.00100	**0.08876**	0.32940	0.06480	**0.29646**	2.50740	0.30000	**0.96934**
	C->X (RR)	0.01860	0.00100	**0.09407**	0.32940	0.06480	**0.29302**	2.50740	0.30000	**0.93889**
	D->X (RR)	0.01860	0.00100	**0.09662**	0.32940	0.06480	**0.28841**	2.50740	0.30000	**0.89998**

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_2	A->X (FF)	0.01860	0.00100	**0.05231**	0.32940	0.12960	**0.24522**	2.50740	0.60000	**0.73752**
	B->X (FF)	0.01860	0.00100	**0.05580**	0.32940	0.12960	**0.25448**	2.50740	0.60000	**0.76164**
	C->X (FF)	0.01860	0.00100	**0.05830**	0.32940	0.12960	**0.26172**	2.50740	0.60000	**0.78804**
	D->X (FF)	0.01860	0.00100	**0.06013**	0.32940	0.12960	**0.26822**	2.50740	0.60000	**0.81226**
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.04427**	0.32940	0.06480	**0.21411**	2.50740	0.30000	**0.66538**
	B->X (FF)	0.01860	0.00100	**0.04789**	0.32940	0.06480	**0.22478**	2.50740	0.30000	**0.69414**
	C->X (FF)	0.01860	0.00100	**0.05033**	0.32940	0.06480	**0.23322**	2.50740	0.30000	**0.72211**
	D->X (FF)	0.01860	0.00100	**0.05196**	0.32940	0.06480	**0.24049**	2.50740	0.30000	**0.75047**

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_2	A	0.01860	0.00100	**0.01660**	0.32940	0.12960	**0.01652**	2.50740	0.60000	**0.03063**
	B	0.01860	0.00100	**0.01866**	0.32940	0.12960	**0.01812**	2.50740	0.60000	**0.03101**
	C	0.01860	0.00100	**0.01993**	0.32940	0.12960	**0.01913**	2.50740	0.60000	**0.03250**
	D	0.01860	0.00100	**0.01974**	0.32940	0.12960	**0.01878**	2.50740	0.60000	**0.03281**
sg13g2_and4_1	A	0.01860	0.00100	**0.01045**	0.32940	0.06480	**0.01154**	2.50740	0.30000	**0.02649**
	B	0.01860	0.00100	**0.01242**	0.32940	0.06480	**0.01294**	2.50740	0.30000	**0.02729**
	C	0.01860	0.00100	**0.01370**	0.32940	0.06480	**0.01402**	2.50740	0.30000	**0.02849**
	D	0.01860	0.00100	**0.01349**	0.32940	0.06480	**0.01372**	2.50740	0.30000	**0.02823**

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_2	A	0.01860	0.00100	**0.01131**	0.32940	0.12960	**0.01291**	2.50740	0.60000	**0.02743**
	B	0.01860	0.00100	**0.01164**	0.32940	0.12960	**0.01318**	2.50740	0.60000	**0.02807**
	C	0.01860	0.00100	**0.01244**	0.32940	0.12960	**0.01402**	2.50740	0.60000	**0.02953**
	D	0.01860	0.00100	**0.01252**	0.32940	0.12960	**0.01421**	2.50740	0.60000	**0.02936**
sg13g2_and4_1	A	0.01860	0.00100	**0.00663**	0.32940	0.06480	**0.00793**	2.50740	0.30000	**0.02312**
	B	0.01860	0.00100	**0.00694**	0.32940	0.06480	**0.00815**	2.50740	0.30000	**0.02345**
	C	0.01860	0.00100	**0.00774**	0.32940	0.06480	**0.00899**	2.50740	0.30000	**0.02474**
	D	0.01860	0.00100	**0.00781**	0.32940	0.06480	**0.00916**	2.50740	0.30000	**0.02542**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00033**	0.32940	**-0.00031**	2.50740	**-0.00031**
sg13g2_and4_1	0.01860	**-0.00032**	0.32940	**-0.00031**	2.50740	**-0.00031**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00093**	0.32940	**0.00093**	2.50740	**0.00093**
sg13g2_and4_1	0.01860	**0.00093**	0.32940	**0.00093**	2.50740	**0.00093**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(B * C * !D) + (B * !C)**	0.01860	**-0.00033**	0.32940	**-0.00031**	2.50740	**-0.00031**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**-0.00032**	0.32940	**-0.00031**	2.50740	**-0.00031**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(B * C * !D) + (B * !C)**	0.01860	**0.00093**	0.32940	**0.00093**	2.50740	**0.00093**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**0.00093**	0.32940	**0.00093**	2.50740	**0.00093**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00041**	0.32940	**-0.00040**	2.50740	**-0.00040**
sg13g2_and4_1	0.01860	**-0.00041**	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_and4_2	0.01860	**0.00066**	0.32940	**0.00066**	2.50740	**0.00067**
sg13g2_and4_1	0.01860	**0.00066**	0.32940	**0.00066**	2.50740	**0.00067**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * C * !D) + (A * !C)**	0.01860	**-0.00041**	0.32940	**-0.00040**	2.50740	**-0.00040**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**-0.00041**	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_and4_2	**(A * C * !D) + (A * !C)**	0.01860	**0.00066**	0.32940	**0.00066**	2.50740	**0.00067**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**0.00066**	0.32940	**0.00066**	2.50740	**0.00067**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_and4_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_and4_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * !B * D) + (!A * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * !B * D) + (!A * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00182**	0.32940	**0.00181**	2.50740	**0.00180**
sg13g2_and4_1	0.01860	**0.00182**	0.32940	**0.00181**	2.50740	**0.00180**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00013**	0.32940	**0.00004**	2.50740	**0.00000**
sg13g2_and4_1	0.01860	**0.00013**	0.32940	**0.00004**	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_and4_2	**(A * !B * C) + (!A * C)**	0.01860	**0.00182**	0.32940	**0.00181**	2.50740	**0.00180**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00182**	0.32940	**0.00181**	2.50740	**0.00180**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	**(A * !B * C) + (!A * C)**	0.01860	**0.00013**	0.32940	**0.00004**	2.50740	**0.00000**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00013**	0.32940	**0.00004**	2.50740	**0.00000**

AO21x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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_2	14.51520
sg13g2_a21o_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_2	0.00321	0.00317	0.00279	0.60000
sg13g2_a21o_1	0.00300	0.00307	0.00264	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_2	433.38100	496.65500	579.98400
sg13g2_a21o_1	298.78800	357.49200	398.18900

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_2	A1->X (RR)	0.01860	0.00100	**0.06186**	0.32940	0.12960	**0.27642**	2.50740	0.60000	**0.90619**
	A2->X (RR)	0.01860	0.00100	**0.06400**	0.32940	0.12960	**0.26811**	2.50740	0.60000	**0.87929**
	B1->X (RR)	0.01860	0.00100	**0.04050**	0.32940	0.12960	**0.24025**	2.50740	0.60000	**0.81168**
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.05757**	0.32940	0.06480	**0.25955**	2.50740	0.30000	**0.88895**
	A2->X (RR)	0.01860	0.00100	**0.05986**	0.32940	0.06480	**0.25366**	2.50740	0.30000	**0.86616**
	B1->X (RR)	0.01860	0.00100	**0.03792**	0.32940	0.06480	**0.22490**	2.50740	0.30000	**0.79517**

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_2	A1->X (FF)	0.01860	0.00100	**0.07704**	0.32940	0.12960	**0.26318**	2.50740	0.60000	**0.79304**
	A2->X (FF)	0.01860	0.00100	**0.08360**	0.32940	0.12960	**0.27507**	2.50740	0.60000	**0.81910**
	B1->X (FF)	0.01860	0.00100	**0.07725**	0.32940	0.12960	**0.28428**	2.50740	0.60000	**0.86978**
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.06132**	0.32940	0.06480	**0.22672**	2.50740	0.30000	**0.70580**
	A2->X (FF)	0.01860	0.00100	**0.06724**	0.32940	0.06480	**0.23853**	2.50740	0.30000	**0.73458**
	B1->X (FF)	0.01860	0.00100	**0.06051**	0.32940	0.06480	**0.24086**	2.50740	0.30000	**0.76864**

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_2	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.04050**	0.32940	0.12960	**0.24025**	2.50740	0.60000	**0.81168**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03907**	0.32940	0.12960	**0.23030**	2.50740	0.60000	**0.78354**
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.03792**	0.32940	0.06480	**0.22490**	2.50740	0.30000	**0.79517**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03587**	0.32940	0.06480	**0.21380**	2.50740	0.30000	**0.76507**

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_2	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.07725**	0.32940	0.12960	**0.28428**	2.50740	0.60000	**0.86978**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.06930**	0.32940	0.12960	**0.26956**	2.50740	0.60000	**0.84273**
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.06051**	0.32940	0.06480	**0.24086**	2.50740	0.30000	**0.76864**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.05367**	0.32940	0.06480	**0.22614**	2.50740	0.30000	**0.73814**

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_2	A1	0.01860	0.00100	**0.01405**	0.32940	0.12960	**0.01571**	2.50740	0.60000	**0.03379**
	A2	0.01860	0.00100	**0.01619**	0.32940	0.12960	**0.01725**	2.50740	0.60000	**0.03423**
	B1	0.01860	0.00100	**0.01200**	0.32940	0.12960	**0.01372**	2.50740	0.60000	**0.03384**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00893**	0.32940	0.06480	**0.01035**	2.50740	0.30000	**0.02765**
	A2	0.01860	0.00100	**0.01077**	0.32940	0.06480	**0.01171**	2.50740	0.30000	**0.02801**
	B1	0.01860	0.00100	**0.00697**	0.32940	0.06480	**0.00847**	2.50740	0.30000	**0.02796**

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_2	A1	0.01860	0.00100	**0.01553**	0.32940	0.12960	**0.01629**	2.50740	0.60000	**0.03348**
	A2	0.01860	0.00100	**0.01558**	0.32940	0.12960	**0.01656**	2.50740	0.60000	**0.03390**
	B1	0.01860	0.00100	**0.01258**	0.32940	0.12960	**0.01444**	2.50740	0.60000	**0.03404**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01017**	0.32940	0.06480	**0.01097**	2.50740	0.30000	**0.02766**
	A2	0.01860	0.00100	**0.01019**	0.32940	0.06480	**0.01106**	2.50740	0.30000	**0.02731**
	B1	0.01860	0.00100	**0.00716**	0.32940	0.06480	**0.00908**	2.50740	0.30000	**0.02724**

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_2	B1	(A1 * !A2)	0.01860	0.00100	**0.01411**	0.32940	0.12960	**0.01626**	2.50740	0.60000	**0.03670**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01200**	0.32940	0.12960	**0.01372**	2.50740	0.60000	**0.03384**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00879**	0.32940	0.06480	**0.01046**	2.50740	0.30000	**0.03004**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00697**	0.32940	0.06480	**0.00847**	2.50740	0.30000	**0.02796**

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_2	B1	(A1 * !A2)	0.01860	0.00100	**0.01281**	0.32940	0.12960	**0.01463**	2.50740	0.60000	**0.03404**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01258**	0.32940	0.12960	**0.01444**	2.50740	0.60000	**0.03404**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00735**	0.32940	0.06480	**0.00913**	2.50740	0.30000	**0.02755**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00716**	0.32940	0.06480	**0.00908**	2.50740	0.30000	**0.02724**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	0.01860	**-0.00014**	0.32940	**-0.00016**	2.50740	**-0.00015**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	0.01860	**0.00016**	0.32940	**0.00016**	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_2	(A2 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	(A2 * B1)	0.01860	**-0.00014**	0.32940	**-0.00016**	2.50740	**-0.00015**
	(!A2 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	**(A2 * B1)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**0.00016**	0.32940	**0.00016**	2.50740	**0.00015**
	(!A2 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**-0.00006**	0.32940	**-0.00005**	2.50740	**-0.00005**
sg13g2_a21o_1	0.01860	**-0.00011**	0.32940	**-0.00013**	2.50740	**-0.00013**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00006**	0.32940	**0.00005**	2.50740	**0.00005**
sg13g2_a21o_1	0.01860	**0.00013**	0.32940	**0.00013**	2.50740	**0.00013**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	**(A1 * B1)**	0.01860	**-0.00006**	0.32940	**-0.00005**	2.50740	**-0.00005**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	**(A1 * B1)**	0.01860	**-0.00011**	0.32940	**-0.00013**	2.50740	**-0.00013**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A1 * B1)	0.01860	**0.00006**	0.32940	**0.00005**	2.50740	**0.00005**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00013**	0.32940	**0.00013**	2.50740	**0.00013**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00062**	0.32940	**0.00063**	2.50740	**0.00063**
sg13g2_a21o_1	0.01860	**0.00060**	0.32940	**0.00060**	2.50740	**0.00060**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00042**	0.32940	**0.00043**	2.50740	**0.00044**
sg13g2_a21o_1	0.01860	**0.00055**	0.32940	**0.00056**	2.50740	**0.00057**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A1 * A2)	0.01860	**0.00062**	0.32940	**0.00063**	2.50740	**0.00063**
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00060**	0.32940	**0.00060**	2.50740	**0.00060**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	(A1 * A2)	0.01860	**0.00042**	0.32940	**0.00043**	2.50740	**0.00044**
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00055**	0.32940	**0.00056**	2.50740	**0.00057**

BTLx

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00625	0.01878	2.40000
sg13g2_ebufn_4	0.00320	0.01126	1.20000
sg13g2_ebufn_2	0.00284	0.00690	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	374.50000	1634.34000	3019.60000
sg13g2_ebufn_4	266.08800	876.33600	1549.32000
sg13g2_ebufn_2	218.52800	523.63300	835.47100

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	0.01997	**0.05220**	0.32940	0.53737	**0.38936**	2.50740	2.41897	**1.46150**
	TE_B->Z (RR)	0.01860	0.01997	**0.05082**	0.32940	0.53737	**0.13685**	2.50740	2.41897	**0.31857**
	TE_B->Z (FR)	0.01860	0.01997	**0.02556**	0.32940	0.53737	**0.36569**	2.50740	2.41897	**1.84592**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01062	**0.05338**	0.32940	0.26882	**0.38959**	2.50740	1.20962	**1.45992**
	TE_B->Z (RR)	0.01860	0.01062	**0.04051**	0.32940	0.26882	**0.10444**	2.50740	1.20962	**0.22498**
	TE_B->Z (FR)	0.01860	0.01062	**0.02504**	0.32940	0.26882	**0.36393**	2.50740	1.20962	**1.84210**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00592	**0.04518**	0.32940	0.13452	**0.35746**	2.50740	0.60492	**1.38630**
	TE_B->Z (RR)	0.01860	0.00592	**0.03528**	0.32940	0.13452	**0.08825**	2.50740	0.60492	**0.19406**
	TE_B->Z (FR)	0.01860	0.00592	**0.02498**	0.32940	0.13452	**0.35999**	2.50740	0.60492	**1.82725**

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	0.02990	**0.05820**	0.32940	0.54730	**0.34297**	2.50740	2.42890	**1.18683**
	TE_B->Z (RF)	0.01860	0.02990	**0.02181**	0.32940	0.54730	**0.04782**	2.50740	2.42890	**0.24303**
	TE_B->Z (FF)	0.01860	0.02990	**0.06658**	0.32940	0.54730	**0.44687**	2.50740	2.42890	**1.62494**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01566	**0.05962**	0.32940	0.27386	**0.34465**	2.50740	1.21466	**1.18926**
	TE_B->Z (RF)	0.01860	0.01566	**0.02047**	0.32940	0.27386	**0.04638**	2.50740	1.21466	**0.24025**
	TE_B->Z (FF)	0.01860	0.01566	**0.05158**	0.32940	0.27386	**0.40253**	2.50740	1.21466	**1.52263**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00847	**0.04674**	0.32940	0.13707	**0.30664**	2.50740	0.60747	**1.10346**
	TE_B->Z (RF)	0.01860	0.00847	**0.01944**	0.32940	0.13707	**0.04499**	2.50740	0.60747	**0.23683**
	TE_B->Z (FF)	0.01860	0.00847	**0.04439**	0.32940	0.13707	**0.37396**	2.50740	0.60747	**1.45577**

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	0.01997	**0.04941**	0.32940	0.53737	**0.05514**	2.50740	2.41897	**0.05729**
	TE_B	0.01860	0.01997	**0.00868**	0.32940	0.53737	**0.00789**	2.50740	2.41897	**0.00742**
sg13g2_ebufn_4	A	0.01860	0.01062	**0.02490**	0.32940	0.26882	**0.02735**	2.50740	1.20962	**0.02662**
	TE_B	0.01860	0.01062	**0.00463**	0.32940	0.26882	**0.00415**	2.50740	1.20962	**0.00338**
sg13g2_ebufn_2	A	0.01860	0.00592	**0.01288**	0.32940	0.13452	**0.01340**	2.50740	0.60492	**0.01213**
	TE_B	0.01860	0.00592	**0.00248**	0.32940	0.13452	**0.00223**	2.50740	0.60492	**0.00177**

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	0.02990	**0.04268**	0.32940	0.54730	**0.04477**	2.50740	2.42890	**0.04126**
	TE_B	0.01860	0.02990	**0.00964**	0.32940	0.54730	**0.11750**	2.50740	2.42890	**0.51355**
sg13g2_ebufn_4	A	0.01860	0.01566	**0.02146**	0.32940	0.27386	**0.02263**	2.50740	1.21466	**0.02108**
	TE_B	0.01860	0.01566	**0.00533**	0.32940	0.27386	**0.05853**	2.50740	1.21466	**0.25650**
sg13g2_ebufn_2	A	0.01860	0.00847	**0.01070**	0.32940	0.13707	**0.01131**	2.50740	0.60747	**0.01015**
	TE_B	0.01860	0.00847	**0.00286**	0.32940	0.13707	**0.02942**	2.50740	0.60747	**0.12837**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01051**	0.32940	**0.01431**	2.50740	**0.06603**
sg13g2_ebufn_4	0.01860	**0.00570**	0.32940	**0.00752**	2.50740	**0.03326**
sg13g2_ebufn_2	0.01860	**0.00342**	0.32940	**0.00534**	2.50740	**0.02828**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.00965**	0.32940	**0.01416**	2.50740	**0.06412**
sg13g2_ebufn_4	0.01860	**0.00521**	0.32940	**0.00737**	2.50740	**0.03224**
sg13g2_ebufn_2	0.01860	**0.00331**	0.32940	**0.00542**	2.50740	**0.02760**

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	**-0.00351**	0.32940	**-0.00351**	2.50740	**0.01927**
sg13g2_ebufn_4	0.01860	**-0.00066**	0.32940	**0.00020**	2.50740	**0.02500**
sg13g2_ebufn_2	0.01860	**0.00027**	0.32940	**0.00161**	2.50740	**0.02412**

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	**0.06418**	0.32940	**0.06555**	2.50740	**0.08861**
sg13g2_ebufn_4	0.01860	**0.03277**	0.32940	**0.03489**	2.50740	**0.05936**
sg13g2_ebufn_2	0.01860	**0.01715**	0.32940	**0.01930**	2.50740	**0.04111**

BUx

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_16	0.01851	4.80000
sg13g2_buf_8	0.00928	2.40000
sg13g2_buf_4	0.00402	1.20000
sg13g2_buf_2	0.00283	0.60000
sg13g2_buf_1	0.00251	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	2211.66000	2605.74000	2999.82000
sg13g2_buf_8	1105.84000	1302.87000	1499.90000
sg13g2_buf_4	499.66200	620.31100	740.96000
sg13g2_buf_2	292.03200	338.82800	385.62400
sg13g2_buf_1	190.72100	203.43200	216.14200

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	**0.04115**	0.32940	1.03680	**0.24508**	2.50740	4.80000	**0.86189**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.04070**	0.32940	0.51840	**0.24396**	2.50740	2.40000	**0.85844**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.05071**	0.32940	0.25920	**0.27429**	2.50740	1.20000	**0.96800**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.04049**	0.32940	0.12960	**0.23946**	2.50740	0.60000	**0.85166**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.03587**	0.32940	0.06480	**0.21819**	2.50740	0.30000	**0.79991**

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	**0.04473**	0.32940	1.03680	**0.23094**	2.50740	4.80000	**0.73713**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.04420**	0.32940	0.51840	**0.23006**	2.50740	2.40000	**0.73695**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.04375**	0.32940	0.25920	**0.22557**	2.50740	1.20000	**0.68453**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.04273**	0.32940	0.12960	**0.22049**	2.50740	0.60000	**0.70914**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.03735**	0.32940	0.06480	**0.19829**	2.50740	0.30000	**0.66495**

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	**0.09418**	0.32940	1.03680	**0.10843**	2.50740	4.80000	**0.24888**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04641**	0.32940	0.51840	**0.05391**	2.50740	2.40000	**0.12327**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02277**	0.32940	0.25920	**0.02616**	2.50740	1.20000	**0.05308**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01207**	0.32940	0.12960	**0.01409**	2.50740	0.60000	**0.03450**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00698**	0.32940	0.06480	**0.00862**	2.50740	0.30000	**0.02629**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.09059**	0.32940	1.03680	**0.10883**	2.50740	4.80000	**0.24531**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04467**	0.32940	0.51840	**0.05359**	2.50740	2.40000	**0.12180**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02251**	0.32940	0.25920	**0.02614**	2.50740	1.20000	**0.05382**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01173**	0.32940	0.12960	**0.01418**	2.50740	0.60000	**0.03436**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00687**	0.32940	0.06480	**0.00886**	2.50740	0.30000	**0.02601**

DECAPx

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Footprint

Cell Name	Area
sg13g2_decap_8	12.70080
sg13g2_decap_4	7.25760

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_decap_8	2937.24000	2937.24000	2937.24000
sg13g2_decap_4	1468.60000	1468.60000	1468.60000

DFFRRx

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00174	0.00637	0.00320	0.60000	0.60000
sg13g2_dfrbp_1	0.00187	0.00685	0.00295	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	1222.37000	1384.04000	1519.45000
sg13g2_dfrbp_1	942.01400	1098.90000	1247.92000

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	**0.16323**	0.32940	0.12960	**0.35107**	2.50740	0.60000	**0.95064**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.13171**	0.32940	0.06480	**0.32175**	2.50740	0.30000	**0.89787**

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	**0.14556**	0.32940	0.12960	**0.31866**	2.50740	0.60000	**0.82043**
	RESET_B->Q (FF)	0.01860	0.00100	**0.19000**	0.32940	0.12960	**0.39461**	2.50740	0.60000	**0.98873**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.12833**	0.32940	0.06480	**0.30144**	2.50740	0.30000	**0.78890**
	RESET_B->Q (FF)	0.01860	0.00100	**0.16643**	0.32940	0.06480	**0.36804**	2.50740	0.30000	**0.95106**

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	**0.09752**	0.32940	0.12960	**0.31344**	2.50740	0.60000	**0.88066**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.14298**	0.32940	0.12960	**0.38797**	2.50740	0.60000	**1.04850**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.09832**	0.32940	0.06480	**0.30700**	2.50740	0.30000	**0.86117**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.13676**	0.32940	0.06480	**0.37193**	2.50740	0.30000	**1.02302**

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	**0.10777**	0.32940	0.12960	**0.32559**	2.50740	0.60000	**0.86118**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.10009**	0.32940	0.06480	**0.30329**	2.50740	0.30000	**0.82103**

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	**-0.14301**	2.50740	2.50740	**-0.18595**
	setup	CLK (R)	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.21546**
sg13g2_dfrbp_1	hold	CLK (R)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.14841**	2.50740	2.50740	**-0.19775**
	setup	CLK (R)	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.22432**

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	**-0.10794**	2.50740	2.50740	**-0.15348**
	setup	CLK (R)	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.20956**
sg13g2_dfrbp_1	hold	CLK (R)	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.16529**
	setup	CLK (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.21841**

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	**0.08069**	1.26300	1.26300	**0.19968**	2.50740	2.50740	**0.29811**
	removal	CLK (R)	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.29220**
sg13g2_dfrbp_1	recovery	CLK (R)	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.30696**
	removal	CLK (R)	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.30401**

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	**0.04847**	0.32940	0.12960	**0.16276**	2.50740	0.60000	**0.60036**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03805**	0.32940	0.06480	**0.09593**	2.50740	0.30000	**0.32707**

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	**0.04850**	0.32940	0.12960	**0.16422**	2.50740	0.60000	**0.60122**
	RESET_B	0.01860	0.00100	**0.03696**	0.32940	0.12960	**0.15124**	2.50740	0.60000	**0.57242**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03735**	0.32940	0.06480	**0.09588**	2.50740	0.30000	**0.32667**
	RESET_B	0.01860	0.00100	**0.02561**	0.32940	0.06480	**0.08310**	2.50740	0.30000	**0.29970**

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	**0.04854**	0.32940	0.12960	**0.16446**	2.50740	0.60000	**0.60175**
	RESET_B	0.01860	0.00100	**0.03703**	0.32940	0.12960	**0.15159**	2.50740	0.60000	**0.57381**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03736**	0.32940	0.06480	**0.09596**	2.50740	0.30000	**0.32692**
	RESET_B	0.01860	0.00100	**0.02558**	0.32940	0.06480	**0.08325**	2.50740	0.30000	**0.30029**

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	**0.04849**	0.32940	0.12960	**0.16273**	2.50740	0.60000	**0.60002**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03804**	0.32940	0.06480	**0.09591**	2.50740	0.30000	**0.32695**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00177**	0.32940	**0.00266**	2.50740	**0.01323**
sg13g2_dfrbp_1	0.01860	**0.00192**	0.32940	**0.00278**	2.50740	**0.01330**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00141**	0.32940	**0.00237**	2.50740	**0.01267**
sg13g2_dfrbp_1	0.01860	**0.00160**	0.32940	**0.00253**	2.50740	**0.01277**

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	**0.00177**	0.32940	**0.00266**	2.50740	**0.01323**
	(!CLK * RESET_B)	0.01860	**0.01452**	0.32940	**0.01532**	2.50740	**0.02730**
	(!CLK * !RESET_B)	0.01860	**-0.00004**	0.32940	**-0.00003**	2.50740	**-0.00003**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00192**	0.32940	**0.00278**	2.50740	**0.01330**
	(!CLK * RESET_B)	0.01860	**0.01258**	0.32940	**0.01342**	2.50740	**0.02541**
	(!CLK * !RESET_B)	0.01860	**0.00011**	0.32940	**0.00011**	2.50740	**0.00011**

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	**0.00141**	0.32940	**0.00237**	2.50740	**0.01267**
	(!CLK * RESET_B)	0.01860	**0.01128**	0.32940	**0.01210**	2.50740	**0.02389**
	(!CLK * !RESET_B)	0.01860	**0.00023**	0.32940	**0.00023**	2.50740	**0.00024**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00160**	0.32940	**0.00253**	2.50740	**0.01277**
	(!CLK * RESET_B)	0.01860	**0.01057**	0.32940	**0.01141**	2.50740	**0.02316**
	(!CLK * !RESET_B)	0.01860	**0.00012**	0.32940	**0.00012**	2.50740	**0.00013**

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	**0.00483**	0.32940	**0.00517**	2.50740	**0.01488**
sg13g2_dfrbp_1	0.01860	**0.00525**	0.32940	**0.00557**	2.50740	**0.01522**

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	**0.01056**	0.32940	**0.01081**	2.50740	**0.02575**
sg13g2_dfrbp_1	0.01860	**0.00950**	0.32940	**0.00979**	2.50740	**0.02475**

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	**0.00483**	0.32940	**0.00517**	2.50740	**0.01488**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00165**	0.32940	**0.00165**	2.50740	**0.00164**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01778**	0.32940	**0.01812**	2.50740	**0.03262**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00172**	0.32940	**0.00171**	2.50740	**0.00171**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00525**	0.32940	**0.00557**	2.50740	**0.01522**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00208**	0.32940	**0.00208**	2.50740	**0.00207**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01614**	0.32940	**0.01649**	2.50740	**0.03102**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00215**	0.32940	**0.00214**	2.50740	**0.00214**

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	**0.04693**	0.32940	**0.04851**	2.50740	**0.07663**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00165**	0.32940	**-0.00165**	2.50740	**-0.00164**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01056**	0.32940	**0.01081**	2.50740	**0.02575**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00172**	0.32940	**-0.00171**	2.50740	**-0.00171**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.03411**	0.32940	**0.03566**	2.50740	**0.06328**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00208**	0.32940	**-0.00208**	2.50740	**-0.00207**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00950**	0.32940	**0.00979**	2.50740	**0.02475**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00215**	0.32940	**-0.00214**	2.50740	**-0.00214**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01355**	0.32940	**0.01535**	2.50740	**0.04267**
sg13g2_dfrbp_1	0.01860	**0.01354**	0.32940	**0.01516**	2.50740	**0.04034**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.02531**	0.32940	**0.02727**	2.50740	**0.05424**
sg13g2_dfrbp_1	0.01860	**0.02369**	0.32940	**0.02553**	2.50740	**0.05104**

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	**0.01355**	0.32940	**0.01535**	2.50740	**0.04267**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01423**	0.32940	**0.01601**	2.50740	**0.04323**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01334**	0.32940	**0.01512**	2.50740	**0.04238**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01426**	0.32940	**0.01604**	2.50740	**0.04323**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01385**	0.32940	**0.01549**	2.50740	**0.04070**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01350**	0.32940	**0.01514**	2.50740	**0.04034**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01324**	0.32940	**0.01487**	2.50740	**0.04007**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01354**	0.32940	**0.01516**	2.50740	**0.04034**

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	**0.02531**	0.32940	**0.02727**	2.50740	**0.05424**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02548**	0.32940	**0.02741**	2.50740	**0.05445**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01313**	0.32940	**0.01512**	2.50740	**0.04119**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.06993**	0.32940	**0.06130**	2.50740	**0.08751**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01310**	0.32940	**0.01511**	2.50740	**0.04121**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01312**	0.32940	**0.01511**	2.50740	**0.04118**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.02369**	0.32940	**0.02553**	2.50740	**0.05104**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02375**	0.32940	**0.02553**	2.50740	**0.05103**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01352**	0.32940	**0.01529**	2.50740	**0.03979**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.04933**	0.32940	**0.05036**	2.50740	**0.07500**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01350**	0.32940	**0.01528**	2.50740	**0.03984**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01352**	0.32940	**0.01529**	2.50740	**0.03979**

DLHQ

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00247	0.00248	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	679.01900	746.96700	843.24000

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	**0.11858**	0.32940	0.06480	**0.29940**	2.50740	0.30000	**0.85412**
	GATE->Q (RR)	0.01860	0.00100	**0.10175**	0.32940	0.06480	**0.28432**	2.50740	0.30000	**0.80793**

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	**0.10730**	0.32940	0.06480	**0.26482**	2.50740	0.30000	**0.69804**
	GATE->Q (RF)	0.01860	0.00100	**0.11031**	0.32940	0.06480	**0.27369**	2.50740	0.30000	**0.70959**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.06113**	1.26300	1.26300	**-0.15651**	2.50740	2.50740	**-0.19480**
	setup	GATE (F)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.18079**	2.50740	2.50740	**0.23022**

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	**-0.02690**	1.26300	1.26300	**0.00810**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.03179**	1.26300	1.26300	**-0.00270**	2.50740	2.50740	**-0.03542**

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	**0.01847**	0.32940	0.06480	**0.01885**	2.50740	0.30000	**0.01873**
	GATE	0.01860	0.00100	**0.01594**	0.32940	0.06480	**0.01641**	2.50740	0.30000	**0.01748**

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	**0.01915**	0.32940	0.06480	**0.01974**	2.50740	0.30000	**0.01980**
	GATE	0.01860	0.00100	**0.01726**	0.32940	0.06480	**0.01827**	2.50740	0.30000	**0.01785**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00424**	0.32940	**0.00567**	2.50740	**0.02460**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00450**	0.32940	**0.00604**	2.50740	**0.02430**

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	**0.00420**	0.32940	**0.00556**	2.50740	**0.02450**
	(!GATE * !Q)	0.01860	**0.00424**	0.32940	**0.00567**	2.50740	**0.02460**

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	**0.00441**	0.32940	**0.00603**	2.50740	**0.02431**
	(!GATE * !Q)	0.01860	**0.00450**	0.32940	**0.00604**	2.50740	**0.02430**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00973**	0.32940	**0.01139**	2.50740	**0.03498**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.01857**	0.32940	**0.02062**	2.50740	**0.04359**

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	**0.00973**	0.32940	**0.01139**	2.50740	**0.03498**

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	**0.01857**	0.32940	**0.02062**	2.50740	**0.04359**

DLHRQ

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00230	0.00318	0.00238	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	775.40800	856.02000	913.95400

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	**0.12712**	0.32940	0.06480	**0.31165**	2.50740	0.30000	**0.86185**
	GATE->Q (RR)	0.01860	0.00100	**0.11496**	0.32940	0.06480	**0.30250**	2.50740	0.30000	**0.82491**

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	**0.11325**	0.32940	0.06480	**0.27254**	2.50740	0.30000	**0.71234**
	GATE->Q (RF)	0.01860	0.00100	**0.11755**	0.32940	0.06480	**0.28489**	2.50740	0.30000	**0.73148**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04555**	0.32940	0.06480	**0.22398**	2.50740	0.30000	**0.72406**

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	**-0.05868**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.17709**
	setup	GATE (F)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.17000**	2.50740	2.50740	**0.21546**

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	**-0.02934**	1.26300	1.26300	**0.00810**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.03668**	1.26300	1.26300	**-0.00270**	2.50740	2.50740	**-0.03542**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.00978**	1.26300	1.26300	**-0.07286**	2.50740	2.50740	**-0.09740**
	removal	GATE (F)	0.01860	0.01860	**0.01712**	1.26300	1.26300	**0.08095**	2.50740	2.50740	**0.10921**

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	**0.00124**	0.32940	0.06480	**0.00168**	2.50740	0.30000	**0.00142**
	GATE	0.01860	0.00100	**0.01618**	0.32940	0.06480	**0.01658**	2.50740	0.30000	**0.01780**

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	**-0.00124**	0.32940	0.06480	**-0.00168**	2.50740	0.30000	**-0.00142**
	GATE	0.01860	0.00100	**0.01610**	0.32940	0.06480	**0.01708**	2.50740	0.30000	**0.01665**
	RESET_B	0.01860	0.00100	**0.00928**	0.32940	0.06480	**0.01143**	2.50740	0.30000	**0.03211**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.02163**	0.32940	**0.02292**	2.50740	**0.04205**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.02838**	0.32940	**0.03180**	2.50740	**0.05056**

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	**0.00349**	0.32940	**0.00489**	2.50740	**0.02383**
	!RESET_B	0.01860	**0.02163**	0.32940	**0.02292**	2.50740	**0.04205**

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	**0.00382**	0.32940	**0.00543**	2.50740	**0.02375**
	!RESET_B	0.01860	**0.02838**	0.32940	**0.03180**	2.50740	**0.05056**

Passive power(pJ) for RESET_B rising :

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

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

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

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

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

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01012**	0.32940	**0.01174**	2.50740	**0.03519**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01880**	0.32940	**0.02083**	2.50740	**0.04365**

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	**0.01384**	0.32940	**0.01539**	2.50740	**0.04051**
	(!D * !RESET_B * !Q)	0.01860	**0.01012**	0.32940	**0.01174**	2.50740	**0.03519**

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	**0.01487**	0.32940	**0.01677**	2.50740	**0.04108**
	(!D * RESET_B * !Q)	0.01860	**0.01880**	0.32940	**0.02083**	2.50740	**0.04365**
	(!D * !RESET_B * !Q)	0.01860	**0.01884**	0.32940	**0.02090**	2.50740	**0.04365**

DLHR

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00226	0.00336	0.00244	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	973.20200	1064.53000	1112.70000

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	**0.13753**	0.32940	0.06480	**0.32768**	2.50740	0.30000	**0.87911**
	GATE->Q (RR)	0.01860	0.00100	**0.12586**	0.32940	0.06480	**0.31954**	2.50740	0.30000	**0.84384**

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	**0.11732**	0.32940	0.06480	**0.27852**	2.50740	0.30000	**0.71356**
	GATE->Q (RF)	0.01860	0.00100	**0.12188**	0.32940	0.06480	**0.29165**	2.50740	0.30000	**0.73457**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04945**	0.32940	0.06480	**0.23798**	2.50740	0.30000	**0.74618**

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	**0.14250**	0.32940	0.06480	**0.31273**	2.50740	0.30000	**0.81457**
	GATE->Q_N (RR)	0.01860	0.00100	**0.14720**	0.32940	0.06480	**0.32576**	2.50740	0.30000	**0.83586**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07454**	0.32940	0.06480	**0.26617**	2.50740	0.30000	**0.79451**

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	**0.16740**	0.32940	0.06480	**0.32625**	2.50740	0.30000	**0.81022**
	GATE->Q_N (RF)	0.01860	0.00100	**0.15554**	0.32940	0.06480	**0.31816**	2.50740	0.30000	**0.77475**

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	**-0.06358**	1.26300	1.26300	**-0.14841**	2.50740	2.50740	**-0.18004**
	setup	GATE (F)	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.21841**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**0.00810**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.03668**	1.26300	1.26300	**-0.00270**	2.50740	2.50740	**-0.03542**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**-0.00245**	1.26300	1.26300	**-0.03508**	2.50740	2.50740	**-0.04427**
	removal	GATE (F)	0.01860	0.01860	**0.01223**	1.26300	1.26300	**0.04587**	2.50740	2.50740	**0.05313**

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	**0.00572**	0.32940	0.06480	**0.00622**	2.50740	0.30000	**0.00615**
	GATE	0.01860	0.00100	**0.01307**	0.32940	0.06480	**0.01351**	2.50740	0.30000	**0.01411**

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	**0.00192**	0.32940	0.06480	**0.00145**	2.50740	0.30000	**0.00103**
	GATE	0.01860	0.00100	**0.01305**	0.32940	0.06480	**0.01382**	2.50740	0.30000	**0.01341**
	RESET_B	0.01860	0.00100	**0.00950**	0.32940	0.06480	**0.01079**	2.50740	0.30000	**0.02224**

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	**0.00193**	0.32940	0.06480	**0.00148**	2.50740	0.30000	**0.00120**
	GATE	0.01860	0.00100	**0.01796**	0.32940	0.06480	**0.01952**	2.50740	0.30000	**0.03125**
	RESET_B	0.01860	0.00100	**0.00951**	0.32940	0.06480	**0.01077**	2.50740	0.30000	**0.02216**

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	**0.00571**	0.32940	0.06480	**0.00622**	2.50740	0.30000	**0.00601**
	GATE	0.01860	0.00100	**0.01306**	0.32940	0.06480	**0.01353**	2.50740	0.30000	**0.01403**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.02120**	0.32940	**0.02250**	2.50740	**0.04160**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.02807**	0.32940	**0.03162**	2.50740	**0.05046**

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	**0.00362**	0.32940	**0.00504**	2.50740	**0.02410**
	!RESET_B	0.01860	**0.02120**	0.32940	**0.02250**	2.50740	**0.04160**

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	**0.00387**	0.32940	**0.00551**	2.50740	**0.02389**
	!RESET_B	0.01860	**0.02807**	0.32940	**0.03162**	2.50740	**0.05046**

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	**-0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

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	**-0.00009**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**-0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00009**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00980**	0.32940	**0.01144**	2.50740	**0.03500**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01860**	0.32940	**0.02060**	2.50740	**0.04351**

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	**0.01351**	0.32940	**0.01507**	2.50740	**0.04028**
	(!D * !RESET_B * !Q)	0.01860	**0.00980**	0.32940	**0.01144**	2.50740	**0.03500**

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	**0.01522**	0.32940	**0.01714**	2.50740	**0.04144**
	(!D * RESET_B * !Q)	0.01860	**0.01860**	0.32940	**0.02060**	2.50740	**0.04351**
	(!D * !RESET_B * !Q)	0.01860	**0.01863**	0.32940	**0.02064**	2.50740	**0.04359**

DLLRQ

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00222	0.00320	0.00237	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	775.38700	857.91900	913.96500

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_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.12618**	0.32940	0.06480	**0.31029**	2.50740	0.30000	**0.86113**
	GATE_N->Q (FR)	0.01860	0.00100	**0.13958**	0.32940	0.06480	**0.33014**	2.50740	0.30000	**0.88076**
	RESET_B->Q (RR)	0.01860	0.00100	**0.06005**	0.32940	0.06480	**0.24663**	2.50740	0.30000	**0.84691**

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	**0.11250**	0.32940	0.06480	**0.27037**	2.50740	0.30000	**0.70662**
	GATE_N->Q (FF)	0.01860	0.00100	**0.10680**	0.32940	0.06480	**0.28276**	2.50740	0.30000	**0.78514**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04585**	0.32940	0.06480	**0.22340**	2.50740	0.30000	**0.72138**

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	**-0.04401**	1.26300	1.26300	**-0.06206**	2.50740	2.50740	**-0.08855**
	setup	GATE_N (R)	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.07016**	2.50740	2.50740	**0.09740**

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	**-0.05624**	1.26300	1.26300	**-0.14841**	2.50740	2.50740	**-0.18890**
	setup	GATE_N (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.23908**

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	**-0.02201**	1.26300	1.26300	**-0.05936**	2.50740	2.50740	**-0.05313**
	removal	GATE_N (R)	0.01860	0.01860	**0.03179**	1.26300	1.26300	**0.06746**	2.50740	2.50740	**0.05903**

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	**0.00860**	0.32940	0.06480	**0.00902**	2.50740	0.30000	**0.00907**
	GATE_N	0.01860	0.00100	**0.00830**	0.32940	0.06480	**0.00851**	2.50740	0.30000	**0.00802**
	RESET_B	0.01860	0.00100	**0.01246**	0.32940	0.06480	**0.01334**	2.50740	0.30000	**0.03330**

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	**0.00258**	0.32940	0.06480	**0.00060**	2.50740	0.30000	**0.00015**
	GATE_N	0.01860	0.00100	**0.00666**	0.32940	0.06480	**0.00710**	2.50740	0.30000	**0.00808**
	RESET_B	0.01860	0.00100	**0.00942**	0.32940	0.06480	**0.01158**	2.50740	0.30000	**0.03241**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01415**	0.32940	**0.01551**	2.50740	**0.03439**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01962**	0.32940	**0.02371**	2.50740	**0.04251**

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	**0.00333**	0.32940	**0.00475**	2.50740	**0.02376**
	!RESET_B	0.01860	**0.01415**	0.32940	**0.01551**	2.50740	**0.03439**

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	**0.00377**	0.32940	**0.00540**	2.50740	**0.02375**
	!RESET_B	0.01860	**0.01962**	0.32940	**0.02371**	2.50740	**0.04251**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

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

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00927**	0.32940	**0.01088**	2.50740	**0.03438**

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	**0.01882**	0.32940	**0.02092**	2.50740	**0.04404**

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	**0.01604**	0.32940	**0.01746**	2.50740	**0.04067**
	(!D * !RESET_B * !Q)	0.01860	**0.00927**	0.32940	**0.01088**	2.50740	**0.03438**

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	**0.01511**	0.32940	**0.01692**	2.50740	**0.03957**
	(!D * RESET_B * !Q)	0.01860	**0.01879**	0.32940	**0.02086**	2.50740	**0.04435**
	(!D * !RESET_B * !Q)	0.01860	**0.01882**	0.32940	**0.02092**	2.50740	**0.04404**

DLLR

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00233	0.00332	0.00250	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	973.77000	1084.12000	1124.14000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.13841**	0.32940	0.06480	**0.32818**	2.50740	0.30000	**0.87882**
	GATE_N->Q (FR)	0.01860	0.00100	**0.15174**	0.32940	0.06480	**0.34859**	2.50740	0.30000	**0.89986**

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	**0.11872**	0.32940	0.06480	**0.27972**	2.50740	0.30000	**0.71512**
	GATE_N->Q (FF)	0.01860	0.00100	**0.11362**	0.32940	0.06480	**0.29367**	2.50740	0.30000	**0.79811**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04932**	0.32940	0.06480	**0.24154**	2.50740	0.30000	**0.72429**

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	**0.14370**	0.32940	0.06480	**0.31365**	2.50740	0.30000	**0.81498**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.13877**	0.32940	0.06480	**0.32747**	2.50740	0.30000	**0.89766**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07481**	0.32940	0.06480	**0.26751**	2.50740	0.30000	**0.80170**

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	**0.16803**	0.32940	0.06480	**0.32682**	2.50740	0.30000	**0.81010**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.18123**	0.32940	0.06480	**0.34728**	2.50740	0.30000	**0.83119**

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	**-0.04890**	1.26300	1.26300	**-0.06476**	2.50740	2.50740	**-0.09150**
	setup	GATE_N (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.07286**	2.50740	2.50740	**0.10035**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	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	**-0.05868**	1.26300	1.26300	**-0.15111**	2.50740	2.50740	**-0.19185**
	setup	GATE_N (R)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.18079**	2.50740	2.50740	**0.24203**

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	**-0.01712**	1.26300	1.26300	**-0.02698**	2.50740	2.50740	**0.00000**
	removal	GATE_N (R)	0.01860	0.01860	**0.02690**	1.26300	1.26300	**0.03508**	2.50740	2.50740	**0.00590**

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	**0.01203**	0.32940	0.06480	**0.06866**	2.50740	0.30000	**0.27331**
	GATE_N	0.01860	0.00100	**0.02784**	0.32940	0.06480	**0.08425**	2.50740	0.30000	**0.28900**

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	**0.00571**	0.32940	0.06480	**0.05620**	2.50740	0.30000	**0.26035**
	GATE_N	0.01860	0.00100	**0.02575**	0.32940	0.06480	**0.08230**	2.50740	0.30000	**0.28796**
	RESET_B	0.01860	0.00100	**0.02953**	0.32940	0.06480	**0.08696**	2.50740	0.30000	**0.31047**

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	**0.00572**	0.32940	0.06480	**0.05629**	2.50740	0.30000	**0.26075**
	GATE_N	0.01860	0.00100	**0.03620**	0.32940	0.06480	**0.09481**	2.50740	0.30000	**0.32367**
	RESET_B	0.01860	0.00100	**0.02959**	0.32940	0.06480	**0.08696**	2.50740	0.30000	**0.31056**

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	**0.01200**	0.32940	0.06480	**0.06862**	2.50740	0.30000	**0.27309**
	GATE_N	0.01860	0.00100	**0.02783**	0.32940	0.06480	**0.08418**	2.50740	0.30000	**0.28879**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.02199**	0.32940	**0.02333**	2.50740	**0.04248**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.02694**	0.32940	**0.03458**	2.50740	**0.05341**

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	**0.00368**	0.32940	**0.00511**	2.50740	**0.02416**
	!RESET_B	0.01860	**0.02199**	0.32940	**0.02333**	2.50740	**0.04248**

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	**0.00350**	0.32940	**0.00515**	2.50740	**0.02351**
	!RESET_B	0.01860	**0.02694**	0.32940	**0.03458**	2.50740	**0.05341**

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	**-0.00005**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00005**	0.32940	**0.00000**	2.50740	**0.00000**

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	**-0.00005**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**-0.00005**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00005**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00005**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.01781**	0.32940	**0.02056**	2.50740	**0.04385**

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	**0.01043**	0.32940	**0.01241**	2.50740	**0.03519**

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	**0.01620**	0.32940	**0.01759**	2.50740	**0.04077**
	(!D * RESET_B * !Q)	0.01860	**0.01781**	0.32940	**0.02055**	2.50740	**0.04389**
	(!D * !RESET_B * !Q)	0.01860	**0.01781**	0.32940	**0.02056**	2.50740	**0.04385**

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	**0.01531**	0.32940	**0.01714**	2.50740	**0.03976**
	(!D * !RESET_B * !Q)	0.01860	**0.01043**	0.32940	**0.01241**	2.50740	**0.03519**

DLY1

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00159	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	308.70800	324.83100	340.95500

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	**0.07848**	0.32940	0.06480	**0.25585**	2.50740	0.30000	**0.73861**

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	**0.09062**	0.32940	0.06480	**0.27089**	2.50740	0.30000	**0.80385**

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	**0.01558**	0.32940	0.06480	**0.01680**	2.50740	0.30000	**0.02889**

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	**0.01482**	0.32940	0.06480	**0.01626**	2.50740	0.30000	**0.02799**

DLY2

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00160	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	402.35400	418.47800	434.60200

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	**0.11601**	0.32940	0.06480	**0.30409**	2.50740	0.30000	**0.82436**

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	**0.12919**	0.32940	0.06480	**0.32781**	2.50740	0.30000	**0.88584**

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	**0.01862**	0.32940	0.06480	**0.01958**	2.50740	0.30000	**0.03106**

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	**0.01795**	0.32940	0.06480	**0.01917**	2.50740	0.30000	**0.03047**

DLY4

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00161	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	939.25200	955.35100	971.44900

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	**0.24029**	0.32940	0.06480	**0.45571**	2.50740	0.30000	**1.04991**

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	**0.24389**	0.32940	0.06480	**0.47829**	2.50740	0.30000	**1.10466**

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	**0.02706**	0.32940	0.06480	**0.02752**	2.50740	0.30000	**0.03815**

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	**0.02664**	0.32940	0.06480	**0.02704**	2.50740	0.30000	**0.03756**

EINVINx

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00807	0.00989	1.20000
sg13g2_einvn_2	0.00410	0.00527	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	1155.03000	1312.66000	1470.28000
sg13g2_einvn_2	581.53900	660.35200	739.16400

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	0.01072	**0.01829**	0.32940	0.26892	**0.39038**	2.50740	1.20972	**2.08479**
	TE_B->Z (RR)	0.01860	0.01072	**0.03935**	0.32940	0.26892	**0.10389**	2.50740	1.20972	**0.22369**
	TE_B->Z (FR)	0.01860	0.01072	**0.02309**	0.32940	0.26892	**0.36031**	2.50740	1.20972	**1.83173**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00593	**0.01966**	0.32940	0.13453	**0.38997**	2.50740	0.60494	**2.08155**
	TE_B->Z (RR)	0.01860	0.00593	**0.03805**	0.32940	0.13453	**0.09921**	2.50740	0.60494	**0.21174**
	TE_B->Z (FR)	0.01860	0.00593	**0.02394**	0.32940	0.13453	**0.36024**	2.50740	0.60494	**1.83267**

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	0.01572	**0.01700**	0.32940	0.27392	**0.35172**	2.50740	1.21472	**1.90355**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00850	**0.01823**	0.32940	0.13710	**0.35169**	2.50740	0.60750	**1.90329**

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	0.01072	**0.01254**	0.32940	0.26892	**0.01592**	2.50740	1.20972	**0.03929**
	TE_B	0.01860	0.01072	**0.02070**	0.32940	0.26892	**0.01990**	2.50740	1.20972	**0.01797**
sg13g2_einvn_2	A	0.01860	0.00593	**0.00634**	0.32940	0.13453	**0.00772**	2.50740	0.60494	**0.01943**
	TE_B	0.01860	0.00593	**0.01021**	0.32940	0.13453	**0.00976**	2.50740	0.60494	**0.00890**

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	0.01572	**0.01143**	0.32940	0.27392	**0.01498**	2.50740	1.21472	**0.03613**
sg13g2_einvn_2	A	0.01860	0.00850	**0.00588**	0.32940	0.13710	**0.00755**	2.50740	0.60750	**0.01802**

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	**-0.01236**	0.32940	**-0.01166**	2.50740	**0.01329**
sg13g2_einvn_2	0.01860	**-0.00588**	0.32940	**-0.00542**	2.50740	**0.00845**

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	**0.01693**	0.32940	**0.01940**	2.50740	**0.04457**
sg13g2_einvn_2	0.01860	**0.00855**	0.32940	**0.00992**	2.50740	**0.02381**

FILLx

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00250	0.00534	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	804.30800	828.58300	867.50900

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	**0.05277**	0.32940	0.06480	**0.23395**	2.50740	0.30000	**0.81833**

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	**0.04283**	0.32940	0.06480	**0.21498**	2.50740	0.30000	**0.70569**

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	**-0.02532**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.21907**
	setup	CLK (R)	0.01860	0.01860	**0.05261**	1.26300	1.26300	**0.18079**	2.50740	2.50740	**0.26925**

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	**-0.00873**	1.26300	1.26300	**0.01349**	2.50740	2.50740	**0.02858**
	setup	CLK (R)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.01889**	2.50740	2.50740	**0.01071**

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	**0.01185**	0.32940	0.06480	**0.01267**	2.50740	0.30000	**0.03000**

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	**0.00703**	0.32940	0.06480	**0.00918**	2.50740	0.30000	**0.02679**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.02405**	0.32940	**0.02545**	2.50740	**0.04409**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.02009**	0.32940	**0.03645**	2.50740	**0.05489**

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	**0.02405**	0.32940	**0.02545**	2.50740	**0.04409**

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	**0.02009**	0.32940	**0.03645**	2.50740	**0.05489**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00783**	0.32940	**0.00949**	2.50740	**0.03254**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.01008**	0.32940	**0.01191**	2.50740	**0.03470**

INx

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.04921	4.80000
sg13g2_inv_8	0.02405	2.40000
sg13g2_inv_4	0.01203	1.20000
sg13g2_inv_2	0.00603	0.60000
sg13g2_inv_1	0.00308	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	1264.60000	1895.09000	2525.59000
sg13g2_inv_8	632.29200	947.57600	1262.86000
sg13g2_inv_4	316.15300	473.77600	631.40000
sg13g2_inv_2	158.07700	236.87900	315.68100
sg13g2_inv_1	79.03780	118.44400	157.85000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.01197**	0.32940	1.03680	**0.27081**	2.50740	4.80000	**1.50511**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01184**	0.32940	0.51840	**0.27024**	2.50740	2.40000	**1.50326**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01211**	0.32940	0.25920	**0.26998**	2.50740	1.20000	**1.50274**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01300**	0.32940	0.12960	**0.26941**	2.50740	0.60000	**1.49948**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.01506**	0.32940	0.06480	**0.26985**	2.50740	0.30000	**1.49947**

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	**0.01206**	0.32940	1.03680	**0.26127**	2.50740	4.80000	**1.46562**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01198**	0.32940	0.51840	**0.26135**	2.50740	2.40000	**1.46699**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01219**	0.32940	0.25920	**0.26111**	2.50740	1.20000	**1.46612**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01301**	0.32940	0.12960	**0.25965**	2.50740	0.60000	**1.45874**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01488**	0.32940	0.06480	**0.26006**	2.50740	0.30000	**1.45837**

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	**0.02672**	0.32940	1.03680	**0.04233**	2.50740	4.80000	**0.17625**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01276**	0.32940	0.51840	**0.02021**	2.50740	2.40000	**0.08298**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00641**	0.32940	0.25920	**0.01023**	2.50740	1.20000	**0.04184**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00320**	0.32940	0.12960	**0.00508**	2.50740	0.60000	**0.02097**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00181**	0.32940	0.06480	**0.00263**	2.50740	0.30000	**0.01060**

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	**0.02191**	0.32940	1.03680	**0.03760**	2.50740	4.80000	**0.15172**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01046**	0.32940	0.51840	**0.01843**	2.50740	2.40000	**0.07432**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00527**	0.32940	0.25920	**0.00922**	2.50740	1.20000	**0.03736**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00273**	0.32940	0.12960	**0.00464**	2.50740	0.60000	**0.01872**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00178**	0.32940	0.06480	**0.00265**	2.50740	0.30000	**0.00957**

ITL

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_8	39.91680

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_8	0.01588	0.01676	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	2231.02000	2546.27000	2861.52000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (FR)	0.01860	0.02036	**0.01769**	0.32940	0.53776	**0.39213**	2.50740	2.41936	**2.09213**
	TE_B->Z (RR)	0.01860	0.02036	**0.05007**	0.32940	0.53776	**0.13617**	2.50740	2.41936	**0.31402**
	TE_B->Z (FR)	0.01860	0.02036	**0.02428**	0.32940	0.53776	**0.36285**	2.50740	2.41936	**1.83706**

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	0.03022	**0.01664**	0.32940	0.54762	**0.35349**	2.50740	2.42922	**1.91252**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.02036	**0.02486**	0.32940	0.53776	**0.03249**	2.50740	2.41936	**0.08509**
	TE_B	0.01860	0.02036	**0.04339**	0.32940	0.53776	**0.04076**	2.50740	2.41936	**0.03852**

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	0.03022	**0.02228**	0.32940	0.54762	**0.02939**	2.50740	2.42922	**0.07057**

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	**-0.02729**	0.32940	**-0.02766**	2.50740	**-0.00480**

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	**0.02962**	0.32940	**0.03251**	2.50740	**0.05668**

KEEPSTATE

sg13g2_stdcell_fast_1p32V_m40C Cell Library:
Process sg13g2_stdcell_fast_1p32V_m40C,
Voltage 1.32, Temp -40.00

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	46.59170	363.86300	681.13400

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**

MUX2x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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_2	19.95840
sg13g2_mux2_1	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_2	0.00214	0.00225	0.00552	0.60000
sg13g2_mux2_1	0.00215	0.00225	0.00552	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_2	583.71400	677.51200	746.56200
sg13g2_mux2_1	481.21800	559.06900	661.66000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_2	A0->X (RR)	0.01860	0.00100	**0.05993**	0.32940	0.12960	**0.27645**	2.50740	0.60000	**0.90065**
	A1->X (RR)	0.01860	0.00100	**0.05325**	0.32940	0.12960	**0.27925**	2.50740	0.60000	**0.90703**
	S->X (-R)	0.01860	0.00100	**0.06565**	0.32940	0.12960	**0.27151**	2.50740	0.60000	**0.88835**
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.05192**	0.32940	0.06480	**0.24829**	2.50740	0.30000	**0.83952**
	A1->X (RR)	0.01860	0.00100	**0.05031**	0.32940	0.06480	**0.25122**	2.50740	0.30000	**0.84827**
	S->X (-R)	0.01860	0.00100	**0.05717**	0.32940	0.06480	**0.24644**	2.50740	0.30000	**0.83300**

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_2	A0->X (FF)	0.01860	0.00100	**0.07233**	0.32940	0.12960	**0.29084**	2.50740	0.60000	**0.87310**
	A1->X (FF)	0.01860	0.00100	**0.07794**	0.32940	0.12960	**0.29433**	2.50740	0.60000	**0.88094**
	S->X (-F)	0.01860	0.00100	**0.08583**	0.32940	0.12960	**0.27931**	2.50740	0.60000	**0.83451**
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.06227**	0.32940	0.06480	**0.25454**	2.50740	0.30000	**0.80535**
	A1->X (FF)	0.01860	0.00100	**0.06444**	0.32940	0.06480	**0.25834**	2.50740	0.30000	**0.81367**
	S->X (-F)	0.01860	0.00100	**0.07196**	0.32940	0.06480	**0.24705**	2.50740	0.30000	**0.77350**

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_2	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.06565**	0.32940	0.12960	**0.27151**	2.50740	0.60000	**0.88835**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.08940**	0.32940	0.12960	**0.27459**	2.50740	0.60000	**0.78336**
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.05717**	0.32940	0.06480	**0.24644**	2.50740	0.30000	**0.83300**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.08081**	0.32940	0.06480	**0.25870**	2.50740	0.30000	**0.76375**

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_2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.08583**	0.32940	0.12960	**0.27931**	2.50740	0.60000	**0.83451**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.10776**	0.32940	0.12960	**0.29001**	2.50740	0.60000	**0.78457**
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.07196**	0.32940	0.06480	**0.24705**	2.50740	0.30000	**0.77350**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.09385**	0.32940	0.06480	**0.26606**	2.50740	0.30000	**0.75859**

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_2	A0	0.01860	0.00100	**0.01758**	0.32940	0.12960	**0.01899**	2.50740	0.60000	**0.03805**
	A1	0.01860	0.00100	**0.02150**	0.32940	0.12960	**0.02539**	2.50740	0.60000	**0.04414**
	S	0.01860	0.00100	**0.01763**	0.32940	0.12960	**0.01907**	2.50740	0.60000	**0.03606**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01238**	0.32940	0.06480	**0.01391**	2.50740	0.30000	**0.03341**
	A1	0.01860	0.00100	**0.01533**	0.32940	0.06480	**0.01755**	2.50740	0.30000	**0.03689**
	S	0.01860	0.00100	**0.01261**	0.32940	0.06480	**0.01377**	2.50740	0.30000	**0.03135**

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_2	A0	0.01860	0.00100	**0.02307**	0.32940	0.12960	**0.02595**	2.50740	0.60000	**0.04436**
	A1	0.01860	0.00100	**0.01764**	0.32940	0.12960	**0.01906**	2.50740	0.60000	**0.03833**
	S	0.01860	0.00100	**0.01701**	0.32940	0.12960	**0.01821**	2.50740	0.60000	**0.03588**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01570**	0.32940	0.06480	**0.01793**	2.50740	0.30000	**0.03709**
	A1	0.01860	0.00100	**0.01226**	0.32940	0.06480	**0.01406**	2.50740	0.30000	**0.03347**
	S	0.01860	0.00100	**0.01188**	0.32940	0.06480	**0.01311**	2.50740	0.30000	**0.03084**

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_2	S	(A0 * !A1)	0.01860	0.00100	**0.01709**	0.32940	0.12960	**0.01763**	2.50740	0.60000	**0.01759**
	S	(!A0 * A1)	0.01860	0.00100	**0.01763**	0.32940	0.12960	**0.01907**	2.50740	0.60000	**0.03606**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01214**	0.32940	0.06480	**0.01232**	2.50740	0.30000	**0.01234**
	S	(!A0 * A1)	0.01860	0.00100	**0.01261**	0.32940	0.06480	**0.01377**	2.50740	0.30000	**0.03135**

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_2	S	(A0 * !A1)	0.01860	0.00100	**0.01772**	0.32940	0.12960	**0.01822**	2.50740	0.60000	**0.01805**
	S	(!A0 * A1)	0.01860	0.00100	**0.01701**	0.32940	0.12960	**0.01821**	2.50740	0.60000	**0.03588**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01258**	0.32940	0.06480	**0.01313**	2.50740	0.30000	**0.01297**
	S	(!A0 * A1)	0.01860	0.00100	**0.01188**	0.32940	0.06480	**0.01311**	2.50740	0.30000	**0.03084**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00421**	0.32940	**0.00544**	2.50740	**0.02429**
sg13g2_mux2_1	0.01860	**0.00421**	0.32940	**0.00544**	2.50740	**0.02429**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00480**	0.32940	**0.00632**	2.50740	**0.02450**
sg13g2_mux2_1	0.01860	**0.00480**	0.32940	**0.00632**	2.50740	**0.02450**

MUX4

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00305	0.00303	0.00305	0.00313	0.00882	0.00538	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	762.61000	984.26700	1144.80000

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	**0.09432**	0.32940	0.06480	**0.30734**	2.50740	0.30000	**0.96735**
	A1->X (RR)	0.01860	0.00100	**0.09166**	0.32940	0.06480	**0.30631**	2.50740	0.30000	**0.96370**
	A2->X (RR)	0.01860	0.00100	**0.09735**	0.32940	0.06480	**0.31407**	2.50740	0.30000	**0.98162**
	A3->X (RR)	0.01860	0.00100	**0.09529**	0.32940	0.06480	**0.31298**	2.50740	0.30000	**0.97976**
	S0->X (-R)	0.01860	0.00100	**0.08311**	0.32940	0.06480	**0.30697**	2.50740	0.30000	**0.97265**
	S1->X (-R)	0.01860	0.00100	**0.05007**	0.32940	0.06480	**0.24692**	2.50740	0.30000	**0.84541**

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	**0.10338**	0.32940	0.06480	**0.29933**	2.50740	0.30000	**0.83686**
	A1->X (FF)	0.01860	0.00100	**0.10517**	0.32940	0.06480	**0.29958**	2.50740	0.30000	**0.83793**
	A2->X (FF)	0.01860	0.00100	**0.11012**	0.32940	0.06480	**0.30864**	2.50740	0.30000	**0.85530**
	A3->X (FF)	0.01860	0.00100	**0.11079**	0.32940	0.06480	**0.30817**	2.50740	0.30000	**0.85411**
	S0->X (-F)	0.01860	0.00100	**0.12803**	0.32940	0.06480	**0.32683**	2.50740	0.30000	**0.86878**
	S1->X (-F)	0.01860	0.00100	**0.07157**	0.32940	0.06480	**0.25612**	2.50740	0.30000	**0.75657**

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	**0.08311**	0.32940	0.06480	**0.30697**	2.50740	0.30000	**0.97265**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.07880**	0.32940	0.06480	**0.29684**	2.50740	0.30000	**0.95127**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.11903**	0.32940	0.06480	**0.32149**	2.50740	0.30000	**0.86751**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.11589**	0.32940	0.06480	**0.31613**	2.50740	0.30000	**0.85972**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.05017**	0.32940	0.06480	**0.24690**	2.50740	0.30000	**0.84530**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.05007**	0.32940	0.06480	**0.24692**	2.50740	0.30000	**0.84541**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.06551**	0.32940	0.06480	**0.25088**	2.50740	0.30000	**0.75466**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.06536**	0.32940	0.06480	**0.25084**	2.50740	0.30000	**0.75562**

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	**0.09550**	0.32940	0.06480	**0.30428**	2.50740	0.30000	**0.86683**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.08761**	0.32940	0.06480	**0.29137**	2.50740	0.30000	**0.84151**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.12803**	0.32940	0.06480	**0.32683**	2.50740	0.30000	**0.86878**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.12164**	0.32940	0.06480	**0.31864**	2.50740	0.30000	**0.85723**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.05774**	0.32940	0.06480	**0.23952**	2.50740	0.30000	**0.75408**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.05771**	0.32940	0.06480	**0.23938**	2.50740	0.30000	**0.75360**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.07157**	0.32940	0.06480	**0.25612**	2.50740	0.30000	**0.75657**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.07176**	0.32940	0.06480	**0.25604**	2.50740	0.30000	**0.75646**

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	**0.02371**	0.32940	0.06480	**0.02409**	2.50740	0.30000	**0.03953**
	A1	0.01860	0.00100	**0.01526**	0.32940	0.06480	**0.01574**	2.50740	0.30000	**0.03110**
	A2	0.01860	0.00100	**0.02370**	0.32940	0.06480	**0.02407**	2.50740	0.30000	**0.03952**
	A3	0.01860	0.00100	**0.02235**	0.32940	0.06480	**0.02271**	2.50740	0.30000	**0.03797**
	S0	0.01860	0.00100	**0.01810**	0.32940	0.06480	**0.01535**	2.50740	0.30000	**-0.00223**
	S1	0.01860	0.00100	**0.01076**	0.32940	0.06480	**0.01271**	2.50740	0.30000	**0.02400**

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	**0.02338**	0.32940	0.06480	**0.02398**	2.50740	0.30000	**0.03965**
	A1	0.01860	0.00100	**0.01593**	0.32940	0.06480	**0.01661**	2.50740	0.30000	**0.03226**
	A2	0.01860	0.00100	**0.01773**	0.32940	0.06480	**0.01828**	2.50740	0.30000	**0.03383**
	A3	0.01860	0.00100	**0.01763**	0.32940	0.06480	**0.01819**	2.50740	0.30000	**0.03382**
	S0	0.01860	0.00100	**0.01264**	0.32940	0.06480	**0.01436**	2.50740	0.30000	**0.03152**
	S1	0.01860	0.00100	**0.01098**	0.32940	0.06480	**0.01301**	2.50740	0.30000	**0.02487**

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	**0.01810**	0.32940	0.06480	**0.01535**	2.50740	0.30000	**-0.00223**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01805**	0.32940	0.06480	**0.01537**	2.50740	0.30000	**-0.00246**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01172**	0.32940	0.06480	**0.01273**	2.50740	0.30000	**0.03011**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01177**	0.32940	0.06480	**0.01265**	2.50740	0.30000	**0.02993**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01083**	0.32940	0.06480	**0.01271**	2.50740	0.30000	**0.02507**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01076**	0.32940	0.06480	**0.01271**	2.50740	0.30000	**0.02400**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00672**	0.32940	0.06480	**0.00815**	2.50740	0.30000	**0.02355**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00671**	0.32940	0.06480	**0.00817**	2.50740	0.30000	**0.02355**

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	**0.02622**	0.32940	0.06480	**0.02584**	2.50740	0.30000	**0.00806**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02625**	0.32940	0.06480	**0.02625**	2.50740	0.30000	**0.00819**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01245**	0.32940	0.06480	**0.01391**	2.50740	0.30000	**0.03137**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01264**	0.32940	0.06480	**0.01436**	2.50740	0.30000	**0.03152**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01097**	0.32940	0.06480	**0.01301**	2.50740	0.30000	**0.02536**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01098**	0.32940	0.06480	**0.01301**	2.50740	0.30000	**0.02487**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00608**	0.32940	0.06480	**0.00768**	2.50740	0.30000	**0.02283**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00611**	0.32940	0.06480	**0.00770**	2.50740	0.30000	**0.02280**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00892**	0.32940	**0.01231**	2.50740	**0.05393**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01204**	0.32940	**0.01604**	2.50740	**0.05645**

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	**0.00821**	0.32940	**0.01154**	2.50740	**0.05318**
	(A0 * A1 * !S1)	0.01860	**0.00887**	0.32940	**0.01191**	2.50740	**0.05342**
	(!A2 * !A3 * S1)	0.01860	**0.00892**	0.32940	**0.01231**	2.50740	**0.05393**
	(!A0 * !A1 * !S1)	0.01860	**0.00992**	0.32940	**0.01302**	2.50740	**0.05439**

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	**0.01248**	0.32940	**0.01656**	2.50740	**0.05723**
	(A0 * A1 * !S1)	0.01860	**0.01437**	0.32940	**0.01862**	2.50740	**0.05905**
	(!A2 * !A3 * S1)	0.01860	**0.01204**	0.32940	**0.01604**	2.50740	**0.05645**
	(!A0 * !A1 * !S1)	0.01860	**0.00854**	0.32940	**0.01216**	2.50740	**0.05227**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00507**	0.32940	**0.00715**	2.50740	**0.02999**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00497**	0.32940	**0.00728**	2.50740	**0.02986**

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	**0.00456**	0.32940	**0.00660**	2.50740	**0.02944**
	(A0 * A2 * !S0)	0.01860	**0.00455**	0.32940	**0.00659**	2.50740	**0.02968**
	(!A1 * !A3 * S0)	0.01860	**0.00505**	0.32940	**0.00717**	2.50740	**0.03025**
	(!A0 * !A2 * !S0)	0.01860	**0.00507**	0.32940	**0.00715**	2.50740	**0.02999**

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	**0.00520**	0.32940	**0.00759**	2.50740	**0.02977**
	(A0 * A2 * !S0)	0.01860	**0.00520**	0.32940	**0.00751**	2.50740	**0.02989**
	(!A1 * !A3 * S0)	0.01860	**0.00497**	0.32940	**0.00728**	2.50740	**0.02986**
	(!A0 * !A2 * !S0)	0.01860	**0.00497**	0.32940	**0.00728**	2.50740	**0.02951**

NAND2B1

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00249	0.00335	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	138.12100	269.63300	373.98300

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	**0.03726**	0.32940	0.06480	**0.21931**	2.50740	0.30000	**0.80381**
	B->Y (FR)	0.01860	0.00100	**0.01889**	0.32940	0.06480	**0.27490**	2.50740	0.30000	**1.50524**

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	**0.04411**	0.32940	0.06480	**0.28348**	2.50740	0.30000	**1.04587**
	B->Y (RF)	0.01860	0.00100	**0.02723**	0.32940	0.06480	**0.32608**	2.50740	0.30000	**1.71218**

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	**0.00240**	0.32940	0.06480	**0.00251**	2.50740	0.30000	**0.00157**
	B	0.01860	0.00100	**0.00202**	0.32940	0.06480	**0.00259**	2.50740	0.30000	**0.00986**

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	**0.00537**	0.32940	0.06480	**0.00550**	2.50740	0.30000	**0.00500**
	B	0.01860	0.00100	**0.00519**	0.32940	0.06480	**0.00550**	2.50740	0.30000	**0.01143**

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	**0.00482**	0.32940	**0.00641**	2.50740	**0.02557**

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	**0.00245**	0.32940	**0.00412**	2.50740	**0.02245**

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	**0.00482**	0.32940	**0.00641**	2.50740	**0.02557**

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	**0.00245**	0.32940	**0.00412**	2.50740	**0.02245**

NAND2B2

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_2	0.00237	0.00569	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_2	270.99900	447.53100	672.25200

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_2	A_N->Y (RR)	0.01860	0.00100	**0.04867**	0.32940	0.12960	**0.25035**	2.50740	0.60000	**0.86956**
	B->Y (FR)	0.01860	0.00100	**0.01493**	0.32940	0.12960	**0.27105**	2.50740	0.60000	**1.49964**

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_2	A_N->Y (FF)	0.01860	0.00100	**0.05917**	0.32940	0.12960	**0.33213**	2.50740	0.60000	**1.16723**
	B->Y (RF)	0.01860	0.00100	**0.02063**	0.32940	0.12960	**0.35976**	2.50740	0.60000	**1.94239**

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_2	A_N	0.01860	0.00100	**0.00496**	0.32940	0.12960	**0.00538**	2.50740	0.60000	**0.00423**
	B	0.01860	0.00100	**0.00659**	0.32940	0.12960	**0.00798**	2.50740	0.60000	**0.02180**

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_2	A_N	0.01860	0.00100	**0.01061**	0.32940	0.12960	**0.01120**	2.50740	0.60000	**0.01167**
	B	0.01860	0.00100	**0.00785**	0.32940	0.12960	**0.00923**	2.50740	0.60000	**0.02137**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_2	0.01860	**0.00782**	0.32940	**0.00875**	2.50740	**0.02669**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_2	0.01860	**0.00764**	0.32940	**0.00883**	2.50740	**0.02628**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_2	!B	0.01860	**0.00782**	0.32940	**0.00875**	2.50740	**0.02669**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_2	!B	0.01860	**0.00764**	0.32940	**0.00883**	2.50740	**0.02628**

NAND2x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2_2	10.88640
sg13g2_nand2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_2	0.00596	0.00615	0.60000
sg13g2_nand2_1	0.00313	0.00324	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_2	159.30500	362.54600	613.97400
sg13g2_nand2_1	79.77980	184.60600	315.63300

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_2	A->Y (FR)	0.01860	0.00100	**0.01504**	0.32940	0.12960	**0.27146**	2.50740	0.60000	**1.50012**
	B->Y (FR)	0.01860	0.00100	**0.01822**	0.32940	0.12960	**0.27528**	2.50740	0.60000	**1.50575**
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.01665**	0.32940	0.06480	**0.27133**	2.50740	0.30000	**1.49824**
	B->Y (FR)	0.01860	0.00100	**0.01940**	0.32940	0.06480	**0.27465**	2.50740	0.30000	**1.50355**

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_2	A->Y (RF)	0.01860	0.00100	**0.02076**	0.32940	0.12960	**0.35938**	2.50740	0.60000	**1.94154**
	B->Y (RF)	0.01860	0.00100	**0.02459**	0.32940	0.12960	**0.33466**	2.50740	0.60000	**1.75903**
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.02250**	0.32940	0.06480	**0.34979**	2.50740	0.30000	**1.89137**
	B->Y (RF)	0.01860	0.00100	**0.02533**	0.32940	0.06480	**0.32448**	2.50740	0.30000	**1.71024**

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_2	A	0.01860	0.00100	**0.00358**	0.32940	0.12960	**0.00524**	2.50740	0.60000	**0.01856**
	B	0.01860	0.00100	**0.00448**	0.32940	0.12960	**0.00557**	2.50740	0.60000	**0.01961**
sg13g2_nand2_1	A	0.01860	0.00100	**0.00194**	0.32940	0.06480	**0.00270**	2.50740	0.30000	**0.00964**
	B	0.01860	0.00100	**0.00204**	0.32940	0.06480	**0.00266**	2.50740	0.30000	**0.00987**

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_2	A	0.01860	0.00100	**0.00506**	0.32940	0.12960	**0.00635**	2.50740	0.60000	**0.01797**
	B	0.01860	0.00100	**0.00943**	0.32940	0.12960	**0.01012**	2.50740	0.60000	**0.02098**
sg13g2_nand2_1	A	0.01860	0.00100	**0.00274**	0.32940	0.06480	**0.00335**	2.50740	0.30000	**0.00960**
	B	0.01860	0.00100	**0.00498**	0.32940	0.06480	**0.00525**	2.50740	0.30000	**0.01102**

NAND3B1

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00242	0.00324	0.00324	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	140.70200	315.53800	531.77800

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	**0.03920**	0.32940	0.06480	**0.21986**	2.50740	0.30000	**0.80379**
	B->Y (FR)	0.01860	0.00100	**0.02126**	0.32940	0.06480	**0.27716**	2.50740	0.30000	**1.50497**
	C->Y (FR)	0.01860	0.00100	**0.02293**	0.32940	0.06480	**0.28022**	2.50740	0.30000	**1.50942**

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	**0.05348**	0.32940	0.06480	**0.37535**	2.50740	0.30000	**1.44124**
	B->Y (RF)	0.01860	0.00100	**0.04095**	0.32940	0.06480	**0.42394**	2.50740	0.30000	**2.15140**
	C->Y (RF)	0.01860	0.00100	**0.04454**	0.32940	0.06480	**0.40340**	2.50740	0.30000	**1.95837**

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	**0.00272**	0.32940	0.06480	**0.00276**	2.50740	0.30000	**0.00205**
	B	0.01860	0.00100	**0.00253**	0.32940	0.06480	**0.00302**	2.50740	0.30000	**0.00935**
	C	0.01860	0.00100	**0.00285**	0.32940	0.06480	**0.00321**	2.50740	0.30000	**0.00974**

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	**0.00679**	0.32940	0.06480	**0.00692**	2.50740	0.30000	**0.00638**
	B	0.01860	0.00100	**0.00663**	0.32940	0.06480	**0.00676**	2.50740	0.30000	**0.01134**
	C	0.01860	0.00100	**0.00884**	0.32940	0.06480	**0.00887**	2.50740	0.30000	**0.01347**

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	**0.00476**	0.32940	**0.00636**	2.50740	**0.02551**

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	**0.00253**	0.32940	**0.00418**	2.50740	**0.02253**

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	**0.00476**	0.32940	**0.00636**	2.50740	**0.02551**

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	**0.00253**	0.32940	**0.00418**	2.50740	**0.02253**

NAND3

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nand3_1	0.00310	0.00324	0.00320	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	82.46900	230.61900	473.54900

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_nand3_1	A->Y (FR)	0.01860	0.00100	**0.01903**	0.32940	0.06480	**0.27377**	2.50740	0.30000	**1.49980**
	B->Y (FR)	0.01860	0.00100	**0.02181**	0.32940	0.06480	**0.27720**	2.50740	0.30000	**1.50500**
	C->Y (FR)	0.01860	0.00100	**0.02320**	0.32940	0.06480	**0.28030**	2.50740	0.30000	**1.50930**

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_nand3_1	A->Y (RF)	0.01860	0.00100	**0.03245**	0.32940	0.06480	**0.43793**	2.50740	0.30000	**2.29134**
	B->Y (RF)	0.01860	0.00100	**0.03881**	0.32940	0.06480	**0.42237**	2.50740	0.30000	**2.14996**
	C->Y (RF)	0.01860	0.00100	**0.04142**	0.32940	0.06480	**0.40004**	2.50740	0.30000	**1.95649**

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_nand3_1	A	0.01860	0.00100	**0.00234**	0.32940	0.06480	**0.00298**	2.50740	0.30000	**0.00915**
	B	0.01860	0.00100	**0.00253**	0.32940	0.06480	**0.00299**	2.50740	0.30000	**0.00929**
	C	0.01860	0.00100	**0.00287**	0.32940	0.06480	**0.00323**	2.50740	0.30000	**0.00983**

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_nand3_1	A	0.01860	0.00100	**0.00421**	0.32940	0.06480	**0.00464**	2.50740	0.30000	**0.00987**
	B	0.01860	0.00100	**0.00650**	0.32940	0.06480	**0.00664**	2.50740	0.30000	**0.01130**
	C	0.01860	0.00100	**0.00840**	0.32940	0.06480	**0.00847**	2.50740	0.30000	**0.01331**

NAND4

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand4_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nand4_1	0.00306	0.00320	0.00321	0.00320	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	85.11470	268.85300	631.34900

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_nand4_1	A->Y (FR)	0.01860	0.00100	**0.02001**	0.32940	0.06480	**0.27487**	2.50740	0.30000	**1.49936**
	B->Y (FR)	0.01860	0.00100	**0.02291**	0.32940	0.06480	**0.27848**	2.50740	0.30000	**1.50490**
	C->Y (FR)	0.01860	0.00100	**0.02444**	0.32940	0.06480	**0.28175**	2.50740	0.30000	**1.50974**
	D->Y (FR)	0.01860	0.00100	**0.02491**	0.32940	0.06480	**0.28430**	2.50740	0.30000	**1.51321**

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_nand4_1	A->Y (RF)	0.01860	0.00100	**0.04079**	0.32940	0.06480	**0.52238**	2.50740	0.30000	**2.66937**
	B->Y (RF)	0.01860	0.00100	**0.05091**	0.32940	0.06480	**0.51447**	2.50740	0.30000	**2.55372**
	C->Y (RF)	0.01860	0.00100	**0.05658**	0.32940	0.06480	**0.49900**	2.50740	0.30000	**2.38729**
	D->Y (RF)	0.01860	0.00100	**0.05895**	0.32940	0.06480	**0.48590**	2.50740	0.30000	**2.24116**

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_nand4_1	A	0.01860	0.00100	**0.00230**	0.32940	0.06480	**0.00293**	2.50740	0.30000	**0.00851**
	B	0.01860	0.00100	**0.00259**	0.32940	0.06480	**0.00301**	2.50740	0.30000	**0.00875**
	C	0.01860	0.00100	**0.00289**	0.32940	0.06480	**0.00316**	2.50740	0.30000	**0.00906**
	D	0.01860	0.00100	**0.00310**	0.32940	0.06480	**0.00332**	2.50740	0.30000	**0.00933**

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_nand4_1	A	0.01860	0.00100	**0.00513**	0.32940	0.06480	**0.00561**	2.50740	0.30000	**0.00989**
	B	0.01860	0.00100	**0.00741**	0.32940	0.06480	**0.00759**	2.50740	0.30000	**0.01137**
	C	0.01860	0.00100	**0.00935**	0.32940	0.06480	**0.00940**	2.50740	0.30000	**0.01321**
	D	0.01860	0.00100	**0.01123**	0.32940	0.06480	**0.01131**	2.50740	0.30000	**0.01531**

NOR2Bx

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

INPUT		OUTPUT
A	B_N	Y
x	0	0
0	1	1
1	1	0

Footprint

Cell Name	Area
sg13g2_nor2b_2	12.70080
sg13g2_nor2b_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B_N	Y
sg13g2_nor2b_2	0.00605	0.00289	0.60000
sg13g2_nor2b_1	0.00312	0.00245	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_2	368.14100	489.67700	576.52400
sg13g2_nor2b_1	211.74300	283.30000	337.28300

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_nor2b_2	A->Y (FR)	0.01860	0.00100	**0.02168**	0.32940	0.12960	**0.39113**	2.50740	0.60000	**2.07982**
	B_N->Y (RR)	0.01860	0.00100	**0.05539**	0.32940	0.12960	**0.36999**	2.50740	0.60000	**1.40672**
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.02466**	0.32940	0.06480	**0.39197**	2.50740	0.30000	**2.08231**
	B_N->Y (RR)	0.01860	0.00100	**0.05024**	0.32940	0.06480	**0.34877**	2.50740	0.30000	**1.35188**

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_nor2b_2	A->Y (RF)	0.01860	0.00100	**0.01514**	0.32940	0.12960	**0.26828**	2.50740	0.60000	**1.49430**
	B_N->Y (FF)	0.01860	0.00100	**0.04896**	0.32940	0.12960	**0.22768**	2.50740	0.60000	**0.72655**
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.01641**	0.32940	0.06480	**0.26158**	2.50740	0.30000	**1.45714**
	B_N->Y (FF)	0.01860	0.00100	**0.04150**	0.32940	0.06480	**0.20171**	2.50740	0.30000	**0.66843**

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_nor2b_2	A	0.01860	0.00100	**0.00501**	0.32940	0.12960	**0.00648**	2.50740	0.60000	**0.01876**
	B_N	0.01860	0.00100	**0.01095**	0.32940	0.12960	**0.01125**	2.50740	0.60000	**0.01086**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00251**	0.32940	0.06480	**0.00319**	2.50740	0.30000	**0.00967**
	B_N	0.01860	0.00100	**0.00576**	0.32940	0.06480	**0.00579**	2.50740	0.30000	**0.00535**

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_nor2b_2	A	0.01860	0.00100	**0.00336**	0.32940	0.12960	**0.00509**	2.50740	0.60000	**0.01683**
	B_N	0.01860	0.00100	**0.00523**	0.32940	0.12960	**0.00545**	2.50740	0.60000	**0.00460**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00213**	0.32940	0.06480	**0.00294**	2.50740	0.30000	**0.00882**
	B_N	0.01860	0.00100	**0.00288**	0.32940	0.06480	**0.00290**	2.50740	0.30000	**0.00210**

Passive power(pJ) for B_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor2b_2	0.01860	**0.00889**	0.32940	**0.01023**	2.50740	**0.03201**
sg13g2_nor2b_1	0.01860	**0.00486**	0.32940	**0.00627**	2.50740	**0.02512**

Passive power(pJ) for B_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor2b_2	0.01860	**0.00763**	0.32940	**0.00916**	2.50740	**0.03015**
sg13g2_nor2b_1	0.01860	**0.00443**	0.32940	**0.00599**	2.50740	**0.02418**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor2b_2	**A**	0.01860	**0.00889**	0.32940	**0.01023**	2.50740	**0.03201**
sg13g2_nor2b_1	**A**	0.01860	**0.00486**	0.32940	**0.00627**	2.50740	**0.02512**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor2b_2	**A**	0.01860	**0.00763**	0.32940	**0.00916**	2.50740	**0.03015**
sg13g2_nor2b_1	**A**	0.01860	**0.00443**	0.32940	**0.00599**	2.50740	**0.02418**

NOR2x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2_2	10.88640
sg13g2_nor2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_2	0.00629	0.00602	0.30000
sg13g2_nor2_1	0.00326	0.00311	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_2	306.92100	396.71500	512.42500
sg13g2_nor2_1	153.49000	198.36100	256.19500

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_2	A->Y (FR)	0.01860	0.00100	**0.02740**	0.32940	0.06480	**0.23505**	2.50740	0.30000	**1.19437**
	B->Y (FR)	0.01860	0.00100	**0.02194**	0.32940	0.06480	**0.25659**	2.50740	0.30000	**1.35770**
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.02891**	0.32940	0.06480	**0.36300**	2.50740	0.30000	**1.85818**
	B->Y (FR)	0.01860	0.00100	**0.02472**	0.32940	0.06480	**0.39165**	2.50740	0.30000	**2.08110**

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_2	A->Y (RF)	0.01860	0.00100	**0.01815**	0.32940	0.06480	**0.18865**	2.50740	0.30000	**1.00626**
	B->Y (RF)	0.01860	0.00100	**0.01492**	0.32940	0.06480	**0.18319**	2.50740	0.30000	**0.99755**
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.01919**	0.32940	0.06480	**0.26515**	2.50740	0.30000	**1.46298**
	B->Y (RF)	0.01860	0.00100	**0.01645**	0.32940	0.06480	**0.26152**	2.50740	0.30000	**1.45705**

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_2	A	0.01860	0.00100	**0.01077**	0.32940	0.06480	**0.01158**	2.50740	0.30000	**0.02901**
	B	0.01860	0.00100	**0.00511**	0.32940	0.06480	**0.00718**	2.50740	0.30000	**0.02676**
sg13g2_nor2_1	A	0.01860	0.00100	**0.00533**	0.32940	0.06480	**0.00559**	2.50740	0.30000	**0.01126**
	B	0.01860	0.00100	**0.00251**	0.32940	0.06480	**0.00318**	2.50740	0.30000	**0.00940**

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_2	A	0.01860	0.00100	**0.00458**	0.32940	0.06480	**0.00594**	2.50740	0.30000	**0.02459**
	B	0.01860	0.00100	**0.00332**	0.32940	0.06480	**0.00527**	2.50740	0.30000	**0.02325**
sg13g2_nor2_1	A	0.01860	0.00100	**0.00229**	0.32940	0.06480	**0.00278**	2.50740	0.30000	**0.00895**
	B	0.01860	0.00100	**0.00213**	0.32940	0.06480	**0.00295**	2.50740	0.30000	**0.00884**

NOR3x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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_2	16.32960
sg13g2_nor3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_2	0.00626	0.00619	0.00596	0.60000
sg13g2_nor3_1	0.00329	0.00328	0.00311	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_2	311.25000	516.04700	751.46500
sg13g2_nor3_1	162.21600	267.57800	395.48600

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_2	A->Y (FR)	0.01860	0.00100	**0.04661**	0.32940	0.12960	**0.47927**	2.50740	0.60000	**2.25476**
	B->Y (FR)	0.01860	0.00100	**0.04333**	0.32940	0.12960	**0.50077**	2.50740	0.60000	**2.46980**
	C->Y (FR)	0.01860	0.00100	**0.03140**	0.32940	0.12960	**0.51266**	2.50740	0.60000	**2.63396**
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.05029**	0.32940	0.06480	**0.47741**	2.50740	0.30000	**2.24733**
	B->Y (FR)	0.01860	0.00100	**0.04710**	0.32940	0.06480	**0.49848**	2.50740	0.30000	**2.45700**
	C->Y (FR)	0.01860	0.00100	**0.03658**	0.32940	0.06480	**0.51197**	2.50740	0.30000	**2.62310**

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_2	A->Y (RF)	0.01860	0.00100	**0.02041**	0.32940	0.12960	**0.27038**	2.50740	0.60000	**1.46890**
	B->Y (RF)	0.01860	0.00100	**0.01992**	0.32940	0.12960	**0.26721**	2.50740	0.60000	**1.46335**
	C->Y (RF)	0.01860	0.00100	**0.01665**	0.32940	0.12960	**0.26292**	2.50740	0.60000	**1.45750**
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.02136**	0.32940	0.06480	**0.26407**	2.50740	0.30000	**1.43414**
	B->Y (RF)	0.01860	0.00100	**0.02086**	0.32940	0.06480	**0.26190**	2.50740	0.30000	**1.43315**
	C->Y (RF)	0.01860	0.00100	**0.01809**	0.32940	0.06480	**0.25820**	2.50740	0.30000	**1.42758**

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_2	A	0.01860	0.00100	**0.01789**	0.32940	0.12960	**0.01815**	2.50740	0.60000	**0.02729**
	B	0.01860	0.00100	**0.01298**	0.32940	0.12960	**0.01324**	2.50740	0.60000	**0.02211**
	C	0.01860	0.00100	**0.00731**	0.32940	0.12960	**0.00858**	2.50740	0.60000	**0.01904**
sg13g2_nor3_1	A	0.01860	0.00100	**0.00913**	0.32940	0.06480	**0.00931**	2.50740	0.30000	**0.01417**
	B	0.01860	0.00100	**0.00667**	0.32940	0.06480	**0.00685**	2.50740	0.30000	**0.01141**
	C	0.01860	0.00100	**0.00391**	0.32940	0.06480	**0.00453**	2.50740	0.30000	**0.00992**

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_2	A	0.01860	0.00100	**0.00573**	0.32940	0.12960	**0.00621**	2.50740	0.60000	**0.01734**
	B	0.01860	0.00100	**0.00522**	0.32940	0.12960	**0.00598**	2.50740	0.60000	**0.01689**
	C	0.01860	0.00100	**0.00379**	0.32940	0.12960	**0.00547**	2.50740	0.60000	**0.01571**
sg13g2_nor3_1	A	0.01860	0.00100	**0.00297**	0.32940	0.06480	**0.00325**	2.50740	0.30000	**0.00912**
	B	0.01860	0.00100	**0.00281**	0.32940	0.06480	**0.00321**	2.50740	0.30000	**0.00885**
	C	0.01860	0.00100	**0.00239**	0.32940	0.06480	**0.00313**	2.50740	0.30000	**0.00845**

NOR4x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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_2	21.77280
sg13g2_nor4_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_2	0.00627	0.00612	0.00529	0.00536	0.60000
sg13g2_nor4_1	0.00325	0.00321	0.00278	0.00278	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_2	316.15400	660.41200	993.97200
sg13g2_nor4_1	158.08100	330.21400	497.00500

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_2	A->Y (FR)	0.01860	0.00100	**0.07235**	0.32940	0.12960	**0.61367**	2.50740	0.60000	**2.71358**
	B->Y (FR)	0.01860	0.00100	**0.06931**	0.32940	0.12960	**0.62451**	2.50740	0.60000	**2.87198**
	C->Y (FR)	0.01860	0.00100	**0.05960**	0.32940	0.12960	**0.63371**	2.50740	0.60000	**3.04439**
	D->Y (FR)	0.01860	0.00100	**0.04083**	0.32940	0.12960	**0.63389**	2.50740	0.60000	**3.16668**
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.07543**	0.32940	0.06480	**0.60845**	2.50740	0.30000	**2.69783**
	B->Y (FR)	0.01860	0.00100	**0.07252**	0.32940	0.06480	**0.61924**	2.50740	0.30000	**2.85098**
	C->Y (FR)	0.01860	0.00100	**0.06352**	0.32940	0.06480	**0.62950**	2.50740	0.30000	**3.02426**
	D->Y (FR)	0.01860	0.00100	**0.04583**	0.32940	0.06480	**0.63037**	2.50740	0.30000	**3.14690**

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_2	A->Y (RF)	0.01860	0.00100	**0.02155**	0.32940	0.12960	**0.27483**	2.50740	0.60000	**1.47446**
	B->Y (RF)	0.01860	0.00100	**0.02202**	0.32940	0.12960	**0.27263**	2.50740	0.60000	**1.47138**
	C->Y (RF)	0.01860	0.00100	**0.02113**	0.32940	0.12960	**0.26907**	2.50740	0.60000	**1.46558**
	D->Y (RF)	0.01860	0.00100	**0.01796**	0.32940	0.12960	**0.26437**	2.50740	0.60000	**1.45802**
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.02286**	0.32940	0.06480	**0.27455**	2.50740	0.30000	**1.47397**
	B->Y (RF)	0.01860	0.00100	**0.02332**	0.32940	0.06480	**0.27298**	2.50740	0.30000	**1.47331**
	C->Y (RF)	0.01860	0.00100	**0.02236**	0.32940	0.06480	**0.26954**	2.50740	0.30000	**1.46745**
	D->Y (RF)	0.01860	0.00100	**0.01932**	0.32940	0.06480	**0.26534**	2.50740	0.30000	**1.46204**

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_2	A	0.01860	0.00100	**0.02232**	0.32940	0.12960	**0.02216**	2.50740	0.60000	**0.03068**
	B	0.01860	0.00100	**0.01983**	0.32940	0.12960	**0.01972**	2.50740	0.60000	**0.02835**
	C	0.01860	0.00100	**0.01565**	0.32940	0.12960	**0.01569**	2.50740	0.60000	**0.02437**
	D	0.01860	0.00100	**0.01107**	0.32940	0.12960	**0.01208**	2.50740	0.60000	**0.02236**
sg13g2_nor4_1	A	0.01860	0.00100	**0.01112**	0.32940	0.06480	**0.01109**	2.50740	0.30000	**0.01530**
	B	0.01860	0.00100	**0.00973**	0.32940	0.06480	**0.00966**	2.50740	0.30000	**0.01395**
	C	0.01860	0.00100	**0.00794**	0.32940	0.06480	**0.00797**	2.50740	0.30000	**0.01225**
	D	0.01860	0.00100	**0.00557**	0.32940	0.06480	**0.00606**	2.50740	0.30000	**0.01110**

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_2	A	0.01860	0.00100	**0.00768**	0.32940	0.12960	**0.00827**	2.50740	0.60000	**0.01842**
	B	0.01860	0.00100	**0.00674**	0.32940	0.12960	**0.00698**	2.50740	0.60000	**0.01669**
	C	0.01860	0.00100	**0.00421**	0.32940	0.12960	**0.00498**	2.50740	0.60000	**0.01426**
	D	0.01860	0.00100	**0.00223**	0.32940	0.12960	**0.00386**	2.50740	0.60000	**0.01304**
sg13g2_nor4_1	A	0.01860	0.00100	**0.00380**	0.32940	0.06480	**0.00408**	2.50740	0.30000	**0.00923**
	B	0.01860	0.00100	**0.00352**	0.32940	0.06480	**0.00365**	2.50740	0.30000	**0.00854**
	C	0.01860	0.00100	**0.00227**	0.32940	0.06480	**0.00262**	2.50740	0.30000	**0.00737**
	D	0.01860	0.00100	**0.00145**	0.32940	0.06480	**0.00217**	2.50740	0.30000	**0.00676**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**-0.00056**	0.32940	**-0.00096**	2.50740	**-0.00107**
sg13g2_nor4_1	0.01860	**-0.00019**	0.32940	**-0.00039**	2.50740	**-0.00044**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00233**	0.32940	**0.00226**	2.50740	**0.00228**
sg13g2_nor4_1	0.01860	**0.00105**	0.32940	**0.00101**	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_nor4_2	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00056**	0.32940	**-0.00096**	2.50740	**-0.00107**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00019**	0.32940	**-0.00039**	2.50740	**-0.00044**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(!B * C) + (!B * !C * D)**	0.01860	**0.00233**	0.32940	**0.00226**	2.50740	**0.00228**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00105**	0.32940	**0.00101**	2.50740	**0.00102**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(!A * C) + (!A * !C * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	**(!A * C) + (!A * !C * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(!A * C) + (!A * !C * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	**(!A * C) + (!A * !C * D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00129**	0.32940	**0.00131**	2.50740	**0.00131**
sg13g2_nor4_1	0.01860	**0.00078**	0.32940	**0.00079**	2.50740	**0.00079**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**-0.00070**	0.32940	**-0.00069**	2.50740	**-0.00069**
sg13g2_nor4_1	0.01860	**-0.00061**	0.32940	**-0.00060**	2.50740	**-0.00060**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(A * !D) + (!A * B * !D)**	0.01860	**0.00129**	0.32940	**0.00131**	2.50740	**0.00131**
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**0.00078**	0.32940	**0.00079**	2.50740	**0.00079**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00070**	0.32940	**-0.00069**	2.50740	**-0.00069**
sg13g2_nor4_1	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00061**	0.32940	**-0.00060**	2.50740	**-0.00060**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00177**	0.32940	**0.00177**	2.50740	**0.00177**
sg13g2_nor4_1	0.01860	**0.00101**	0.32940	**0.00101**	2.50740	**0.00101**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**-0.00177**	0.32940	**-0.00177**	2.50740	**-0.00175**
sg13g2_nor4_1	0.01860	**-0.00101**	0.32940	**-0.00101**	2.50740	**-0.00101**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(A * !C) + (!A * B * !C)**	0.01860	**0.00177**	0.32940	**0.00177**	2.50740	**0.00177**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00101**	0.32940	**0.00101**	2.50740	**0.00101**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	**(A * !C) + (!A * B * !C)**	0.01860	**-0.00177**	0.32940	**-0.00177**	2.50740	**-0.00175**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**-0.00101**	0.32940	**-0.00101**	2.50740	**-0.00101**

NP_ANT

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00088

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	5.22720	5.22720	5.22720

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	**-0.00045**	0.32940	**-0.00045**	2.50740	**-0.00045**

Passive power(pJ) for A falling :

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

O21AI

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_o21ai_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_o21ai_1	0.00358	0.00360	0.00326	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	170.72800	372.61100	572.07100

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_o21ai_1	A1->Y (FR)	0.01860	0.00100	**0.04645**	0.32940	0.06480	**0.43622**	2.50740	0.30000	**2.14928**
	A2->Y (FR)	0.01860	0.00100	**0.04062**	0.32940	0.06480	**0.46611**	2.50740	0.30000	**2.40998**
	B1->Y (FR)	0.01860	0.00100	**0.02026**	0.32940	0.06480	**0.31296**	2.50740	0.30000	**1.72443**

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_o21ai_1	A1->Y (RF)	0.01860	0.00100	**0.03386**	0.32940	0.06480	**0.32585**	2.50740	0.30000	**1.64461**
	A2->Y (RF)	0.01860	0.00100	**0.02846**	0.32940	0.06480	**0.31899**	2.50740	0.30000	**1.63460**
	B1->Y (RF)	0.01860	0.00100	**0.02943**	0.32940	0.06480	**0.35266**	2.50740	0.30000	**1.84869**

Delay(ns) to Y 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_o21ai_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02026**	0.32940	0.06480	**0.31296**	2.50740	0.30000	**1.72443**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01958**	0.32940	0.06480	**0.31133**	2.50740	0.30000	**1.72055**

Delay(ns) to Y 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_o21ai_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02943**	0.32940	0.06480	**0.35266**	2.50740	0.30000	**1.84869**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02256**	0.32940	0.06480	**0.34280**	2.50740	0.30000	**1.83082**

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_o21ai_1	A1	0.01860	0.00100	**0.00606**	0.32940	0.06480	**0.00629**	2.50740	0.30000	**0.01145**
	A2	0.01860	0.00100	**0.00299**	0.32940	0.06480	**0.00358**	2.50740	0.30000	**0.00889**
	B1	0.01860	0.00100	**0.00087**	0.32940	0.06480	**0.00166**	2.50740	0.30000	**0.00847**

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_o21ai_1	A1	0.01860	0.00100	**0.00607**	0.32940	0.06480	**0.00593**	2.50740	0.30000	**0.01103**
	A2	0.01860	0.00100	**0.00568**	0.32940	0.06480	**0.00589**	2.50740	0.30000	**0.01091**
	B1	0.01860	0.00100	**0.00283**	0.32940	0.06480	**0.00347**	2.50740	0.30000	**0.00987**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00381**	0.32940	0.06480	**0.00456**	2.50740	0.30000	**0.01137**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00087**	0.32940	0.06480	**0.00166**	2.50740	0.30000	**0.00847**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_o21ai_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00343**	0.32940	0.06480	**0.00384**	2.50740	0.30000	**0.01027**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00283**	0.32940	0.06480	**0.00347**	2.50740	0.30000	**0.00987**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**-0.00025**	0.32940	**-0.00009**	2.50740	**-0.00004**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00025**	0.32940	**0.00009**	2.50740	**0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A2 * !B1)**	0.01860	**-0.00025**	0.32940	**-0.00009**	2.50740	**-0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A2 * !B1)**	0.01860	**0.00025**	0.32940	**0.00009**	2.50740	**0.00004**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**-0.00018**	0.32940	**-0.00001**	2.50740	**0.00000**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00018**	0.32940	**0.00001**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A1 * !B1)**	0.01860	**-0.00018**	0.32940	**-0.00001**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A1 * !B1)**	0.01860	**0.00018**	0.32940	**0.00001**	2.50740	**0.00000**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**-0.00004**	0.32940	**-0.00003**	2.50740	**-0.00003**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00116**	0.32940	**0.00116**	2.50740	**0.00117**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A1 * !A2)**	0.01860	**-0.00004**	0.32940	**-0.00003**	2.50740	**-0.00003**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	**(!A1 * !A2)**	0.01860	**0.00116**	0.32940	**0.00116**	2.50740	**0.00117**

OR2x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or2_2	10.88640
sg13g2_or2_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_2	0.00266	0.00245	0.60000
sg13g2_or2_1	0.00267	0.00248	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_2	266.46400	336.88200	432.15800
sg13g2_or2_1	187.54400	238.25900	274.42500

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_2	A->X (RR)	0.01860	0.00100	**0.04765**	0.32940	0.12960	**0.25946**	2.50740	0.60000	**0.88111**
	B->X (RR)	0.01860	0.00100	**0.04500**	0.32940	0.12960	**0.24951**	2.50740	0.60000	**0.84601**
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.04053**	0.32940	0.06480	**0.23140**	2.50740	0.30000	**0.81330**
	B->X (RR)	0.01860	0.00100	**0.03757**	0.32940	0.06480	**0.21946**	2.50740	0.30000	**0.77477**

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_2	A->X (FF)	0.01860	0.00100	**0.07983**	0.32940	0.12960	**0.27029**	2.50740	0.60000	**0.80565**
	B->X (FF)	0.01860	0.00100	**0.07579**	0.32940	0.12960	**0.28190**	2.50740	0.60000	**0.84813**
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.06165**	0.32940	0.06480	**0.22925**	2.50740	0.30000	**0.73253**
	B->X (FF)	0.01860	0.00100	**0.05742**	0.32940	0.06480	**0.23516**	2.50740	0.30000	**0.75729**

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_2	A	0.01860	0.00100	**0.01246**	0.32940	0.12960	**0.01416**	2.50740	0.60000	**0.02911**
	B	0.01860	0.00100	**0.01232**	0.32940	0.12960	**0.01370**	2.50740	0.60000	**0.02875**
sg13g2_or2_1	A	0.01860	0.00100	**0.00742**	0.32940	0.06480	**0.00875**	2.50740	0.30000	**0.02465**
	B	0.01860	0.00100	**0.00723**	0.32940	0.06480	**0.00850**	2.50740	0.30000	**0.02464**

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_2	A	0.01860	0.00100	**0.01480**	0.32940	0.12960	**0.01548**	2.50740	0.60000	**0.02859**
	B	0.01860	0.00100	**0.01295**	0.32940	0.12960	**0.01405**	2.50740	0.60000	**0.02895**
sg13g2_or2_1	A	0.01860	0.00100	**0.00939**	0.32940	0.06480	**0.01035**	2.50740	0.30000	**0.02521**
	B	0.01860	0.00100	**0.00742**	0.32940	0.06480	**0.00909**	2.50740	0.30000	**0.02445**

OR3x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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_2	14.51520
sg13g2_or3_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_2	0.00280	0.00273	0.00259	0.60000
sg13g2_or3_1	0.00281	0.00274	0.00261	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_2	271.04500	373.47300	522.49800
sg13g2_or3_1	191.96300	284.53900	364.60200

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_2	A->X (RR)	0.01860	0.00100	**0.05309**	0.32940	0.12960	**0.27663**	2.50740	0.60000	**0.93065**
	B->X (RR)	0.01860	0.00100	**0.05094**	0.32940	0.12960	**0.26773**	2.50740	0.60000	**0.89632**
	C->X (RR)	0.01860	0.00100	**0.04737**	0.32940	0.12960	**0.25678**	2.50740	0.60000	**0.86274**
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.04610**	0.32940	0.06480	**0.25069**	2.50740	0.30000	**0.87378**
	B->X (RR)	0.01860	0.00100	**0.04408**	0.32940	0.06480	**0.24074**	2.50740	0.30000	**0.83200**
	C->X (RR)	0.01860	0.00100	**0.04028**	0.32940	0.06480	**0.22788**	2.50740	0.30000	**0.79197**

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_2	A->X (FF)	0.01860	0.00100	**0.10923**	0.32940	0.12960	**0.29777**	2.50740	0.60000	**0.81241**
	B->X (FF)	0.01860	0.00100	**0.10569**	0.32940	0.12960	**0.30881**	2.50740	0.60000	**0.87226**
	C->X (FF)	0.01860	0.00100	**0.09627**	0.32940	0.12960	**0.31197**	2.50740	0.60000	**0.89089**
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.08646**	0.32940	0.06480	**0.25545**	2.50740	0.30000	**0.74520**
	B->X (FF)	0.01860	0.00100	**0.08296**	0.32940	0.06480	**0.26208**	2.50740	0.30000	**0.79012**
	C->X (FF)	0.01860	0.00100	**0.07318**	0.32940	0.06480	**0.26077**	2.50740	0.30000	**0.80170**

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_2	A	0.01860	0.00100	**0.01290**	0.32940	0.12960	**0.01443**	2.50740	0.60000	**0.02990**
	B	0.01860	0.00100	**0.01263**	0.32940	0.12960	**0.01406**	2.50740	0.60000	**0.02853**
	C	0.01860	0.00100	**0.01247**	0.32940	0.12960	**0.01388**	2.50740	0.60000	**0.02879**
sg13g2_or3_1	A	0.01860	0.00100	**0.00782**	0.32940	0.06480	**0.00899**	2.50740	0.30000	**0.02546**
	B	0.01860	0.00100	**0.00757**	0.32940	0.06480	**0.00870**	2.50740	0.30000	**0.02440**
	C	0.01860	0.00100	**0.00737**	0.32940	0.06480	**0.00855**	2.50740	0.30000	**0.02469**

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_2	A	0.01860	0.00100	**0.01943**	0.32940	0.12960	**0.01905**	2.50740	0.60000	**0.03256**
	B	0.01860	0.00100	**0.01726**	0.32940	0.12960	**0.01724**	2.50740	0.60000	**0.03125**
	C	0.01860	0.00100	**0.01489**	0.32940	0.12960	**0.01549**	2.50740	0.60000	**0.03012**
sg13g2_or3_1	A	0.01860	0.00100	**0.01338**	0.32940	0.06480	**0.01390**	2.50740	0.30000	**0.02875**
	B	0.01860	0.00100	**0.01122**	0.32940	0.06480	**0.01196**	2.50740	0.30000	**0.02642**
	C	0.01860	0.00100	**0.00886**	0.32940	0.06480	**0.01036**	2.50740	0.30000	**0.02575**

OR4x

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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_2	16.32960
sg13g2_or4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_2	0.00281	0.00278	0.00229	0.00232	0.60000
sg13g2_or4_1	0.00282	0.00278	0.00230	0.00233	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_2	273.36100	406.66000	591.41100
sg13g2_or4_1	194.43100	322.79800	433.56500

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_2	A->X (RR)	0.01860	0.00100	**0.05519**	0.32940	0.12960	**0.28501**	2.50740	0.60000	**0.94601**
	B->X (RR)	0.01860	0.00100	**0.05425**	0.32940	0.12960	**0.27844**	2.50740	0.60000	**0.91599**
	C->X (RR)	0.01860	0.00100	**0.05180**	0.32940	0.12960	**0.26970**	2.50740	0.60000	**0.88286**
	D->X (RR)	0.01860	0.00100	**0.04796**	0.32940	0.12960	**0.25853**	2.50740	0.60000	**0.84736**
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.04813**	0.32940	0.06480	**0.26069**	2.50740	0.30000	**0.88700**
	B->X (RR)	0.01860	0.00100	**0.04747**	0.32940	0.06480	**0.25334**	2.50740	0.30000	**0.85421**
	C->X (RR)	0.01860	0.00100	**0.04515**	0.32940	0.06480	**0.24319**	2.50740	0.30000	**0.81713**
	D->X (RR)	0.01860	0.00100	**0.04108**	0.32940	0.06480	**0.23013**	2.50740	0.30000	**0.77960**

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_2	A->X (FF)	0.01860	0.00100	**0.14970**	0.32940	0.12960	**0.34638**	2.50740	0.60000	**0.86266**
	B->X (FF)	0.01860	0.00100	**0.14621**	0.32940	0.12960	**0.35217**	2.50740	0.60000	**0.92284**
	C->X (FF)	0.01860	0.00100	**0.13711**	0.32940	0.12960	**0.35504**	2.50740	0.60000	**0.96789**
	D->X (FF)	0.01860	0.00100	**0.12126**	0.32940	0.12960	**0.35210**	2.50740	0.60000	**0.97591**
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.11926**	0.32940	0.06480	**0.29660**	2.50740	0.30000	**0.79025**
	B->X (FF)	0.01860	0.00100	**0.11584**	0.32940	0.06480	**0.30018**	2.50740	0.30000	**0.84297**
	C->X (FF)	0.01860	0.00100	**0.10676**	0.32940	0.06480	**0.29982**	2.50740	0.30000	**0.87490**
	D->X (FF)	0.01860	0.00100	**0.09057**	0.32940	0.06480	**0.29290**	2.50740	0.30000	**0.87493**

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_2	A	0.01860	0.00100	**0.01388**	0.32940	0.12960	**0.01508**	2.50740	0.60000	**0.02963**
	B	0.01860	0.00100	**0.01344**	0.32940	0.12960	**0.01477**	2.50740	0.60000	**0.02872**
	C	0.01860	0.00100	**0.01211**	0.32940	0.12960	**0.01343**	2.50740	0.60000	**0.02699**
	D	0.01860	0.00100	**0.01165**	0.32940	0.12960	**0.01302**	2.50740	0.60000	**0.02604**
sg13g2_or4_1	A	0.01860	0.00100	**0.00878**	0.32940	0.06480	**0.00978**	2.50740	0.30000	**0.02478**
	B	0.01860	0.00100	**0.00837**	0.32940	0.06480	**0.00935**	2.50740	0.30000	**0.02383**
	C	0.01860	0.00100	**0.00706**	0.32940	0.06480	**0.00804**	2.50740	0.30000	**0.02218**
	D	0.01860	0.00100	**0.00656**	0.32940	0.06480	**0.00762**	2.50740	0.30000	**0.02237**

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_2	A	0.01860	0.00100	**0.02043**	0.32940	0.12960	**0.01878**	2.50740	0.60000	**0.03022**
	B	0.01860	0.00100	**0.02069**	0.32940	0.12960	**0.01904**	2.50740	0.60000	**0.03211**
	C	0.01860	0.00100	**0.01919**	0.32940	0.12960	**0.01761**	2.50740	0.60000	**0.03091**
	D	0.01860	0.00100	**0.01669**	0.32940	0.12960	**0.01599**	2.50740	0.60000	**0.02986**
sg13g2_or4_1	A	0.01860	0.00100	**0.01348**	0.32940	0.06480	**0.01367**	2.50740	0.30000	**0.02667**
	B	0.01860	0.00100	**0.01373**	0.32940	0.06480	**0.01393**	2.50740	0.30000	**0.02746**
	C	0.01860	0.00100	**0.01223**	0.32940	0.06480	**0.01265**	2.50740	0.30000	**0.02612**
	D	0.01860	0.00100	**0.00969**	0.32940	0.06480	**0.01089**	2.50740	0.30000	**0.02512**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00042**	0.32940	**-0.00045**	2.50740	**-0.00047**
sg13g2_or4_1	0.01860	**-0.00043**	0.32940	**-0.00045**	2.50740	**-0.00047**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00262**	0.32940	**0.00261**	2.50740	**0.00262**
sg13g2_or4_1	0.01860	**0.00262**	0.32940	**0.00261**	2.50740	**0.00262**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00042**	0.32940	**-0.00045**	2.50740	**-0.00047**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00043**	0.32940	**-0.00045**	2.50740	**-0.00047**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(!B * C) + (!B * !C * D)**	0.01860	**0.00262**	0.32940	**0.00261**	2.50740	**0.00262**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00262**	0.32940	**0.00261**	2.50740	**0.00262**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00025**	0.32940	**-0.00025**	2.50740	**-0.00026**
sg13g2_or4_1	0.01860	**-0.00025**	0.32940	**-0.00025**	2.50740	**-0.00026**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00025**	0.32940	**0.00025**	2.50740	**0.00026**
sg13g2_or4_1	0.01860	**0.00025**	0.32940	**0.00025**	2.50740	**0.00026**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(!A * C) + (!A * !C * D)**	0.01860	**-0.00025**	0.32940	**-0.00025**	2.50740	**-0.00026**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**-0.00025**	0.32940	**-0.00025**	2.50740	**-0.00026**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(!A * C) + (!A * !C * D)**	0.01860	**0.00025**	0.32940	**0.00025**	2.50740	**0.00026**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**0.00025**	0.32940	**0.00025**	2.50740	**0.00026**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00066**	0.32940	**0.00067**	2.50740	**0.00067**
sg13g2_or4_1	0.01860	**0.00066**	0.32940	**0.00067**	2.50740	**0.00067**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00038**	0.32940	**-0.00037**	2.50740	**-0.00037**
sg13g2_or4_1	0.01860	**-0.00038**	0.32940	**-0.00038**	2.50740	**-0.00037**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(A * !D) + (!A * B * !D)**	0.01860	**0.00066**	0.32940	**0.00067**	2.50740	**0.00067**
sg13g2_or4_1	**(A * !D) + (!A * B * !D)**	0.01860	**0.00066**	0.32940	**0.00067**	2.50740	**0.00067**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00038**	0.32940	**-0.00037**	2.50740	**-0.00037**
sg13g2_or4_1	**(A * !D) + (!A * B * !D)**	0.01860	**-0.00038**	0.32940	**-0.00038**	2.50740	**-0.00037**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00086**	0.32940	**0.00086**	2.50740	**0.00086**
sg13g2_or4_1	0.01860	**0.00086**	0.32940	**0.00086**	2.50740	**0.00086**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00027**	0.32940	**-0.00025**	2.50740	**-0.00024**
sg13g2_or4_1	0.01860	**-0.00027**	0.32940	**-0.00026**	2.50740	**-0.00025**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(A * !C) + (!A * B * !C)**	0.01860	**0.00086**	0.32940	**0.00086**	2.50740	**0.00086**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00086**	0.32940	**0.00086**	2.50740	**0.00086**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	**(A * !C) + (!A * B * !C)**	0.01860	**-0.00027**	0.32940	**-0.00025**	2.50740	**-0.00024**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**-0.00027**	0.32940	**-0.00026**	2.50740	**-0.00025**

SDFRRS

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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**	**x**	**0**	**x**	**1**	**0**
x	**x**	**x**	**0**	**1**	**x**	**0**	**1**
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	0.00210	0.00214	0.00379	0.00187	0.00564	0.00325	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	1377.23000	1683.56000	1799.86000

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	**0.20298**	0.32940	0.06480	**0.39253**	2.50740	0.30000	**0.96342**
	SET_B->Q (FR)	0.01860	0.00100	**0.08289**	0.32940	0.06480	**0.28471**	2.50740	0.30000	**0.85050**

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	**0.17029**	0.32940	0.06480	**0.34488**	2.50740	0.30000	**0.86168**
	RESET_B->Q (FF)	0.01860	0.00100	**0.14155**	0.32940	0.06480	**0.32430**	2.50740	0.30000	**0.83036**

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	**0.20298**	0.32940	0.06480	**0.39253**	2.50740	0.30000	**0.96342**

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	**0.17029**	0.32940	0.06480	**0.34488**	2.50740	0.30000	**0.86168**

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	**0.14012**	0.32940	0.06480	**0.34720**	2.50740	0.30000	**0.93429**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.11050**	0.32940	0.06480	**0.33183**	2.50740	0.30000	**0.91198**

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	**0.16987**	0.32940	0.06480	**0.37035**	2.50740	0.30000	**0.87749**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.05583**	0.32940	0.06480	**0.26092**	2.50740	0.30000	**0.77917**

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	**0.14012**	0.32940	0.06480	**0.34720**	2.50740	0.30000	**0.93429**

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	**0.16987**	0.32940	0.06480	**0.37035**	2.50740	0.30000	**0.87749**

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	**-0.06602**	1.26300	1.26300	**-0.19158**	2.50740	2.50740	**-0.25678**
	setup	CLK (R)	0.01860	0.01860	**0.08314**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.26859**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.11333**	2.50740	2.50740	**-0.13577**
	setup	CLK (R)	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.17119**

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	**-0.08314**	1.26300	1.26300	**-0.21857**	2.50740	2.50740	**-0.29811**
	setup	CLK (R)	0.01860	0.01860	**0.10025**	1.26300	1.26300	**0.23206**	2.50740	2.50740	**0.31286**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.08803**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.14758**
	setup	CLK (R)	0.01860	0.01860	**0.12470**	1.26300	1.26300	**0.15111**	2.50740	2.50740	**0.18004**

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	**-0.06602**	1.26300	1.26300	**-0.20238**	2.50740	2.50740	**-0.28040**
	setup	CLK (R)	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.31286**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.07825**	2.50740	2.50740	**-0.07969**
	setup	CLK (R)	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.10524**	2.50740	2.50740	**0.11511**

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	**0.04401**	1.26300	1.26300	**0.08095**	2.50740	2.50740	**0.09445**
	removal	CLK (R)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.07969**

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	**0.01223**	1.26300	1.26300	**0.08365**	2.50740	2.50740	**0.24498**
	removal	CLK (R)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**0.07286**	2.50740	2.50740	**0.07379**
	hold	RESET_B (R)	0.01860	0.01860	**-0.05379**	1.26300	1.26300	**-0.15381**	2.50740	2.50740	**-0.22137**
	setup	RESET_B (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.25088**

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	**0.02089**	0.32940	0.06480	**0.02228**	2.50740	0.30000	**0.03563**
	SET_B	0.01860	0.00100	**0.03854**	0.32940	0.06480	**0.09670**	2.50740	0.30000	**0.33513**

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	**0.02049**	0.32940	0.06480	**0.02179**	2.50740	0.30000	**0.03572**
	RESET_B	0.01860	0.00100	**0.04381**	0.32940	0.06480	**0.10067**	2.50740	0.30000	**0.32023**

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	**0.02089**	0.32940	0.06480	**0.02228**	2.50740	0.30000	**0.03563**

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	**0.02049**	0.32940	0.06480	**0.02179**	2.50740	0.30000	**0.03572**

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	**0.02050**	0.32940	0.06480	**0.02185**	2.50740	0.30000	**0.03591**
	RESET_B	0.01860	0.00100	**0.04379**	0.32940	0.06480	**0.10077**	2.50740	0.30000	**0.32054**

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	**0.02089**	0.32940	0.06480	**0.02225**	2.50740	0.30000	**0.03560**
	SET_B	0.01860	0.00100	**0.03855**	0.32940	0.06480	**0.09663**	2.50740	0.30000	**0.33493**

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	**0.02050**	0.32940	0.06480	**0.02185**	2.50740	0.30000	**0.03591**

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	**0.02089**	0.32940	0.06480	**0.02225**	2.50740	0.30000	**0.03560**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00641**	0.32940	**0.00676**	2.50740	**0.01750**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00573**	0.32940	**0.00625**	2.50740	**0.01669**

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	**0.01382**	0.32940	**0.01432**	2.50740	**0.02635**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00641**	0.32940	**0.00676**	2.50740	**0.01750**

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	**0.01404**	0.32940	**0.01464**	2.50740	**0.02616**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00573**	0.32940	**0.00625**	2.50740	**0.01669**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00785**	0.32940	**0.00798**	2.50740	**0.01751**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00857**	0.32940	**0.00877**	2.50740	**0.01823**

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	**0.01559**	0.32940	**0.01589**	2.50740	**0.02648**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00785**	0.32940	**0.00798**	2.50740	**0.01751**

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	**0.01959**	0.32940	**0.01977**	2.50740	**0.03032**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00857**	0.32940	**0.00877**	2.50740	**0.01823**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01674**	0.32940	**0.01789**	2.50740	**0.03240**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01822**	0.32940	**0.01936**	2.50740	**0.03315**

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	**0.01674**	0.32940	**0.01789**	2.50740	**0.03240**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02288**	0.32940	**0.02358**	2.50740	**0.03802**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01584**	0.32940	**0.01777**	2.50740	**0.04453**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00780**	0.32940	**0.00953**	2.50740	**0.03497**

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	**0.01822**	0.32940	**0.01936**	2.50740	**0.03315**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02472**	0.32940	**0.03143**	2.50740	**0.04531**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01005**	0.32940	**0.03362**	2.50740	**0.05853**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00846**	0.32940	**0.01004**	2.50740	**0.03376**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01468**	0.32940	**0.01646**	2.50740	**0.04368**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01771**	0.32940	**0.02003**	2.50740	**0.04675**

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	**0.01409**	0.32940	**0.01582**	2.50740	**0.04302**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01904**	0.32940	**0.02074**	2.50740	**0.04778**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01416**	0.32940	**0.01591**	2.50740	**0.04314**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01444**	0.32940	**0.01618**	2.50740	**0.04338**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01468**	0.32940	**0.01646**	2.50740	**0.04368**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01414**	0.32940	**0.01591**	2.50740	**0.04314**

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	**0.01369**	0.32940	**0.01566**	2.50740	**0.04181**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.02468**	0.32940	**0.02657**	2.50740	**0.05339**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01771**	0.32940	**0.02003**	2.50740	**0.04675**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.02638**	0.32940	**0.02871**	2.50740	**0.05551**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01402**	0.32940	**0.01596**	2.50740	**0.04198**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01369**	0.32940	**0.01566**	2.50740	**0.04182**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01366**	0.32940	**0.01562**	2.50740	**0.04164**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01401**	0.32940	**0.01595**	2.50740	**0.04198**

SGCLK

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00213	0.00259	0.00543	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	818.68200	878.32400	941.93500

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	**0.05327**	0.32940	0.06480	**0.23569**	2.50740	0.30000	**0.82239**

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	**0.04333**	0.32940	0.06480	**0.21632**	2.50740	0.30000	**0.70869**

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	**-0.02703**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.18000**
	setup	CLK (R)	0.01860	0.01860	**0.04425**	1.26300	1.26300	**0.18889**	2.50740	2.50740	**0.27128**

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	**-0.04108**	1.26300	1.26300	**-0.11873**	2.50740	2.50740	**-0.17089**
	setup	CLK (R)	0.01860	0.01860	**0.06925**	1.26300	1.26300	**0.14841**	2.50740	2.50740	**0.20723**

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	**-0.02976**	1.26300	1.26300	**-0.15920**	2.50740	2.50740	**-0.22764**
	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	**-0.04479**	1.26300	1.26300	**-0.09444**	2.50740	2.50740	**-0.13138**
	setup	CLK (R)	0.01860	0.01860	**0.07051**	1.26300	1.26300	**0.12143**	2.50740	2.50740	**0.16476**

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	**0.01186**	0.32940	0.06480	**0.01268**	2.50740	0.30000	**0.02979**

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	**0.00743**	0.32940	0.06480	**0.00950**	2.50740	0.30000	**0.02701**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.02360**	0.32940	**0.02532**	2.50740	**0.04342**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.02340**	0.32940	**0.03900**	2.50740	**0.05659**

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	**0.02360**	0.32940	**0.02532**	2.50740	**0.04342**

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	**0.02340**	0.32940	**0.03900**	2.50740	**0.05659**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01305**	0.32940	**0.01411**	2.50740	**0.03220**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.02427**	0.32940	**0.03783**	2.50740	**0.05404**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00832**	0.32940	**0.01004**	2.50740	**0.03328**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00873**	0.32940	**0.01060**	2.50740	**0.03356**

TIE0

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	246.50300	246.50300	246.50300

TIE1

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	230.88300	230.88300	230.88300

XNOR2_1

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

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	0.00610	0.00537	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	260.35300	440.21700	585.62300

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	**0.05190**	0.32940	0.06480	**0.23427**	2.50740	0.30000	**0.81888**
	A->Y (FR)	0.01860	0.00100	**0.03675**	0.32940	0.06480	**0.37288**	2.50740	0.30000	**1.86731**
	B->Y (RR)	0.01860	0.00100	**0.04833**	0.32940	0.06480	**0.23495**	2.50740	0.30000	**0.83497**
	B->Y (FR)	0.01860	0.00100	**0.03238**	0.32940	0.06480	**0.40111**	2.50740	0.30000	**2.09033**

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	**0.05017**	0.32940	0.06480	**0.30190**	2.50740	0.30000	**1.09040**
	A->Y (RF)	0.01860	0.00100	**0.03507**	0.32940	0.06480	**0.33731**	2.50740	0.30000	**1.72857**
	B->Y (FF)	0.01860	0.00100	**0.05059**	0.32940	0.06480	**0.29284**	2.50740	0.30000	**1.06931**
	B->Y (RF)	0.01860	0.00100	**0.02948**	0.32940	0.06480	**0.33026**	2.50740	0.30000	**1.71559**

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	**0.00978**	0.32940	0.06480	**0.01082**	2.50740	0.30000	**0.02805**
	B	0.01860	0.00100	**0.00963**	0.32940	0.06480	**0.01094**	2.50740	0.30000	**0.02894**

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	**0.00851**	0.32940	0.06480	**0.01021**	2.50740	0.30000	**0.02817**
	B	0.01860	0.00100	**0.00911**	0.32940	0.06480	**0.00933**	2.50740	0.30000	**0.02764**

XOR2_1

sg13g2_stdcell_fast_1p32V_m40C Cell Library: Process sg13g2_stdcell_fast_1p32V_m40C, Voltage 1.32, Temp -40.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xor2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00629	0.00552	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	333.21500	407.76900	475.67600

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	**0.05049**	0.32940	0.06480	**0.35963**	2.50740	0.30000	**1.38681**
	A->X (FR)	0.01860	0.00100	**0.04029**	0.32940	0.06480	**0.37742**	2.50740	0.30000	**1.87651**
	B->X (RR)	0.01860	0.00100	**0.05176**	0.32940	0.06480	**0.34804**	2.50740	0.30000	**1.35005**
	B->X (FR)	0.01860	0.00100	**0.03434**	0.32940	0.06480	**0.37067**	2.50740	0.30000	**1.86606**

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	**0.05862**	0.32940	0.06480	**0.22052**	2.50740	0.30000	**0.69577**
	A->X (RF)	0.01860	0.00100	**0.03268**	0.32940	0.06480	**0.33415**	2.50740	0.30000	**1.71883**
	B->X (FF)	0.01860	0.00100	**0.05439**	0.32940	0.06480	**0.22453**	2.50740	0.30000	**0.71754**
	B->X (RF)	0.01860	0.00100	**0.02927**	0.32940	0.06480	**0.35879**	2.50740	0.30000	**1.89938**

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	**0.00844**	0.32940	0.06480	**0.00984**	2.50740	0.30000	**0.02757**
	B	0.01860	0.00100	**0.00899**	0.32940	0.06480	**0.00916**	2.50740	0.30000	**0.02720**

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	**0.01053**	0.32940	0.06480	**0.01163**	2.50740	0.30000	**0.02832**
	B	0.01860	0.00100	**0.00967**	0.32940	0.06480	**0.01124**	2.50740	0.30000	**0.02841**