sg13g2_stdcell_fast_1p65V_m40C Library

Cell Groups
A21OIx
A221OI
A22OI
AND2x
AND3x
AND4x
AO21x
BTLx
BUx
DECAPx
DFFRRx
DLHQ
DLHRQ
DLHR
DLLRQ
DLLR
DLY1
DLY2
DLY4
EINVINx
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_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00603	0.00668	0.00589	0.60000
sg13g2_a21oi_1	0.00313	0.00333	0.00300	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_2	823.98800	2427.10000	3998.11000
sg13g2_a21oi_1	411.99300	1213.55000	1999.05000

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	**0.02152**	0.32940	0.12960	**0.26747**	2.50740	0.60000	**1.36037**
	A2->Y (FR)	0.01860	0.00100	**0.02585**	0.32940	0.12960	**0.27170**	2.50740	0.60000	**1.36992**
	B1->Y (FR)	0.01860	0.00100	**0.02141**	0.32940	0.12960	**0.30253**	2.50740	0.60000	**1.62185**
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.02339**	0.32940	0.06480	**0.26688**	2.50740	0.30000	**1.35683**
	A2->Y (FR)	0.01860	0.00100	**0.02761**	0.32940	0.06480	**0.27127**	2.50740	0.30000	**1.37054**
	B1->Y (FR)	0.01860	0.00100	**0.02311**	0.32940	0.06480	**0.30298**	2.50740	0.30000	**1.62271**

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	**0.01986**	0.32940	0.12960	**0.26175**	2.50740	0.60000	**1.40128**
	A2->Y (RF)	0.01860	0.00100	**0.02157**	0.32940	0.12960	**0.23377**	2.50740	0.60000	**1.20539**
	B1->Y (RF)	0.01860	0.00100	**0.01089**	0.32940	0.12960	**0.19073**	2.50740	0.60000	**1.04648**
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.02139**	0.32940	0.06480	**0.26187**	2.50740	0.30000	**1.39962**
	A2->Y (RF)	0.01860	0.00100	**0.02301**	0.32940	0.06480	**0.23361**	2.50740	0.30000	**1.20328**
	B1->Y (RF)	0.01860	0.00100	**0.01218**	0.32940	0.06480	**0.19122**	2.50740	0.30000	**1.04877**

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	**0.02141**	0.32940	0.12960	**0.30253**	2.50740	0.60000	**1.62185**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01667**	0.32940	0.12960	**0.29825**	2.50740	0.60000	**1.62172**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.01414**	0.32940	0.12960	**0.25470**	2.50740	0.60000	**1.39494**
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02311**	0.32940	0.06480	**0.30298**	2.50740	0.30000	**1.62271**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01861**	0.32940	0.06480	**0.29680**	2.50740	0.30000	**1.61224**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.01578**	0.32940	0.06480	**0.25420**	2.50740	0.30000	**1.39042**

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	**0.01153**	0.32940	0.12960	**0.19215**	2.50740	0.60000	**1.04213**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01115**	0.32940	0.12960	**0.19047**	2.50740	0.60000	**1.03935**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01089**	0.32940	0.12960	**0.19073**	2.50740	0.60000	**1.04648**
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01273**	0.32940	0.06480	**0.19266**	2.50740	0.30000	**1.04417**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01239**	0.32940	0.06480	**0.19098**	2.50740	0.30000	**1.04222**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01218**	0.32940	0.06480	**0.19122**	2.50740	0.30000	**1.04877**

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	**0.01409**	0.32940	0.12960	**0.02070**	2.50740	0.60000	**0.10379**
	A2	0.01860	0.00100	**0.01801**	0.32940	0.12960	**0.02405**	2.50740	0.60000	**0.11253**
	B1	0.01860	0.00100	**0.00942**	0.32940	0.12960	**0.01820**	2.50740	0.60000	**0.10809**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00720**	0.32940	0.06480	**0.01032**	2.50740	0.30000	**0.05170**
	A2	0.01860	0.00100	**0.00897**	0.32940	0.06480	**0.01178**	2.50740	0.30000	**0.05625**
	B1	0.01860	0.00100	**0.00458**	0.32940	0.06480	**0.00896**	2.50740	0.30000	**0.05377**

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	**0.01251**	0.32940	0.12960	**0.01896**	2.50740	0.60000	**0.09262**
	A2	0.01860	0.00100	**0.01691**	0.32940	0.12960	**0.02275**	2.50740	0.60000	**0.10048**
	B1	0.01860	0.00100	**0.00532**	0.32940	0.12960	**0.01494**	2.50740	0.60000	**0.10611**
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00671**	0.32940	0.06480	**0.00997**	2.50740	0.30000	**0.04697**
	A2	0.01860	0.00100	**0.00887**	0.32940	0.06480	**0.01173**	2.50740	0.30000	**0.05036**
	B1	0.01860	0.00100	**0.00320**	0.32940	0.06480	**0.00786**	2.50740	0.30000	**0.05375**

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	**0.00942**	0.32940	0.12960	**0.01820**	2.50740	0.60000	**0.10809**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00809**	0.32940	0.12960	**0.01718**	2.50740	0.60000	**0.10741**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00826**	0.32940	0.12960	**0.01865**	2.50740	0.60000	**0.11973**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00458**	0.32940	0.06480	**0.00896**	2.50740	0.30000	**0.05377**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00406**	0.32940	0.06480	**0.00861**	2.50740	0.30000	**0.05362**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00412**	0.32940	0.06480	**0.00936**	2.50740	0.30000	**0.05992**

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	**0.01256**	0.32940	0.12960	**0.02142**	2.50740	0.60000	**0.10314**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00570**	0.32940	0.12960	**0.01449**	2.50740	0.60000	**0.09673**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00532**	0.32940	0.12960	**0.01494**	2.50740	0.60000	**0.10611**
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00682**	0.32940	0.06480	**0.01124**	2.50740	0.30000	**0.05186**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00341**	0.32940	0.06480	**0.00772**	2.50740	0.30000	**0.04925**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00320**	0.32940	0.06480	**0.00786**	2.50740	0.30000	**0.05375**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**-0.00271**	0.32940	**-0.00275**	2.50740	**-0.00273**
sg13g2_a21oi_1	0.01860	**-0.00123**	0.32940	**-0.00127**	2.50740	**-0.00128**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00275**	0.32940	**0.00284**	2.50740	**0.00285**
sg13g2_a21oi_1	0.01860	**0.00123**	0.32940	**0.00127**	2.50740	**0.00128**

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	**-0.00271**	0.32940	**-0.00275**	2.50740	**-0.00273**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**-0.00123**	0.32940	**-0.00127**	2.50740	**-0.00128**

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	**0.00275**	0.32940	**0.00284**	2.50740	**0.00285**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A2 * !B1)	0.01860	**0.00123**	0.32940	**0.00127**	2.50740	**0.00128**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21oi_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_a21oi_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21oi_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_a21oi_2	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!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_a21oi_2	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * !B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21oi_1	B1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!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_a21oi_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21oi_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21oi_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21oi_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21oi_1	(A1 * A2)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

A221OI

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00328	0.00338	0.00299	0.00310	0.00272	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	615.40700	1955.81000	3301.51000

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	**0.04326**	0.32940	0.12960	**0.60628**	2.50740	0.60000	**2.81824**
	A2->Y (FR)	0.01860	0.00100	**0.04956**	0.32940	0.12960	**0.61101**	2.50740	0.60000	**2.82119**
	B1->Y (FR)	0.01860	0.00100	**0.04521**	0.32940	0.12960	**0.63299**	2.50740	0.60000	**3.04163**
	B2->Y (FR)	0.01860	0.00100	**0.05127**	0.32940	0.12960	**0.63616**	2.50740	0.60000	**3.04209**
	C1->Y (FR)	0.01860	0.00100	**0.03335**	0.32940	0.12960	**0.64323**	2.50740	0.60000	**3.22101**

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	**0.02727**	0.32940	0.12960	**0.40547**	2.50740	0.60000	**2.14317**
	A2->Y (RF)	0.01860	0.00100	**0.02900**	0.32940	0.12960	**0.37870**	2.50740	0.60000	**1.91091**
	B1->Y (RF)	0.01860	0.00100	**0.02400**	0.32940	0.12960	**0.39703**	2.50740	0.60000	**2.13551**
	B2->Y (RF)	0.01860	0.00100	**0.02648**	0.32940	0.12960	**0.37322**	2.50740	0.60000	**1.90066**
	C1->Y (RF)	0.01860	0.00100	**0.01456**	0.32940	0.12960	**0.28607**	2.50740	0.60000	**1.57960**

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	**0.05053**	0.32940	0.12960	**0.61152**	2.50740	0.60000	**2.81658**
	A1->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.04326**	0.32940	0.12960	**0.60628**	2.50740	0.60000	**2.81824**
	A1->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.03974**	0.32940	0.12960	**0.52734**	2.50740	0.60000	**2.50631**
	A2->Y (FR)	(B1 * !B2)	0.01860	0.00100	**0.05659**	0.32940	0.12960	**0.61560**	2.50740	0.60000	**2.81943**
	A2->Y (FR)	(!B1 * B2)	0.01860	0.00100	**0.04956**	0.32940	0.12960	**0.61101**	2.50740	0.60000	**2.82119**
	A2->Y (FR)	(!B1 * !B2)	0.01860	0.00100	**0.04489**	0.32940	0.12960	**0.53104**	2.50740	0.60000	**2.50672**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.04521**	0.32940	0.12960	**0.63299**	2.50740	0.60000	**3.04163**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03789**	0.32940	0.12960	**0.62700**	2.50740	0.60000	**3.04032**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.03238**	0.32940	0.12960	**0.53521**	2.50740	0.60000	**2.63590**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.05127**	0.32940	0.12960	**0.63616**	2.50740	0.60000	**3.04209**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.04419**	0.32940	0.12960	**0.63059**	2.50740	0.60000	**3.04084**
	B2->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.03746**	0.32940	0.12960	**0.53779**	2.50740	0.60000	**2.63509**
	C1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03335**	0.32940	0.12960	**0.64323**	2.50740	0.60000	**3.22101**

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	**0.02727**	0.32940	0.12960	**0.40547**	2.50740	0.60000	**2.14317**
	A1->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.02632**	0.32940	0.12960	**0.40301**	2.50740	0.60000	**2.13996**
	A1->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.02752**	0.32940	0.12960	**0.40502**	2.50740	0.60000	**2.14123**
	A2->Y (RF)	(B1 * !B2)	0.01860	0.00100	**0.02880**	0.32940	0.12960	**0.37889**	2.50740	0.60000	**1.90975**
	A2->Y (RF)	(!B1 * B2)	0.01860	0.00100	**0.02782**	0.32940	0.12960	**0.37669**	2.50740	0.60000	**1.90687**
	A2->Y (RF)	(!B1 * !B2)	0.01860	0.00100	**0.02900**	0.32940	0.12960	**0.37870**	2.50740	0.60000	**1.91091**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02491**	0.32940	0.12960	**0.40025**	2.50740	0.60000	**2.13348**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02424**	0.32940	0.12960	**0.39803**	2.50740	0.60000	**2.13177**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.02400**	0.32940	0.12960	**0.39703**	2.50740	0.60000	**2.13551**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02648**	0.32940	0.12960	**0.37322**	2.50740	0.60000	**1.90066**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02581**	0.32940	0.12960	**0.37127**	2.50740	0.60000	**1.89656**
	B2->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.02556**	0.32940	0.12960	**0.37133**	2.50740	0.60000	**1.90030**
	C1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01456**	0.32940	0.12960	**0.28607**	2.50740	0.60000	**1.57960**

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	**0.01578**	0.32940	0.12960	**0.01647**	2.50740	0.60000	**0.04022**
	A2	0.01860	0.00100	**0.01604**	0.32940	0.12960	**0.01653**	2.50740	0.60000	**0.04149**
	B1	0.01860	0.00100	**0.01188**	0.32940	0.12960	**0.01280**	2.50740	0.60000	**0.03256**
	B2	0.01860	0.00100	**0.01207**	0.32940	0.12960	**0.01268**	2.50740	0.60000	**0.03356**
	C1	0.01860	0.00100	**0.00629**	0.32940	0.12960	**0.00819**	2.50740	0.60000	**0.03307**

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	**0.00898**	0.32940	0.12960	**0.00953**	2.50740	0.60000	**0.02884**
	A2	0.01860	0.00100	**0.01238**	0.32940	0.12960	**0.01285**	2.50740	0.60000	**0.03347**
	B1	0.01860	0.00100	**0.00576**	0.32940	0.12960	**0.00673**	2.50740	0.60000	**0.02755**
	B2	0.01860	0.00100	**0.00923**	0.32940	0.12960	**0.01032**	2.50740	0.60000	**0.03124**
	C1	0.01860	0.00100	**0.00814**	0.32940	0.12960	**0.01006**	2.50740	0.60000	**0.03113**

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	**0.01578**	0.32940	0.12960	**0.01647**	2.50740	0.60000	**0.04022**
	A1	(!B1 * B2)	0.01860	0.00100	**0.01518**	0.32940	0.12960	**0.01605**	2.50740	0.60000	**0.03991**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.01908**	0.32940	0.12960	**0.01991**	2.50740	0.60000	**0.04460**
	A2	(B1 * !B2)	0.01860	0.00100	**0.01604**	0.32940	0.12960	**0.01653**	2.50740	0.60000	**0.04149**
	A2	(!B1 * B2)	0.01860	0.00100	**0.01557**	0.32940	0.12960	**0.01611**	2.50740	0.60000	**0.04173**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.01947**	0.32940	0.12960	**0.02003**	2.50740	0.60000	**0.04577**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01188**	0.32940	0.12960	**0.01280**	2.50740	0.60000	**0.03256**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01126**	0.32940	0.12960	**0.01243**	2.50740	0.60000	**0.03242**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01126**	0.32940	0.12960	**0.01265**	2.50740	0.60000	**0.03574**
	B2	(A1 * !A2)	0.01860	0.00100	**0.01207**	0.32940	0.12960	**0.01268**	2.50740	0.60000	**0.03356**
	B2	(!A1 * A2)	0.01860	0.00100	**0.01160**	0.32940	0.12960	**0.01233**	2.50740	0.60000	**0.03319**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.01159**	0.32940	0.12960	**0.01257**	2.50740	0.60000	**0.03590**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00629**	0.32940	0.12960	**0.00819**	2.50740	0.60000	**0.03307**

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	**0.01241**	0.32940	0.12960	**0.01306**	2.50740	0.60000	**0.03266**
	A1	(!B1 * B2)	0.01860	0.00100	**0.00898**	0.32940	0.12960	**0.00953**	2.50740	0.60000	**0.02884**
	A1	(!B1 * !B2)	0.01860	0.00100	**0.00728**	0.32940	0.12960	**0.00791**	2.50740	0.60000	**0.02770**
	A2	(B1 * !B2)	0.01860	0.00100	**0.01580**	0.32940	0.12960	**0.01631**	2.50740	0.60000	**0.03723**
	A2	(!B1 * B2)	0.01860	0.00100	**0.01238**	0.32940	0.12960	**0.01285**	2.50740	0.60000	**0.03347**
	A2	(!B1 * !B2)	0.01860	0.00100	**0.01067**	0.32940	0.12960	**0.01126**	2.50740	0.60000	**0.03319**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00938**	0.32940	0.12960	**0.01054**	2.50740	0.60000	**0.02849**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00595**	0.32940	0.12960	**0.00710**	2.50740	0.60000	**0.02547**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00576**	0.32940	0.12960	**0.00673**	2.50740	0.60000	**0.02755**
	B2	(A1 * !A2)	0.01860	0.00100	**0.01285**	0.32940	0.12960	**0.01372**	2.50740	0.60000	**0.03340**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00941**	0.32940	0.12960	**0.01037**	2.50740	0.60000	**0.02919**
	B2	(!A1 * !A2)	0.01860	0.00100	**0.00923**	0.32940	0.12960	**0.01032**	2.50740	0.60000	**0.03124**
	C1	(!A1 * A2)	0.01860	0.00100	**0.00814**	0.32940	0.12960	**0.01006**	2.50740	0.60000	**0.03113**

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

Passive power(pJ) for B1 falling :

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

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(A1 * A2 * !C1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(A1 * A2 * !C1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for B2 rising :

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

Passive power(pJ) for B2 falling :

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

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(A1 * A2 * !C1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(A1 * A2 * !C1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for C1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**-0.00098**	0.32940	**-0.00101**	2.50740	**-0.00102**

Passive power(pJ) for C1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a221oi_1	0.01860	**0.00098**	0.32940	**0.00101**	2.50740	**0.00102**

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	**-0.00098**	0.32940	**-0.00101**	2.50740	**-0.00102**

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	**0.00098**	0.32940	**0.00101**	2.50740	**0.00102**

A22OI

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Truth Table

INPUT				OUTPUT
A1	A2	B1	B2	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
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	0.00343	0.00343	0.00397	0.00403	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	406.81900	1461.89000	2677.82000

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	**0.02416**	0.32940	0.06480	**0.24407**	2.50740	0.30000	**1.26407**
	A2->Y (FR)	0.01860	0.00100	**0.02718**	0.32940	0.06480	**0.24721**	2.50740	0.30000	**1.27330**
	B1->Y (FR)	0.01860	0.00100	**0.02049**	0.32940	0.06480	**0.25727**	2.50740	0.30000	**1.37893**
	B2->Y (FR)	0.01860	0.00100	**0.01771**	0.32940	0.06480	**0.25281**	2.50740	0.30000	**1.36809**

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	**0.02645**	0.32940	0.06480	**0.26766**	2.50740	0.30000	**1.41338**
	A2->Y (RF)	0.01860	0.00100	**0.02797**	0.32940	0.06480	**0.23947**	2.50740	0.30000	**1.21657**
	B1->Y (RF)	0.01860	0.00100	**0.01995**	0.32940	0.06480	**0.22923**	2.50740	0.30000	**1.19978**
	B2->Y (RF)	0.01860	0.00100	**0.01852**	0.32940	0.06480	**0.25738**	2.50740	0.30000	**1.39626**

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	**0.00515**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	A2	0.01860	0.00100	**0.00480**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B1	0.01860	0.00100	**0.00088**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B2	0.01860	0.00100	**0.00106**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**

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	**0.00076**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	A2	0.01860	0.00100	**0.00171**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B1	0.01860	0.00100	**0.00351**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**
	B2	0.01860	0.00100	**-0.00032**	0.32940	0.06480	**0.00000**	2.50740	0.30000	**0.00000**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00563**	0.32940	**0.01570**	2.50740	**0.10947**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00793**	0.32940	**0.02658**	2.50740	**0.11969**

Passive power(pJ) for A2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00805**	0.32940	**0.01872**	2.50740	**0.11537**

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00863**	0.32940	**0.02546**	2.50740	**0.12181**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00449**	0.32940	**0.01546**	2.50740	**0.11609**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00417**	0.32940	**0.01637**	2.50740	**0.11557**

Passive power(pJ) for B2 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00500**	0.32940	**0.01637**	2.50740	**0.10695**

Passive power(pJ) for B2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a22oi_1	0.01860	**0.00366**	0.32940	**0.01584**	2.50740	**0.11210**

AND2x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00285	0.00290	0.60000
sg13g2_and2_1	0.00289	0.00292	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_2	1611.43000	1783.93000	2156.78000
sg13g2_and2_1	881.88800	1184.62000	1427.23000

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	**0.04110**	0.32940	0.12960	**0.19729**	2.50740	0.60000	**0.69449**
	B->X (RR)	0.01860	0.00100	**0.04275**	0.32940	0.12960	**0.18558**	2.50740	0.60000	**0.63138**
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.03324**	0.32940	0.06480	**0.17192**	2.50740	0.30000	**0.64539**
	B->X (RR)	0.01860	0.00100	**0.03488**	0.32940	0.06480	**0.16282**	2.50740	0.30000	**0.58877**

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	**0.03489**	0.32940	0.12960	**0.17320**	2.50740	0.60000	**0.56265**
	B->X (FF)	0.01860	0.00100	**0.03735**	0.32940	0.12960	**0.18221**	2.50740	0.60000	**0.61426**
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.02883**	0.32940	0.06480	**0.14865**	2.50740	0.30000	**0.51368**
	B->X (FF)	0.01860	0.00100	**0.03141**	0.32940	0.06480	**0.15960**	2.50740	0.30000	**0.56877**

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	**0.02205**	0.32940	0.12960	**0.03057**	2.50740	0.60000	**0.11565**
	B	0.01860	0.00100	**0.02500**	0.32940	0.12960	**0.03245**	2.50740	0.60000	**0.11742**
sg13g2_and2_1	A	0.01860	0.00100	**0.01259**	0.32940	0.06480	**0.02197**	2.50740	0.30000	**0.10561**
	B	0.01860	0.00100	**0.01554**	0.32940	0.06480	**0.02384**	2.50740	0.30000	**0.11002**

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	**0.01941**	0.32940	0.12960	**0.02830**	2.50740	0.60000	**0.10904**
	B	0.01860	0.00100	**0.01971**	0.32940	0.12960	**0.02905**	2.50740	0.60000	**0.11365**
sg13g2_and2_1	A	0.01860	0.00100	**0.01100**	0.32940	0.06480	**0.02064**	2.50740	0.30000	**0.10200**
	B	0.01860	0.00100	**0.01119**	0.32940	0.06480	**0.02113**	2.50740	0.30000	**0.10483**

AND3x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00263	0.00284	0.00289	0.60000
sg13g2_and3_1	0.00264	0.00287	0.00288	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_2	1615.46000	2042.82000	2698.25000
sg13g2_and3_1	885.91900	1378.40000	2021.60000

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	**0.05477**	0.32940	0.12960	**0.22628**	2.50740	0.60000	**0.79132**
	B->X (RR)	0.01860	0.00100	**0.05916**	0.32940	0.12960	**0.21825**	2.50740	0.60000	**0.74861**
	C->X (RR)	0.01860	0.00100	**0.06084**	0.32940	0.12960	**0.20386**	2.50740	0.60000	**0.67714**
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.04312**	0.32940	0.06480	**0.19663**	2.50740	0.30000	**0.73492**
	B->X (RR)	0.01860	0.00100	**0.04753**	0.32940	0.06480	**0.19137**	2.50740	0.30000	**0.69623**
	C->X (RR)	0.01860	0.00100	**0.04921**	0.32940	0.06480	**0.17921**	2.50740	0.30000	**0.63357**

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	**0.03646**	0.32940	0.12960	**0.17454**	2.50740	0.60000	**0.52808**
	B->X (FF)	0.01860	0.00100	**0.03907**	0.32940	0.12960	**0.18333**	2.50740	0.60000	**0.57045**
	C->X (FF)	0.01860	0.00100	**0.04080**	0.32940	0.12960	**0.19048**	2.50740	0.60000	**0.62107**
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.03050**	0.32940	0.06480	**0.15014**	2.50740	0.30000	**0.47557**
	B->X (FF)	0.01860	0.00100	**0.03320**	0.32940	0.06480	**0.16039**	2.50740	0.30000	**0.52172**
	C->X (FF)	0.01860	0.00100	**0.03479**	0.32940	0.06480	**0.16917**	2.50740	0.30000	**0.57717**

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	**0.02674**	0.32940	0.12960	**0.03173**	2.50740	0.60000	**0.10682**
	B	0.01860	0.00100	**0.02878**	0.32940	0.12960	**0.03259**	2.50740	0.60000	**0.11091**
	C	0.01860	0.00100	**0.03161**	0.32940	0.12960	**0.03469**	2.50740	0.60000	**0.11847**
sg13g2_and3_1	A	0.01860	0.00100	**0.01545**	0.32940	0.06480	**0.02356**	2.50740	0.30000	**0.10119**
	B	0.01860	0.00100	**0.01750**	0.32940	0.06480	**0.02441**	2.50740	0.30000	**0.10233**
	C	0.01860	0.00100	**0.02031**	0.32940	0.06480	**0.02630**	2.50740	0.30000	**0.11049**

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	**0.01891**	0.32940	0.12960	**0.02652**	2.50740	0.60000	**0.10194**
	B	0.01860	0.00100	**0.02026**	0.32940	0.12960	**0.02807**	2.50740	0.60000	**0.10410**
	C	0.01860	0.00100	**0.02058**	0.32940	0.12960	**0.02877**	2.50740	0.60000	**0.11177**
sg13g2_and3_1	A	0.01860	0.00100	**0.01037**	0.32940	0.06480	**0.01875**	2.50740	0.30000	**0.09280**
	B	0.01860	0.00100	**0.01161**	0.32940	0.06480	**0.01989**	2.50740	0.30000	**0.09604**
	C	0.01860	0.00100	**0.01183**	0.32940	0.06480	**0.02104**	2.50740	0.30000	**0.10175**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**-0.00083**	0.32940	**-0.00112**	2.50740	**-0.00122**
sg13g2_and3_1	0.01860	**-0.00084**	0.32940	**-0.00112**	2.50740	**-0.00122**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and3_2	0.01860	**0.00083**	0.32940	**0.00112**	2.50740	**0.00122**
sg13g2_and3_1	0.01860	**0.00084**	0.32940	**0.00112**	2.50740	**0.00122**

AND4x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00251	0.00253	0.00296	0.00292	0.60000
sg13g2_and4_1	0.00253	0.00254	0.00297	0.00293	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_2	1619.64000	2202.61000	3239.66000
sg13g2_and4_1	890.08400	1505.62000	2625.89000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_2	A->X (RR)	0.01860	0.00100	**0.06893**	0.32940	0.12960	**0.25231**	2.50740	0.60000	**0.87405**
	B->X (RR)	0.01860	0.00100	**0.07559**	0.32940	0.12960	**0.24710**	2.50740	0.60000	**0.84060**
	C->X (RR)	0.01860	0.00100	**0.07941**	0.32940	0.12960	**0.23585**	2.50740	0.60000	**0.78509**
	D->X (RR)	0.01860	0.00100	**0.08126**	0.32940	0.12960	**0.22342**	2.50740	0.60000	**0.71466**
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.05383**	0.32940	0.06480	**0.21979**	2.50740	0.30000	**0.81744**
	B->X (RR)	0.01860	0.00100	**0.06052**	0.32940	0.06480	**0.21665**	2.50740	0.30000	**0.78774**
	C->X (RR)	0.01860	0.00100	**0.06432**	0.32940	0.06480	**0.20812**	2.50740	0.30000	**0.73671**
	D->X (RR)	0.01860	0.00100	**0.06617**	0.32940	0.06480	**0.19740**	2.50740	0.30000	**0.67172**

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	**0.03757**	0.32940	0.12960	**0.17511**	2.50740	0.60000	**0.49560**
	B->X (FF)	0.01860	0.00100	**0.04022**	0.32940	0.12960	**0.18273**	2.50740	0.60000	**0.53406**
	C->X (FF)	0.01860	0.00100	**0.04213**	0.32940	0.12960	**0.19013**	2.50740	0.60000	**0.57559**
	D->X (FF)	0.01860	0.00100	**0.04356**	0.32940	0.12960	**0.19668**	2.50740	0.60000	**0.62434**
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.03196**	0.32940	0.06480	**0.15080**	2.50740	0.30000	**0.44099**
	B->X (FF)	0.01860	0.00100	**0.03467**	0.32940	0.06480	**0.16038**	2.50740	0.30000	**0.48293**
	C->X (FF)	0.01860	0.00100	**0.03646**	0.32940	0.06480	**0.16872**	2.50740	0.30000	**0.52992**
	D->X (FF)	0.01860	0.00100	**0.03764**	0.32940	0.06480	**0.17574**	2.50740	0.30000	**0.58205**

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	**0.03040**	0.32940	0.12960	**0.03166**	2.50740	0.60000	**0.10307**
	B	0.01860	0.00100	**0.03338**	0.32940	0.12960	**0.03364**	2.50740	0.60000	**0.10513**
	C	0.01860	0.00100	**0.03546**	0.32940	0.12960	**0.03517**	2.50740	0.60000	**0.11161**
	D	0.01860	0.00100	**0.03714**	0.32940	0.12960	**0.03657**	2.50740	0.60000	**0.12291**
sg13g2_and4_1	A	0.01860	0.00100	**0.01722**	0.32940	0.06480	**0.02377**	2.50740	0.30000	**0.09445**
	B	0.01860	0.00100	**0.02021**	0.32940	0.06480	**0.02535**	2.50740	0.30000	**0.09621**
	C	0.01860	0.00100	**0.02229**	0.32940	0.06480	**0.02704**	2.50740	0.30000	**0.10307**
	D	0.01860	0.00100	**0.02397**	0.32940	0.06480	**0.02873**	2.50740	0.30000	**0.10861**

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	**0.01940**	0.32940	0.12960	**0.02648**	2.50740	0.60000	**0.09801**
	B	0.01860	0.00100	**0.02007**	0.32940	0.12960	**0.02684**	2.50740	0.60000	**0.09905**
	C	0.01860	0.00100	**0.02119**	0.32940	0.12960	**0.02803**	2.50740	0.60000	**0.10379**
	D	0.01860	0.00100	**0.02141**	0.32940	0.12960	**0.02795**	2.50740	0.60000	**0.11202**
sg13g2_and4_1	A	0.01860	0.00100	**0.01088**	0.32940	0.06480	**0.01847**	2.50740	0.30000	**0.08612**
	B	0.01860	0.00100	**0.01141**	0.32940	0.06480	**0.01881**	2.50740	0.30000	**0.08912**
	C	0.01860	0.00100	**0.01237**	0.32940	0.06480	**0.02004**	2.50740	0.30000	**0.09565**
	D	0.01860	0.00100	**0.01238**	0.32940	0.06480	**0.02044**	2.50740	0.30000	**0.10048**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00083**	0.32940	**-0.00084**	2.50740	**-0.00082**
sg13g2_and4_1	0.01860	**-0.00083**	0.32940	**-0.00083**	2.50740	**-0.00082**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00119**	0.32940	**0.00122**	2.50740	**0.00123**
sg13g2_and4_1	0.01860	**0.00120**	0.32940	**0.00122**	2.50740	**0.00123**

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	**-0.00083**	0.32940	**-0.00084**	2.50740	**-0.00082**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**-0.00083**	0.32940	**-0.00083**	2.50740	**-0.00082**

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	**0.00119**	0.32940	**0.00122**	2.50740	**0.00123**
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**0.00120**	0.32940	**0.00122**	2.50740	**0.00123**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**-0.00068**	0.32940	**-0.00069**	2.50740	**-0.00069**
sg13g2_and4_1	0.01860	**-0.00068**	0.32940	**-0.00069**	2.50740	**-0.00069**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00075**	0.32940	**0.00079**	2.50740	**0.00080**
sg13g2_and4_1	0.01860	**0.00076**	0.32940	**0.00079**	2.50740	**0.00080**

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	**-0.00068**	0.32940	**-0.00069**	2.50740	**-0.00069**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**-0.00068**	0.32940	**-0.00069**	2.50740	**-0.00069**

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	**0.00075**	0.32940	**0.00079**	2.50740	**0.00080**
sg13g2_and4_1	**(A * C * !D) + (A * !C)**	0.01860	**0.00076**	0.32940	**0.00079**	2.50740	**0.00080**

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	**0.00102**	0.32940	**0.00097**	2.50740	**0.00096**
sg13g2_and4_1	0.01860	**0.00100**	0.32940	**0.00096**	2.50740	**0.00096**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_2	0.01860	**0.00032**	0.32940	**0.00015**	2.50740	**0.00007**
sg13g2_and4_1	0.01860	**0.00033**	0.32940	**0.00015**	2.50740	**0.00007**

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	**0.00102**	0.32940	**0.00097**	2.50740	**0.00096**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00100**	0.32940	**0.00096**	2.50740	**0.00096**

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	**0.00032**	0.32940	**0.00015**	2.50740	**0.00007**
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00033**	0.32940	**0.00015**	2.50740	**0.00007**

AO21x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00337	0.00335	0.00292	0.60000
sg13g2_a21o_1	0.00316	0.00323	0.00277	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_2	1463.02000	1989.28000	2488.15000
sg13g2_a21o_1	1094.65000	1428.47000	1866.63000

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	**0.04371**	0.32940	0.12960	**0.20013**	2.50740	0.60000	**0.67732**
	A2->X (RR)	0.01860	0.00100	**0.04512**	0.32940	0.12960	**0.18668**	2.50740	0.60000	**0.61257**
	B1->X (RR)	0.01860	0.00100	**0.02940**	0.32940	0.12960	**0.16646**	2.50740	0.60000	**0.51581**
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.04053**	0.32940	0.06480	**0.18984**	2.50740	0.30000	**0.68991**
	A2->X (RR)	0.01860	0.00100	**0.04205**	0.32940	0.06480	**0.17811**	2.50740	0.30000	**0.62870**
	B1->X (RR)	0.01860	0.00100	**0.02750**	0.32940	0.06480	**0.15642**	2.50740	0.30000	**0.52432**

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	**0.05430**	0.32940	0.12960	**0.18988**	2.50740	0.60000	**0.61503**
	A2->X (FF)	0.01860	0.00100	**0.05929**	0.32940	0.12960	**0.19975**	2.50740	0.60000	**0.66661**
	B1->X (FF)	0.01860	0.00100	**0.05492**	0.32940	0.12960	**0.21745**	2.50740	0.60000	**0.76498**
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.04308**	0.32940	0.06480	**0.16180**	2.50740	0.30000	**0.53152**
	A2->X (FF)	0.01860	0.00100	**0.04768**	0.32940	0.06480	**0.17246**	2.50740	0.30000	**0.58651**
	B1->X (FF)	0.01860	0.00100	**0.04305**	0.32940	0.06480	**0.18532**	2.50740	0.30000	**0.66954**

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	**0.02940**	0.32940	0.12960	**0.16646**	2.50740	0.60000	**0.51581**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.02825**	0.32940	0.12960	**0.15847**	2.50740	0.60000	**0.49633**
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.02750**	0.32940	0.06480	**0.15642**	2.50740	0.30000	**0.52432**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.02607**	0.32940	0.06480	**0.14832**	2.50740	0.30000	**0.50272**

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	**0.05492**	0.32940	0.12960	**0.21745**	2.50740	0.60000	**0.76498**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.04898**	0.32940	0.12960	**0.20669**	2.50740	0.60000	**0.74487**
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.04305**	0.32940	0.06480	**0.18532**	2.50740	0.30000	**0.66954**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.03791**	0.32940	0.06480	**0.17466**	2.50740	0.30000	**0.65051**

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	**0.02363**	0.32940	0.12960	**0.03216**	2.50740	0.60000	**0.12244**
	A2	0.01860	0.00100	**0.02697**	0.32940	0.12960	**0.03424**	2.50740	0.60000	**0.12698**
	B1	0.01860	0.00100	**0.02082**	0.32940	0.12960	**0.03092**	2.50740	0.60000	**0.12775**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01406**	0.32940	0.06480	**0.02263**	2.50740	0.30000	**0.10569**
	A2	0.01860	0.00100	**0.01711**	0.32940	0.06480	**0.02458**	2.50740	0.30000	**0.10981**
	B1	0.01860	0.00100	**0.01267**	0.32940	0.06480	**0.02291**	2.50740	0.30000	**0.11192**

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	**0.02707**	0.32940	0.12960	**0.03281**	2.50740	0.60000	**0.12157**
	A2	0.01860	0.00100	**0.02774**	0.32940	0.12960	**0.03213**	2.50740	0.60000	**0.12320**
	B1	0.01860	0.00100	**0.02245**	0.32940	0.12960	**0.03063**	2.50740	0.60000	**0.12295**
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01649**	0.32940	0.06480	**0.02386**	2.50740	0.30000	**0.10647**
	A2	0.01860	0.00100	**0.01667**	0.32940	0.06480	**0.02408**	2.50740	0.30000	**0.10790**
	B1	0.01860	0.00100	**0.01165**	0.32940	0.06480	**0.02195**	2.50740	0.30000	**0.10512**

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	**0.02443**	0.32940	0.12960	**0.03501**	2.50740	0.60000	**0.13070**
	B1	(!A1 * A2)	0.01860	0.00100	**0.02082**	0.32940	0.12960	**0.03092**	2.50740	0.60000	**0.12775**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.01567**	0.32940	0.06480	**0.02614**	2.50740	0.30000	**0.11416**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01267**	0.32940	0.06480	**0.02291**	2.50740	0.30000	**0.11192**

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	**0.02340**	0.32940	0.12960	**0.03031**	2.50740	0.60000	**0.12384**
	B1	(!A1 * A2)	0.01860	0.00100	**0.02245**	0.32940	0.12960	**0.03063**	2.50740	0.60000	**0.12295**
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.01211**	0.32940	0.06480	**0.02168**	2.50740	0.30000	**0.10472**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01165**	0.32940	0.06480	**0.02195**	2.50740	0.30000	**0.10512**

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	**0.00000**	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_a21o_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_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_a21o_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_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_a21o_2	**(A1 * B1)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	**(A1 * B1)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!A1 * B1)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_a21o_1	**(A1 * B1)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!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	**-0.00052**	0.32940	**-0.00054**	2.50740	**-0.00055**
sg13g2_a21o_1	0.01860	**-0.00074**	0.32940	**-0.00076**	2.50740	**-0.00077**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_2	0.01860	**0.00052**	0.32940	**0.00054**	2.50740	**0.00055**
sg13g2_a21o_1	0.01860	**0.00074**	0.32940	**0.00076**	2.50740	**0.00077**

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	**-0.00052**	0.32940	**-0.00054**	2.50740	**-0.00055**
sg13g2_a21o_1	**(A1 * A2)**	0.01860	**-0.00074**	0.32940	**-0.00076**	2.50740	**-0.00077**

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	**0.00052**	0.32940	**0.00054**	2.50740	**0.00055**
sg13g2_a21o_1	**(A1 * A2)**	0.01860	**0.00074**	0.32940	**0.00076**	2.50740	**0.00077**

BTLx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00660	0.01898	2.40000
sg13g2_ebufn_4	0.00337	0.01147	1.20000
sg13g2_ebufn_2	0.00300	0.00708	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	1242.29000	6703.58000	13150.90000
sg13g2_ebufn_4	985.81400	3586.25000	6679.77000
sg13g2_ebufn_2	819.87000	2120.06000	3500.29000

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	0.02074	**0.03584**	0.32940	0.53814	**0.27774**	2.50740	2.41974	**1.04982**
	TE_B->Z (RR)	0.01860	0.02074	**0.04033**	0.32940	0.53814	**0.10117**	2.50740	2.41974	**0.21653**
	TE_B->Z (FR)	0.01860	0.02074	**0.01878**	0.32940	0.53814	**0.25997**	2.50740	2.41974	**1.25850**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01100	**0.03647**	0.32940	0.26920	**0.27749**	2.50740	1.21000	**1.04596**
	TE_B->Z (RR)	0.01860	0.01100	**0.03069**	0.32940	0.26920	**0.07427**	2.50740	1.21000	**0.14688**
	TE_B->Z (FR)	0.01860	0.01100	**0.01816**	0.32940	0.26920	**0.25811**	2.50740	1.21000	**1.25520**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00608	**0.03161**	0.32940	0.13468	**0.25417**	2.50740	0.60508	**1.00131**
	TE_B->Z (RR)	0.01860	0.00608	**0.02657**	0.32940	0.13468	**0.06021**	2.50740	0.60508	**0.12152**
	TE_B->Z (FR)	0.01860	0.00608	**0.01821**	0.32940	0.13468	**0.25454**	2.50740	0.60508	**1.24234**

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	0.02981	**0.04350**	0.32940	0.54721	**0.24831**	2.50740	2.42881	**0.89530**
	TE_B->Z (RF)	0.01860	0.02981	**0.01806**	0.32940	0.54721	**-0.22209**	2.50740	2.42881	**-1.90773**
	TE_B->Z (FF)	0.01860	0.02981	**0.04008**	0.32940	0.54721	**0.20111**	2.50740	2.42881	**0.65233**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01560	**0.04441**	0.32940	0.27380	**0.24925**	2.50740	1.21460	**0.89616**
	TE_B->Z (RF)	0.01860	0.01560	**0.01516**	0.32940	0.27380	**-0.22101**	2.50740	1.21460	**-1.90732**
	TE_B->Z (FF)	0.01860	0.01560	**0.03093**	0.32940	0.27380	**0.17036**	2.50740	1.21460	**0.58375**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00844	**0.03439**	0.32940	0.13704	**0.22125**	2.50740	0.60744	**0.83227**
	TE_B->Z (RF)	0.01860	0.00844	**0.00764**	0.32940	0.13704	**-0.23030**	2.50740	0.60744	**-1.91636**
	TE_B->Z (FF)	0.01860	0.00844	**0.02684**	0.32940	0.13704	**0.14996**	2.50740	0.60744	**0.53426**

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	0.02074	**0.08031**	0.32940	0.53814	**0.09109**	2.50740	2.41974	**0.10907**
	TE_B	0.01860	0.02074	**0.01762**	0.32940	0.53814	**0.01426**	2.50740	2.41974	**0.00895**
sg13g2_ebufn_4	A	0.01860	0.01100	**0.04028**	0.32940	0.26920	**0.04470**	2.50740	1.21000	**0.05264**
	TE_B	0.01860	0.01100	**0.00920**	0.32940	0.26920	**0.00757**	2.50740	1.21000	**0.00524**
sg13g2_ebufn_2	A	0.01860	0.00608	**0.02139**	0.32940	0.13468	**0.02276**	2.50740	0.60508	**0.02527**
	TE_B	0.01860	0.00608	**0.00507**	0.32940	0.13468	**0.00408**	2.50740	0.60508	**0.00416**

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	0.02981	**0.07647**	0.32940	0.54721	**0.07227**	2.50740	2.42881	**0.06854**
	TE_B	0.01860	0.02981	**0.00763**	0.32940	0.54721	**0.00481**	2.50740	2.42881	**0.01029**
sg13g2_ebufn_4	A	0.01860	0.01560	**0.03838**	0.32940	0.27380	**0.03622**	2.50740	1.21460	**0.03388**
	TE_B	0.01860	0.01560	**0.00424**	0.32940	0.27380	**0.00329**	2.50740	1.21460	**0.00788**
sg13g2_ebufn_2	A	0.01860	0.00844	**0.01813**	0.32940	0.13704	**0.01808**	2.50740	0.60744	**0.01934**
	TE_B	0.01860	0.00844	**0.00255**	0.32940	0.13704	**0.00181**	2.50740	0.60744	**0.00232**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01142**	0.32940	**0.03748**	2.50740	**0.27099**
sg13g2_ebufn_4	0.01860	**0.00638**	0.32940	**0.01928**	2.50740	**0.13582**
sg13g2_ebufn_2	0.01860	**0.00336**	0.32940	**0.01542**	2.50740	**0.11837**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01419**	0.32940	**0.04129**	2.50740	**0.27171**
sg13g2_ebufn_4	0.01860	**0.00766**	0.32940	**0.02105**	2.50740	**0.13616**
sg13g2_ebufn_2	0.01860	**0.00485**	0.32940	**0.01721**	2.50740	**0.11853**

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	**-0.00659**	0.32940	**0.00196**	2.50740	**0.11349**
sg13g2_ebufn_4	0.01860	**-0.00263**	0.32940	**0.00825**	2.50740	**0.12343**
sg13g2_ebufn_2	0.01860	**-0.00109**	0.32940	**0.00981**	2.50740	**0.11201**

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	**0.09748**	0.32940	**0.11046**	2.50740	**0.22163**
sg13g2_ebufn_4	0.01860	**0.05007**	0.32940	**0.06383**	2.50740	**0.17774**
sg13g2_ebufn_2	0.01860	**0.02609**	0.32940	**0.03866**	2.50740	**0.13917**

BUx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.01953	4.80000
sg13g2_buf_8	0.00979	2.40000
sg13g2_buf_4	0.00423	1.20000
sg13g2_buf_2	0.00298	0.60000
sg13g2_buf_1	0.00265	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	7714.47000	10319.30000	12924.20000
sg13g2_buf_8	3857.26000	5159.68000	6462.10000
sg13g2_buf_4	1614.29000	2412.18000	3210.06000
sg13g2_buf_2	1028.62000	1336.10000	1643.58000
sg13g2_buf_1	711.89000	797.55300	883.21600

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	**0.02986**	0.32940	1.03680	**0.17586**	2.50740	4.80000	**0.62555**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.02945**	0.32940	0.51840	**0.17457**	2.50740	2.40000	**0.62345**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.03673**	0.32940	0.25920	**0.20085**	2.50740	1.20000	**0.74894**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.02917**	0.32940	0.12960	**0.17090**	2.50740	0.60000	**0.61947**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.02601**	0.32940	0.06480	**0.15498**	2.50740	0.30000	**0.58344**

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	**0.03259**	0.32940	1.03680	**0.17141**	2.50740	4.80000	**0.58707**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.03210**	0.32940	0.51840	**0.17055**	2.50740	2.40000	**0.58698**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.03170**	0.32940	0.25920	**0.16165**	2.50740	1.20000	**0.49471**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.03096**	0.32940	0.12960	**0.16237**	2.50740	0.60000	**0.55913**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.02728**	0.32940	0.06480	**0.14633**	2.50740	0.30000	**0.53220**

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	**0.15452**	0.32940	1.03680	**0.23034**	2.50740	4.80000	**0.93904**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.07592**	0.32940	0.51840	**0.11249**	2.50740	2.40000	**0.47358**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.03853**	0.32940	0.25920	**0.05266**	2.50740	1.20000	**0.19776**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01940**	0.32940	0.12960	**0.03049**	2.50740	0.60000	**0.13179**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.01099**	0.32940	0.06480	**0.02077**	2.50740	0.30000	**0.10728**

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	**0.15387**	0.32940	1.03680	**0.23686**	2.50740	4.80000	**0.92576**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.07551**	0.32940	0.51840	**0.11620**	2.50740	2.40000	**0.46059**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.03783**	0.32940	0.25920	**0.05282**	2.50740	1.20000	**0.19761**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01927**	0.32940	0.12960	**0.03049**	2.50740	0.60000	**0.13012**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.01088**	0.32940	0.06480	**0.02113**	2.50740	0.30000	**0.10560**

DECAPx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, Temp -40.00

Footprint

Cell Name	Area
sg13g2_decap_4	7.25760
sg13g2_decap_8	12.70080

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_decap_4	5984.39000	5984.39000	5984.39000
sg13g2_decap_8	11968.80000	11968.80000	11968.80000

DFFRRx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00180	0.00655	0.00324	0.60000	0.60000
sg13g2_dfrbp_1	0.00192	0.00711	0.00314	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	4783.36000	5625.53000	6222.85000
sg13g2_dfrbp_1	3675.26000	4489.18000	5112.30000

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	**0.11248**	0.32940	0.12960	**0.24522**	2.50740	0.60000	**0.65740**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.09166**	0.32940	0.06480	**0.22437**	2.50740	0.30000	**0.60537**

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	**0.10133**	0.32940	0.12960	**0.22279**	2.50740	0.60000	**0.56420**
	RESET_B->Q (FF)	0.01860	0.00100	**0.13357**	0.32940	0.12960	**0.28810**	2.50740	0.60000	**0.76946**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.08931**	0.32940	0.06480	**0.20974**	2.50740	0.30000	**0.52893**
	RESET_B->Q (FF)	0.01860	0.00100	**0.11665**	0.32940	0.06480	**0.26917**	2.50740	0.30000	**0.74360**

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	**0.06860**	0.32940	0.12960	**0.21949**	2.50740	0.60000	**0.60544**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10137**	0.32940	0.12960	**0.28383**	2.50740	0.60000	**0.81039**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.06896**	0.32940	0.06480	**0.21387**	2.50740	0.30000	**0.57845**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.09650**	0.32940	0.06480	**0.27242**	2.50740	0.30000	**0.79278**

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	**0.07450**	0.32940	0.12960	**0.22784**	2.50740	0.60000	**0.59797**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.06997**	0.32940	0.06480	**0.21238**	2.50740	0.30000	**0.55562**

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	**-0.02445**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.15053**
	setup	**CLK (R)**	0.01860	0.01860	**0.05624**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.18299**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**-0.11873**	2.50740	2.50740	**-0.17119**
	setup	**CLK (R)**	0.01860	0.01860	**0.05135**	1.26300	1.26300	**0.15381**	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_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01223**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.17709**
	setup	**CLK (R)**	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.22727**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01223**	1.26300	1.26300	**-0.09984**	2.50740	2.50740	**-0.15053**
	setup	**CLK (R)**	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.16460**	2.50740	2.50740	**0.24793**

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	**0.05868**	1.26300	1.26300	**0.18889**	2.50740	2.50740	**0.30696**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.29811**
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.05624**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.34238**
	removal	**CLK (R)**	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.31582**

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	**0.08413**	0.32940	0.12960	**0.26763**	2.50740	0.60000	**1.04245**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.06227**	0.32940	0.06480	**0.16197**	2.50740	0.30000	**0.60851**

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	**0.08131**	0.32940	0.12960	**0.26871**	2.50740	0.60000	**1.04491**
	RESET_B	0.01860	0.00100	**0.06421**	0.32940	0.12960	**0.24399**	2.50740	0.60000	**0.94235**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.06061**	0.32940	0.06480	**0.16097**	2.50740	0.30000	**0.60518**
	RESET_B	0.01860	0.00100	**0.04270**	0.32940	0.06480	**0.13716**	2.50740	0.30000	**0.51140**

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	**0.08139**	0.32940	0.12960	**0.26886**	2.50740	0.60000	**1.04061**
	RESET_B	0.01860	0.00100	**0.06419**	0.32940	0.12960	**0.24486**	2.50740	0.60000	**0.93772**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.06062**	0.32940	0.06480	**0.16119**	2.50740	0.30000	**0.60234**
	RESET_B	0.01860	0.00100	**0.04266**	0.32940	0.06480	**0.13863**	2.50740	0.30000	**0.50911**

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	**0.08418**	0.32940	0.12960	**0.26687**	2.50740	0.60000	**1.04580**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.06232**	0.32940	0.06480	**0.16156**	2.50740	0.30000	**0.61145**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00164**	0.32940	**0.00710**	2.50740	**0.05331**
sg13g2_dfrbp_1	0.01860	**0.00187**	0.32940	**0.00724**	2.50740	**0.05337**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00206**	0.32940	**0.00767**	2.50740	**0.05412**
sg13g2_dfrbp_1	0.01860	**0.00233**	0.32940	**0.00788**	2.50740	**0.05424**

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	**0.00164**	0.32940	**0.00710**	2.50740	**0.05331**
	(!CLK * RESET_B)	0.01860	**0.02225**	0.32940	**0.02833**	2.50740	**0.08465**
	(!CLK * !RESET_B)	0.01860	**-0.00007**	0.32940	**-0.00008**	2.50740	**-0.00008**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00187**	0.32940	**0.00724**	2.50740	**0.05337**
	(!CLK * RESET_B)	0.01860	**0.01925**	0.32940	**0.02543**	2.50740	**0.08129**
	(!CLK * !RESET_B)	0.01860	**0.00015**	0.32940	**0.00014**	2.50740	**0.00015**

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	**0.00206**	0.32940	**0.00767**	2.50740	**0.05412**
	(!CLK * RESET_B)	0.01860	**0.01834**	0.32940	**0.02476**	2.50740	**0.08146**
	(!CLK * !RESET_B)	0.01860	**0.00023**	0.32940	**0.00025**	2.50740	**0.00026**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00233**	0.32940	**0.00788**	2.50740	**0.05424**
	(!CLK * RESET_B)	0.01860	**0.01733**	0.32940	**0.02380**	2.50740	**0.07985**
	(!CLK * !RESET_B)	0.01860	**0.00006**	0.32940	**0.00008**	2.50740	**0.00008**

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	**0.02493**	0.32940	**0.03166**	2.50740	**0.10662**
sg13g2_dfrbp_1	0.01860	**0.00486**	0.32940	**0.00939**	2.50740	**0.05623**

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	**0.01605**	0.32940	**0.02305**	2.50740	**0.09794**
sg13g2_dfrbp_1	0.01860	**0.01440**	0.32940	**0.02148**	2.50740	**0.09604**

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	**0.00408**	0.32940	**0.00873**	2.50740	**0.05565**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02493**	0.32940	**0.03166**	2.50740	**0.10662**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00486**	0.32940	**0.00939**	2.50740	**0.05623**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00018**	0.32940	**0.00011**	2.50740	**0.00012**
	(!CLK * D * !Q * Q_N)	0.01860	**0.02251**	0.32940	**0.02943**	2.50740	**0.10397**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00028**	0.32940	**0.00022**	2.50740	**0.00022**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.07923**	0.32940	**0.09514**	2.50740	**0.22340**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01605**	0.32940	**0.02305**	2.50740	**0.09794**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.05545**	0.32940	**0.07119**	2.50740	**0.19693**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00018**	0.32940	**-0.00011**	2.50740	**-0.00012**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01440**	0.32940	**0.02148**	2.50740	**0.09604**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00028**	0.32940	**-0.00022**	2.50740	**-0.00022**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01860**	0.32940	**0.03243**	2.50740	**0.15817**
sg13g2_dfrbp_1	0.01860	**0.01887**	0.32940	**0.03125**	2.50740	**0.14836**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.03836**	0.32940	**0.05298**	2.50740	**0.18151**
sg13g2_dfrbp_1	0.01860	**0.03647**	0.32940	**0.05013**	2.50740	**0.17108**

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	**0.01860**	0.32940	**0.03243**	2.50740	**0.15817**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01966**	0.32940	**0.03343**	2.50740	**0.15905**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01824**	0.32940	**0.03203**	2.50740	**0.15773**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01971**	0.32940	**0.03347**	2.50740	**0.15908**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01939**	0.32940	**0.03188**	2.50740	**0.14897**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01884**	0.32940	**0.03122**	2.50740	**0.14834**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01841**	0.32940	**0.03083**	2.50740	**0.14798**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01887**	0.32940	**0.03125**	2.50740	**0.14836**

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	**0.03836**	0.32940	**0.05298**	2.50740	**0.18151**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.04005**	0.32940	**0.05466**	2.50740	**0.18313**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.02017**	0.32940	**0.03422**	2.50740	**0.15784**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.01633**	0.32940	**0.11171**	2.50740	**0.23512**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.02011**	0.32940	**0.03427**	2.50740	**0.15785**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.02017**	0.32940	**0.03421**	2.50740	**0.15782**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.03647**	0.32940	**0.05013**	2.50740	**0.17108**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.03735**	0.32940	**0.05103**	2.50740	**0.17197**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.02080**	0.32940	**0.03389**	2.50740	**0.14994**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.01533**	0.32940	**0.09047**	2.50740	**0.20652**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.02076**	0.32940	**0.03390**	2.50740	**0.14997**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.02079**	0.32940	**0.03388**	2.50740	**0.14992**

DLHQ

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00261	0.00269	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	2628.78000	3037.36000	3638.71000

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	**0.08375**	0.32940	0.06480	**0.20991**	2.50740	0.30000	**0.59161**
	GATE->Q (RR)	0.01860	0.00100	**0.07170**	0.32940	0.06480	**0.19646**	2.50740	0.30000	**0.52125**

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	**0.07594**	0.32940	0.06480	**0.19139**	2.50740	0.30000	**0.52507**
	GATE->Q (RF)	0.01860	0.00100	**0.07782**	0.32940	0.06480	**0.18884**	2.50740	0.30000	**0.45708**

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	**-0.04401**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.05313**
	setup	GATE (F)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.11063**	2.50740	2.50740	**0.12987**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**0.03238**	2.50740	2.50740	**0.07969**
	setup	GATE (F)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**-0.02698**	2.50740	2.50740	**-0.07379**

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	**0.03126**	0.32940	0.06480	**0.03209**	2.50740	0.30000	**0.03837**
	GATE	0.01860	0.00100	**0.02784**	0.32940	0.06480	**0.02966**	2.50740	0.30000	**0.03873**

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	**0.03092**	0.32940	0.06480	**0.03191**	2.50740	0.30000	**0.03746**
	GATE	0.01860	0.00100	**0.02983**	0.32940	0.06480	**0.03133**	2.50740	0.30000	**0.03132**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00503**	0.32940	**0.01478**	2.50740	**0.10091**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00676**	0.32940	**0.01673**	2.50740	**0.10159**

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	**0.00495**	0.32940	**0.01465**	2.50740	**0.10077**
	(!GATE * !Q)	0.01860	**0.00503**	0.32940	**0.01478**	2.50740	**0.10091**

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	**0.00663**	0.32940	**0.01668**	2.50740	**0.10154**
	(!GATE * !Q)	0.01860	**0.00676**	0.32940	**0.01673**	2.50740	**0.10159**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.01295**	0.32940	**0.02516**	2.50740	**0.13192**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.01576**	0.32940	**0.04192**	2.50740	**0.14916**

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	**0.01295**	0.32940	**0.02516**	2.50740	**0.13192**

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	**0.01576**	0.32940	**0.04192**	2.50740	**0.14916**

DLHRQ

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00246	0.00334	0.00259	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	2977.27000	3583.85000	4046.29000

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	**0.08970**	0.32940	0.06480	**0.21824**	2.50740	0.30000	**0.59609**
	GATE->Q (RR)	0.01860	0.00100	**0.08100**	0.32940	0.06480	**0.20905**	2.50740	0.30000	**0.53420**

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	**0.08002**	0.32940	0.06480	**0.19723**	2.50740	0.30000	**0.53747**
	GATE->Q (RF)	0.01860	0.00100	**0.08286**	0.32940	0.06480	**0.19743**	2.50740	0.30000	**0.47421**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03300**	0.32940	0.06480	**0.16631**	2.50740	0.30000	**0.57832**

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	**-0.03912**	1.26300	1.26300	**-0.05936**	2.50740	2.50740	**-0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.09714**	2.50740	2.50740	**0.11511**

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	**-0.01956**	1.26300	1.26300	**0.03238**	2.50740	2.50740	**0.07674**
	setup	GATE (F)	0.01860	0.01860	**0.02690**	1.26300	1.26300	**-0.02429**	2.50740	2.50740	**-0.07084**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.00734**	1.26300	1.26300	**-0.09444**	2.50740	2.50740	**-0.15938**
	removal	GATE (F)	0.01860	0.01860	**0.01467**	1.26300	1.26300	**0.10794**	2.50740	2.50740	**0.17709**

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	**0.00494**	0.32940	0.06480	**0.00448**	2.50740	0.30000	**0.00728**
	GATE	0.01860	0.00100	**0.02821**	0.32940	0.06480	**0.02934**	2.50740	0.30000	**0.03878**

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	**0.00576**	0.32940	0.06480	**-0.00448**	2.50740	0.30000	**-0.00728**
	GATE	0.01860	0.00100	**0.02812**	0.32940	0.06480	**0.02977**	2.50740	0.30000	**0.02943**
	RESET_B	0.01860	0.00100	**0.01479**	0.32940	0.06480	**0.02664**	2.50740	0.30000	**0.12488**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.03151**	0.32940	**0.04201**	2.50740	**0.13187**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.02949**	0.32940	**0.05770**	2.50740	**0.14745**

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	**0.00023**	0.32940	**0.00999**	2.50740	**0.09608**
	!RESET_B	0.01860	**0.03151**	0.32940	**0.04201**	2.50740	**0.13187**

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	**0.00218**	0.32940	**0.01225**	2.50740	**0.09703**
	!RESET_B	0.01860	**0.02949**	0.32940	**0.05770**	2.50740	**0.14745**

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	**0.01361**	0.32940	**0.02560**	2.50740	**0.13183**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01576**	0.32940	**0.04220**	2.50740	**0.14893**

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	**0.01942**	0.32940	**0.03214**	2.50740	**0.14634**
	(!D * !RESET_B * !Q)	0.01860	**0.01361**	0.32940	**0.02560**	2.50740	**0.13183**

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	**0.02321**	0.32940	**0.03698**	2.50740	**0.15025**
	(!D * RESET_B * !Q)	0.01860	**0.01576**	0.32940	**0.04220**	2.50740	**0.14893**
	(!D * !RESET_B * !Q)	0.01860	**0.01580**	0.32940	**0.04224**	2.50740	**0.14897**

DLHR

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00241	0.00352	0.00265	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	3709.29000	4395.13000	4779.32000

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	**0.09726**	0.32940	0.06480	**0.22935**	2.50740	0.30000	**0.60827**
	GATE->Q (RR)	0.01860	0.00100	**0.08878**	0.32940	0.06480	**0.22108**	2.50740	0.30000	**0.54815**

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	**0.08290**	0.32940	0.06480	**0.20114**	2.50740	0.30000	**0.53732**
	GATE->Q (RF)	0.01860	0.00100	**0.08583**	0.32940	0.06480	**0.20184**	2.50740	0.30000	**0.47591**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03570**	0.32940	0.06480	**0.17508**	2.50740	0.30000	**0.58079**

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	**0.10073**	0.32940	0.06480	**0.22482**	2.50740	0.30000	**0.60699**
	GATE->Q_N (RR)	0.01860	0.00100	**0.10378**	0.32940	0.06480	**0.22531**	2.50740	0.30000	**0.54579**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.05353**	0.32940	0.06480	**0.19291**	2.50740	0.30000	**0.59182**

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	**0.11756**	0.32940	0.06480	**0.22833**	2.50740	0.30000	**0.56073**
	GATE->Q_N (RF)	0.01860	0.00100	**0.10899**	0.32940	0.06480	**0.22000**	2.50740	0.30000	**0.50028**

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	**-0.04401**	1.26300	1.26300	**-0.06206**	2.50740	2.50740	**-0.04722**
	setup	GATE (F)	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.10254**	2.50740	2.50740	**0.12101**

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	**-0.02201**	1.26300	1.26300	**0.03238**	2.50740	2.50740	**0.07674**
	setup	GATE (F)	0.01860	0.01860	**0.02690**	1.26300	1.26300	**-0.02429**	2.50740	2.50740	**-0.07084**

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	**-0.05936**	2.50740	2.50740	**-0.10626**
	removal	GATE (F)	0.01860	0.01860	**0.00978**	1.26300	1.26300	**0.07555**	2.50740	2.50740	**0.12692**

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	**0.01097**	0.32940	0.06480	**0.01107**	2.50740	0.30000	**0.01361**
	GATE	0.01860	0.00100	**0.02238**	0.32940	0.06480	**0.02317**	2.50740	0.30000	**0.02866**

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	**0.01081**	0.32940	0.06480	**0.00237**	2.50740	0.30000	**0.00481**
	GATE	0.01860	0.00100	**0.02218**	0.32940	0.06480	**0.02281**	2.50740	0.30000	**0.02455**
	RESET_B	0.01860	0.00100	**0.01526**	0.32940	0.06480	**0.02206**	2.50740	0.30000	**0.07869**

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	**0.01085**	0.32940	0.06480	**0.00261**	2.50740	0.30000	**0.00290**
	GATE	0.01860	0.00100	**0.02876**	0.32940	0.06480	**0.03575**	2.50740	0.30000	**0.08983**
	RESET_B	0.01860	0.00100	**0.01529**	0.32940	0.06480	**0.02263**	2.50740	0.30000	**0.08031**

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	**0.01097**	0.32940	0.06480	**0.01094**	2.50740	0.30000	**0.01331**
	GATE	0.01860	0.00100	**0.02239**	0.32940	0.06480	**0.02293**	2.50740	0.30000	**0.02928**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.03084**	0.32940	**0.04150**	2.50740	**0.13161**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.02964**	0.32940	**0.05748**	2.50740	**0.14754**

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	**0.00169**	0.32940	**0.01161**	2.50740	**0.09805**
	!RESET_B	0.01860	**0.03084**	0.32940	**0.04150**	2.50740	**0.13161**

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	**0.00354**	0.32940	**0.01372**	2.50740	**0.09886**
	!RESET_B	0.01860	**0.02964**	0.32940	**0.05748**	2.50740	**0.14754**

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	**0.00000**	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_dlhr_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_dlhr_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_dlhr_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_dlhr_1	0.01860	**0.01312**	0.32940	**0.02527**	2.50740	**0.13195**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01637**	0.32940	**0.04186**	2.50740	**0.14916**

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	**0.01892**	0.32940	**0.03175**	2.50740	**0.14632**
	(!D * !RESET_B * !Q)	0.01860	**0.01312**	0.32940	**0.02527**	2.50740	**0.13195**

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	**0.02377**	0.32940	**0.03761**	2.50740	**0.15128**
	(!D * RESET_B * !Q)	0.01860	**0.01637**	0.32940	**0.04186**	2.50740	**0.14916**
	(!D * !RESET_B * !Q)	0.01860	**0.01641**	0.32940	**0.04190**	2.50740	**0.14920**

DLLRQ

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00237	0.00336	0.00254	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	2977.19000	3585.19000	4046.29000

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	**0.08904**	0.32940	0.06480	**0.21706**	2.50740	0.30000	**0.59387**
	GATE_N->Q (FR)	0.01860	0.00100	**0.09841**	0.32940	0.06480	**0.24140**	2.50740	0.30000	**0.69545**
	RESET_B->Q (RR)	0.01860	0.00100	**0.04090**	0.32940	0.06480	**0.17240**	2.50740	0.30000	**0.61148**

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	**0.07938**	0.32940	0.06480	**0.19565**	2.50740	0.30000	**0.53336**
	GATE_N->Q (FF)	0.01860	0.00100	**0.07543**	0.32940	0.06480	**0.20894**	2.50740	0.30000	**0.62788**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03322**	0.32940	0.06480	**0.16578**	2.50740	0.30000	**0.57864**

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	**-0.03179**	1.26300	1.26300	**-0.05667**	2.50740	2.50740	**-0.08855**
	setup	GATE_N (R)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**0.06206**	2.50740	2.50740	**0.09445**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	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	**-0.03912**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.21251**
	setup	GATE_N (R)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.18889**	2.50740	2.50740	**0.29220**

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	**-0.01467**	1.26300	1.26300	**-0.02159**	2.50740	2.50740	**0.00295**
	removal	GATE_N (R)	0.01860	0.01860	**0.02201**	1.26300	1.26300	**0.02968**	2.50740	2.50740	**0.00885**

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	**0.01526**	0.32940	0.06480	**0.01635**	2.50740	0.30000	**0.02290**
	GATE_N	0.01860	0.00100	**0.02715**	0.32940	0.06480	**0.01414**	2.50740	0.30000	**0.01415**
	RESET_B	0.01860	0.00100	**0.01940**	0.32940	0.06480	**0.02855**	2.50740	0.30000	**0.12978**

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	**0.02206**	0.32940	0.06480	**0.00143**	2.50740	0.30000	**0.00241**
	GATE_N	0.01860	0.00100	**0.02465**	0.32940	0.06480	**0.01276**	2.50740	0.30000	**0.02037**
	RESET_B	0.01860	0.00100	**0.01498**	0.32940	0.06480	**0.02674**	2.50740	0.30000	**0.12635**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.02101**	0.32940	**0.03028**	2.50740	**0.11658**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01336**	0.32940	**0.04510**	2.50740	**0.13520**

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	**0.00003**	0.32940	**0.00990**	2.50740	**0.09631**
	!RESET_B	0.01860	**0.02101**	0.32940	**0.03028**	2.50740	**0.11658**

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	**0.00214**	0.32940	**0.01228**	2.50740	**0.09743**
	!RESET_B	0.01860	**0.01336**	0.32940	**0.04510**	2.50740	**0.13520**

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	**0.01220**	0.32940	**0.02440**	2.50740	**0.13092**

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	**0.01604**	0.32940	**0.04228**	2.50740	**0.14947**

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	**0.02274**	0.32940	**0.03473**	2.50740	**0.14044**
	(!D * !RESET_B * !Q)	0.01860	**0.01220**	0.32940	**0.02440**	2.50740	**0.13092**

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	**0.02342**	0.32940	**0.03624**	2.50740	**0.14199**
	(!D * RESET_B * !Q)	0.01860	**0.01604**	0.32940	**0.04228**	2.50740	**0.14947**
	(!D * !RESET_B * !Q)	0.01860	**0.01608**	0.32940	**0.04233**	2.50740	**0.14951**

DLLR

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00248	0.00348	0.00267	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	3709.89000	4417.04000	4779.26000

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	**0.09782**	0.32940	0.06480	**0.22950**	2.50740	0.30000	**0.60694**
	GATE_N->Q (FR)	0.01860	0.00100	**0.10728**	0.32940	0.06480	**0.25467**	2.50740	0.30000	**0.70912**

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	**0.08387**	0.32940	0.06480	**0.20199**	2.50740	0.30000	**0.53967**
	GATE_N->Q (FF)	0.01860	0.00100	**0.08033**	0.32940	0.06480	**0.21680**	2.50740	0.30000	**0.63748**
	RESET_B->Q (FF)	0.01860	0.00100	**0.03558**	0.32940	0.06480	**0.17635**	2.50740	0.30000	**0.53178**

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	**0.10157**	0.32940	0.06480	**0.22523**	2.50740	0.30000	**0.60844**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.09809**	0.32940	0.06480	**0.24066**	2.50740	0.30000	**0.70570**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.05367**	0.32940	0.06480	**0.19438**	2.50740	0.30000	**0.59332**

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	**0.11793**	0.32940	0.06480	**0.22845**	2.50740	0.30000	**0.55981**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.12730**	0.32940	0.06480	**0.25352**	2.50740	0.30000	**0.66160**

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	**-0.03668**	1.26300	1.26300	**-0.05936**	2.50740	2.50740	**-0.09150**
	setup	GATE_N (R)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.06746**	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_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.14571**	2.50740	2.50740	**-0.21251**
	setup	GATE_N (R)	0.01860	0.01860	**0.04890**	1.26300	1.26300	**0.19158**	2.50740	2.50740	**0.29220**

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	**-0.00978**	1.26300	1.26300	**0.01349**	2.50740	2.50740	**0.05903**
	removal	GATE_N (R)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**-0.00270**	2.50740	2.50740	**-0.04427**

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	**0.02215**	0.32940	0.06480	**0.10959**	2.50740	0.30000	**0.43208**
	GATE_N	0.01860	0.00100	**0.04550**	0.32940	0.06480	**0.13286**	2.50740	0.30000	**0.45435**

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	**0.02390**	0.32940	0.06480	**0.08798**	2.50740	0.30000	**0.41339**
	GATE_N	0.01860	0.00100	**0.04191**	0.32940	0.06480	**0.13065**	2.50740	0.30000	**0.46138**
	RESET_B	0.01860	0.00100	**0.04708**	0.32940	0.06480	**0.14565**	2.50740	0.30000	**0.55038**

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	**0.02400**	0.32940	0.06480	**0.08845**	2.50740	0.30000	**0.41019**
	GATE_N	0.01860	0.00100	**0.05808**	0.32940	0.06480	**0.16045**	2.50740	0.30000	**0.59600**
	RESET_B	0.01860	0.00100	**0.04714**	0.32940	0.06480	**0.14671**	2.50740	0.30000	**0.54933**

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	**0.02216**	0.32940	0.06480	**0.10931**	2.50740	0.30000	**0.43336**
	GATE_N	0.01860	0.00100	**0.04553**	0.32940	0.06480	**0.13273**	2.50740	0.30000	**0.45658**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.03274**	0.32940	**0.04293**	2.50740	**0.13277**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.02849**	0.32940	**0.06220**	2.50740	**0.15198**

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	**0.00179**	0.32940	**0.01167**	2.50740	**0.09795**
	!RESET_B	0.01860	**0.03274**	0.32940	**0.04293**	2.50740	**0.13277**

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	**0.00445**	0.32940	**0.01461**	2.50740	**0.09960**
	!RESET_B	0.01860	**0.02849**	0.32940	**0.06220**	2.50740	**0.15198**

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	**0.00000**	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_dllr_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_dllr_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_dllr_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_dllr_1	0.01860	**0.00734**	0.32940	**0.03971**	2.50740	**0.14597**

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	**0.01612**	0.32940	**0.02896**	2.50740	**0.13601**

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	**0.02296**	0.32940	**0.03492**	2.50740	**0.14036**
	(!D * RESET_B * !Q)	0.01860	**0.00734**	0.32940	**0.03971**	2.50740	**0.14597**
	(!D * !RESET_B * !Q)	0.01860	**0.00737**	0.32940	**0.03975**	2.50740	**0.14597**

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	**0.02375**	0.32940	**0.03653**	2.50740	**0.14210**
	(!D * !RESET_B * !Q)	0.01860	**0.01612**	0.32940	**0.02896**	2.50740	**0.13601**

DLY1

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00169	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	1089.91000	1219.16000	1348.41000

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	**0.05613**	0.32940	0.06480	**0.17369**	2.50740	0.30000	**0.45809**

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	**0.06444**	0.32940	0.06480	**0.20236**	2.50740	0.30000	**0.66217**

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	**0.02456**	0.32940	0.06480	**0.03144**	2.50740	0.30000	**0.09174**

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	**0.02341**	0.32940	0.06480	**0.03082**	2.50740	0.30000	**0.09079**

DLY2

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00169	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	1542.40000	1671.65000	1800.90000

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	**0.08588**	0.32940	0.06480	**0.21382**	2.50740	0.30000	**0.53028**

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	**0.09507**	0.32940	0.06480	**0.24682**	2.50740	0.30000	**0.72136**

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	**0.02988**	0.32940	0.06480	**0.03583**	2.50740	0.30000	**0.09301**

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	**0.02906**	0.32940	0.06480	**0.03527**	2.50740	0.30000	**0.09221**

DLY4

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00169	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	3719.07000	3848.29000	3977.51000

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	**0.18681**	0.32940	0.06480	**0.33613**	2.50740	0.30000	**0.71264**

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	**0.18930**	0.32940	0.06480	**0.36761**	2.50740	0.30000	**0.89135**

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	**0.04498**	0.32940	0.06480	**0.04835**	2.50740	0.30000	**0.10268**

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	**0.04467**	0.32940	0.06480	**0.04737**	2.50740	0.30000	**0.10117**

EINVINx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00824	0.01038	1.20000
sg13g2_einvn_2	0.00419	0.00553	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	4387.32000	5429.26000	6471.20000
sg13g2_einvn_2	2203.90000	2724.87000	3245.84000

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	0.01108	**0.01390**	0.32940	0.26928	**0.29503**	2.50740	1.21008	**1.59875**
	TE_B->Z (RR)	0.01860	0.01108	**0.02971**	0.32940	0.26928	**0.07376**	2.50740	1.21008	**0.15362**
	TE_B->Z (FR)	0.01860	0.01108	**0.01717**	0.32940	0.26928	**0.25530**	2.50740	1.21008	**1.24832**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00610	**0.01498**	0.32940	0.13470	**0.29453**	2.50740	0.60510	**1.59591**
	TE_B->Z (RR)	0.01860	0.00610	**0.02846**	0.32940	0.13470	**0.06826**	2.50740	0.60510	**0.13729**
	TE_B->Z (FR)	0.01860	0.00610	**0.01778**	0.32940	0.13470	**0.25518**	2.50740	0.60510	**1.24951**

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	0.01564	**0.01291**	0.32940	0.27384	**0.25707**	2.50740	1.21464	**1.40283**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00846	**0.01382**	0.32940	0.13706	**0.25692**	2.50740	0.60746	**1.40127**

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	0.01108	**0.02043**	0.32940	0.26928	**0.03683**	2.50740	1.21008	**0.19213**
	TE_B	0.01860	0.01108	**0.04273**	0.32940	0.26928	**0.03225**	2.50740	1.21008	**0.02847**
sg13g2_einvn_2	A	0.01860	0.00610	**0.01025**	0.32940	0.13470	**0.01813**	2.50740	0.60510	**0.09537**
	TE_B	0.01860	0.00610	**0.02095**	0.32940	0.13470	**0.01582**	2.50740	0.60510	**0.01478**

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	0.01564	**0.01868**	0.32940	0.27384	**0.03378**	2.50740	1.21464	**0.16940**
sg13g2_einvn_2	A	0.01860	0.00846	**0.00956**	0.32940	0.13706	**0.01696**	2.50740	0.60746	**0.08431**

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	**-0.01678**	0.32940	**-0.03949**	2.50740	**0.07555**
sg13g2_einvn_2	0.01860	**-0.00881**	0.32940	**-0.01869**	2.50740	**0.04601**

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	**0.01678**	0.32940	**0.03949**	2.50740	**0.15542**
sg13g2_einvn_2	0.01860	**0.00881**	0.32940	**0.02068**	2.50740	**0.08538**

GCLK

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00268	0.00563	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	3351.73000	3485.75000	3690.93000

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	**0.03629**	0.32940	0.06480	**0.16321**	2.50740	0.30000	**0.58825**

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	**0.03122**	0.32940	0.06480	**0.15934**	2.50740	0.30000	**0.57311**

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	**-0.01727**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.22729**
	setup	CLK (R)	0.01860	0.01860	**0.02903**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.38138**

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	**-0.00499**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**0.01144**
	setup	CLK (R)	0.01860	0.01860	**0.01944**	1.26300	1.26300	**0.03508**	2.50740	2.50740	**0.04020**

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	**0.02377**	0.32940	0.06480	**0.03194**	2.50740	0.30000	**0.11852**

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	**0.01584**	0.32940	0.06480	**0.02634**	2.50740	0.30000	**0.11282**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.03398**	0.32940	**0.04595**	2.50740	**0.13906**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.01738**	0.32940	**0.06315**	2.50740	**0.15509**

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	**0.03398**	0.32940	**0.04595**	2.50740	**0.13906**

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	**0.01738**	0.32940	**0.06315**	2.50740	**0.15509**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.00695**	0.32940	**0.01916**	2.50740	**0.12547**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_lgcp_1	0.01860	**0.01127**	0.32940	**0.02392**	2.50740	**0.13092**

INx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.05110	4.80000
sg13g2_inv_8	0.02499	2.40000
sg13g2_inv_4	0.01250	1.20000
sg13g2_inv_2	0.00627	0.60000
sg13g2_inv_1	0.00320	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	3337.24000	7505.02000	11672.80000
sg13g2_inv_8	1668.61000	3752.55000	5836.48000
sg13g2_inv_4	834.31700	1876.25000	2918.19000
sg13g2_inv_2	417.15800	938.11400	1459.07000
sg13g2_inv_1	208.57800	469.06300	729.54800

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	**0.00895**	0.32940	1.03680	**0.20628**	2.50740	4.80000	**1.13569**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.00884**	0.32940	0.51840	**0.20553**	2.50740	2.40000	**1.13345**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.00901**	0.32940	0.25920	**0.20526**	2.50740	1.20000	**1.13258**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.00978**	0.32940	0.12960	**0.20497**	2.50740	0.60000	**1.13196**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.01142**	0.32940	0.06480	**0.20504**	2.50740	0.30000	**1.13008**

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	**0.00873**	0.32940	1.03680	**0.19137**	2.50740	4.80000	**1.06058**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.00865**	0.32940	0.51840	**0.19136**	2.50740	2.40000	**1.06124**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.00878**	0.32940	0.25920	**0.19108**	2.50740	1.20000	**1.06071**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.00946**	0.32940	0.12960	**0.18985**	2.50740	0.60000	**1.05364**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01095**	0.32940	0.06480	**0.19005**	2.50740	0.30000	**1.05364**

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	**0.04740**	0.32940	1.03680	**0.14483**	2.50740	4.80000	**1.04310**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.02279**	0.32940	0.51840	**0.06993**	2.50740	2.40000	**0.51652**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.01132**	0.32940	0.25920	**0.03446**	2.50740	1.20000	**0.25647**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00563**	0.32940	0.12960	**0.01742**	2.50740	0.60000	**0.13054**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00302**	0.32940	0.06480	**0.00884**	2.50740	0.30000	**0.06500**

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	**0.03891**	0.32940	1.03680	**0.12693**	2.50740	4.80000	**0.96597**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01867**	0.32940	0.51840	**0.06212**	2.50740	2.40000	**0.47324**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00933**	0.32940	0.25920	**0.03079**	2.50740	1.20000	**0.23797**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00475**	0.32940	0.12960	**0.01551**	2.50740	0.60000	**0.11768**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00291**	0.32940	0.06480	**0.00823**	2.50740	0.30000	**0.05947**

ITL

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.01622	0.01751	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	8566.03000	10649.90000	12733.80000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (FR)	0.01860	0.02102	**0.01350**	0.32940	0.53842	**0.29633**	2.50740	2.42002	**1.60349**
	TE_B->Z (RR)	0.01860	0.02102	**0.03939**	0.32940	0.53842	**0.10068**	2.50740	2.42002	**0.21656**
	TE_B->Z (FR)	0.01860	0.02102	**0.01836**	0.32940	0.53842	**0.25769**	2.50740	2.42002	**1.25186**

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	0.03008	**0.01284**	0.32940	0.54748	**0.25866**	2.50740	2.42908	**1.40807**

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	0.02102	**0.04049**	0.32940	0.53842	**0.07586**	2.50740	2.42002	**0.39493**
	TE_B	0.01860	0.02102	**0.09275**	0.32940	0.53842	**0.06553**	2.50740	2.42002	**0.06038**

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	0.03008	**0.03640**	0.32940	0.54748	**0.06700**	2.50740	2.42908	**0.32896**

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	**-0.02252**	0.32940	**-0.05922**	2.50740	**0.01264**

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	**0.02252**	0.32940	**0.05922**	2.50740	**0.17288**

KEEPSTATE

sg13g2_stdcell_fast_1p65V_m40C Cell Library:
Process sg13g2_stdcell_fast_1p65V_m40C,
Voltage 1.65, 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	116.27500	1502.82000	2889.37000

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_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00231	0.00243	0.00586	0.60000
sg13g2_mux2_1	0.00233	0.00246	0.00587	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_2	2161.21000	2771.13000	3144.89000
sg13g2_mux2_1	1907.10000	2302.08000	2933.22000

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	**0.04272**	0.32940	0.12960	**0.19884**	2.50740	0.60000	**0.63419**
	A1->X (RR)	0.01860	0.00100	**0.02978**	0.32940	0.12960	**0.19966**	2.50740	0.60000	**0.63562**
	S->X (-R)	0.01860	0.00100	**0.04621**	0.32940	0.12960	**0.18924**	2.50740	0.60000	**0.61795**
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.03668**	0.32940	0.06480	**0.17783**	2.50740	0.30000	**0.58961**
	A1->X (RR)	0.01860	0.00100	**0.02953**	0.32940	0.06480	**0.17934**	2.50740	0.30000	**0.59280**
	S->X (-R)	0.01860	0.00100	**0.04015**	0.32940	0.06480	**0.17112**	2.50740	0.30000	**0.58136**

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	**0.03353**	0.32940	0.12960	**0.21939**	2.50740	0.60000	**0.72432**
	A1->X (FF)	0.01860	0.00100	**0.05566**	0.32940	0.12960	**0.22171**	2.50740	0.60000	**0.73247**
	S->X (-F)	0.01860	0.00100	**0.06074**	0.32940	0.12960	**0.20437**	2.50740	0.60000	**0.67659**
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.03353**	0.32940	0.06480	**0.19392**	2.50740	0.30000	**0.67607**
	A1->X (FF)	0.01860	0.00100	**0.04559**	0.32940	0.06480	**0.19632**	2.50740	0.30000	**0.68543**
	S->X (-F)	0.01860	0.00100	**0.05081**	0.32940	0.06480	**0.18216**	2.50740	0.30000	**0.63755**

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	**0.04621**	0.32940	0.12960	**0.18924**	2.50740	0.60000	**0.61795**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.06368**	0.32940	0.12960	**0.19867**	2.50740	0.60000	**0.58610**
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.04015**	0.32940	0.06480	**0.17112**	2.50740	0.30000	**0.58136**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.05751**	0.32940	0.06480	**0.18721**	2.50740	0.30000	**0.57155**

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	**0.06074**	0.32940	0.12960	**0.20437**	2.50740	0.60000	**0.67659**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.07619**	0.32940	0.12960	**0.20364**	2.50740	0.60000	**0.54448**
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.05081**	0.32940	0.06480	**0.18216**	2.50740	0.30000	**0.63755**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.06626**	0.32940	0.06480	**0.18701**	2.50740	0.30000	**0.52629**

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	**0.02922**	0.32940	0.12960	**0.03748**	2.50740	0.60000	**0.12356**
	A1	0.01860	0.00100	**0.03118**	0.32940	0.12960	**0.04797**	2.50740	0.60000	**0.13301**
	S	0.01860	0.00100	**0.03309**	0.32940	0.12960	**0.04110**	2.50740	0.60000	**0.13178**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01970**	0.32940	0.06480	**0.02882**	2.50740	0.30000	**0.11425**
	A1	0.01860	0.00100	**0.02061**	0.32940	0.06480	**0.03463**	2.50740	0.30000	**0.11988**
	S	0.01860	0.00100	**0.02387**	0.32940	0.06480	**0.03256**	2.50740	0.30000	**0.12400**

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	**0.03330**	0.32940	0.12960	**0.05054**	2.50740	0.60000	**0.13506**
	A1	0.01860	0.00100	**0.03124**	0.32940	0.12960	**0.03713**	2.50740	0.60000	**0.12494**
	S	0.01860	0.00100	**0.03053**	0.32940	0.12960	**0.03620**	2.50740	0.60000	**0.12901**
sg13g2_mux2_1	A0	0.01860	0.00100	**0.02105**	0.32940	0.06480	**0.03623**	2.50740	0.30000	**0.11900**
	A1	0.01860	0.00100	**0.01987**	0.32940	0.06480	**0.02933**	2.50740	0.30000	**0.11418**
	S	0.01860	0.00100	**0.01981**	0.32940	0.06480	**0.02839**	2.50740	0.30000	**0.11900**

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	**0.02917**	0.32940	0.12960	**0.02900**	2.50740	0.60000	**0.03510**
	S	(!A0 * A1)	0.01860	0.00100	**0.03309**	0.32940	0.12960	**0.04110**	2.50740	0.60000	**0.13178**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01991**	0.32940	0.06480	**0.02040**	2.50740	0.30000	**0.02547**
	S	(!A0 * A1)	0.01860	0.00100	**0.02387**	0.32940	0.06480	**0.03256**	2.50740	0.30000	**0.12400**

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	**0.03509**	0.32940	0.12960	**0.03296**	2.50740	0.60000	**0.04017**
	S	(!A0 * A1)	0.01860	0.00100	**0.03053**	0.32940	0.12960	**0.03620**	2.50740	0.60000	**0.12901**
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.02430**	0.32940	0.06480	**0.02495**	2.50740	0.30000	**0.02955**
	S	(!A0 * A1)	0.01860	0.00100	**0.01981**	0.32940	0.06480	**0.02839**	2.50740	0.30000	**0.11900**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00263**	0.32940	**0.01212**	2.50740	**0.09805**
sg13g2_mux2_1	0.01860	**0.00262**	0.32940	**0.01213**	2.50740	**0.09805**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_2	0.01860	**0.00686**	0.32940	**0.01673**	2.50740	**0.10150**
sg13g2_mux2_1	0.01860	**0.00685**	0.32940	**0.01674**	2.50740	**0.10149**

MUX4

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00322	0.00319	0.00321	0.00330	0.00926	0.00560	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	2333.78000	3933.01000	5424.72000

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	**0.06450**	0.32940	0.06480	**0.21480**	2.50740	0.30000	**0.69343**
	A1->X (RR)	0.01860	0.00100	**0.06359**	0.32940	0.06480	**0.21383**	2.50740	0.30000	**0.69265**
	A2->X (RR)	0.01860	0.00100	**0.06760**	0.32940	0.06480	**0.21937**	2.50740	0.30000	**0.70217**
	A3->X (RR)	0.01860	0.00100	**0.06571**	0.32940	0.06480	**0.21898**	2.50740	0.30000	**0.70129**
	S0->X (-R)	0.01860	0.00100	**0.05741**	0.32940	0.06480	**0.22141**	2.50740	0.30000	**0.70666**
	S1->X (-R)	0.01860	0.00100	**0.03472**	0.32940	0.06480	**0.17777**	2.50740	0.30000	**0.61698**

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	**0.07109**	0.32940	0.06480	**0.21350**	2.50740	0.30000	**0.65203**
	A1->X (FF)	0.01860	0.00100	**0.07137**	0.32940	0.06480	**0.21393**	2.50740	0.30000	**0.65533**
	A2->X (FF)	0.01860	0.00100	**0.07558**	0.32940	0.06480	**0.21975**	2.50740	0.30000	**0.66385**
	A3->X (FF)	0.01860	0.00100	**0.07523**	0.32940	0.06480	**0.21956**	2.50740	0.30000	**0.66359**
	S0->X (-F)	0.01860	0.00100	**0.06555**	0.32940	0.06480	**0.22537**	2.50740	0.30000	**0.69740**
	S1->X (-F)	0.01860	0.00100	**0.03978**	0.32940	0.06480	**0.17980**	2.50740	0.30000	**0.62957**

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	**0.05741**	0.32940	0.06480	**0.22141**	2.50740	0.30000	**0.70666**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.05455**	0.32940	0.06480	**0.21407**	2.50740	0.30000	**0.69184**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.08347**	0.32940	0.06480	**0.23201**	2.50740	0.30000	**0.65000**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.08150**	0.32940	0.06480	**0.22813**	2.50740	0.30000	**0.64437**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.03478**	0.32940	0.06480	**0.17775**	2.50740	0.30000	**0.61654**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.03472**	0.32940	0.06480	**0.17777**	2.50740	0.30000	**0.61698**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.04570**	0.32940	0.06480	**0.18275**	2.50740	0.30000	**0.58208**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.04563**	0.32940	0.06480	**0.18273**	2.50740	0.30000	**0.58209**

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	**0.06555**	0.32940	0.06480	**0.22537**	2.50740	0.30000	**0.69740**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.06056**	0.32940	0.06480	**0.21572**	2.50740	0.30000	**0.67821**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.08682**	0.32940	0.06480	**0.23026**	2.50740	0.30000	**0.61304**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.08286**	0.32940	0.06480	**0.22456**	2.50740	0.30000	**0.60541**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.03978**	0.32940	0.06480	**0.17980**	2.50740	0.30000	**0.62957**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.03969**	0.32940	0.06480	**0.17975**	2.50740	0.30000	**0.62878**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.04807**	0.32940	0.06480	**0.18090**	2.50740	0.30000	**0.54785**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.04816**	0.32940	0.06480	**0.18093**	2.50740	0.30000	**0.54788**

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	**0.02697**	0.32940	0.06480	**0.03278**	2.50740	0.30000	**0.11651**
	A1	0.01860	0.00100	**0.03712**	0.32940	0.06480	**0.04257**	2.50740	0.30000	**0.12688**
	A2	0.01860	0.00100	**0.03817**	0.32940	0.06480	**0.04363**	2.50740	0.30000	**0.12697**
	A3	0.01860	0.00100	**0.03746**	0.32940	0.06480	**0.04293**	2.50740	0.30000	**0.12646**
	S0	0.01860	0.00100	**0.02315**	0.32940	0.06480	**0.02997**	2.50740	0.30000	**0.10905**
	S1	0.01860	0.00100	**0.01556**	0.32940	0.06480	**0.02245**	2.50740	0.30000	**0.08834**

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	**0.03547**	0.32940	0.06480	**0.04117**	2.50740	0.30000	**0.12329**
	A1	0.01860	0.00100	**0.03855**	0.32940	0.06480	**0.04423**	2.50740	0.30000	**0.12892**
	A2	0.01860	0.00100	**0.02949**	0.32940	0.06480	**0.03473**	2.50740	0.30000	**0.11774**
	A3	0.01860	0.00100	**0.03786**	0.32940	0.06480	**0.04308**	2.50740	0.30000	**0.12661**
	S0	0.01860	0.00100	**0.04025**	0.32940	0.06480	**0.03914**	2.50740	0.30000	**-0.02864**
	S1	0.01860	0.00100	**0.02045**	0.32940	0.06480	**0.02519**	2.50740	0.30000	**0.07797**

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	**0.03603**	0.32940	0.06480	**0.01933**	2.50740	0.30000	**0.00000**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.03589**	0.32940	0.06480	**0.01914**	2.50740	0.30000	**0.00000**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.02320**	0.32940	0.06480	**0.03018**	2.50740	0.30000	**0.10928**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.02315**	0.32940	0.06480	**0.02997**	2.50740	0.30000	**0.10905**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01500**	0.32940	0.06480	**0.01970**	2.50740	0.30000	**0.07252**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01499**	0.32940	0.06480	**0.01971**	2.50740	0.30000	**0.07281**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01556**	0.32940	0.06480	**0.02245**	2.50740	0.30000	**0.08834**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01556**	0.32940	0.06480	**0.02246**	2.50740	0.30000	**0.08831**

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	**0.04115**	0.32940	0.06480	**0.03867**	2.50740	0.30000	**0.00000**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.04025**	0.32940	0.06480	**0.03914**	2.50740	0.30000	**0.00000**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.02214**	0.32940	0.06480	**0.02944**	2.50740	0.30000	**0.10880**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01521**	0.32940	0.06480	**0.00713**	2.50740	0.30000	**0.00624**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.02045**	0.32940	0.06480	**0.02519**	2.50740	0.30000	**0.07797**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.02181**	0.32940	0.06480	**0.02653**	2.50740	0.30000	**0.07997**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00910**	0.32940	0.06480	**0.01623**	2.50740	0.30000	**0.08005**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01043**	0.32940	0.06480	**0.01728**	2.50740	0.30000	**0.08219**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00989**	0.32940	**0.03102**	2.50740	**0.21261**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.01262**	0.32940	**0.03971**	2.50740	**0.21882**

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	**0.00688**	0.32940	**0.02783**	2.50740	**0.20947**
	(A0 * A1 * !S1)	0.01860	**0.00785**	0.32940	**0.02819**	2.50740	**0.20945**
	(!A2 * !A3 * S1)	0.01860	**0.00989**	0.32940	**0.03102**	2.50740	**0.21261**
	(!A0 * !A1 * !S1)	0.01860	**0.01140**	0.32940	**0.03195**	2.50740	**0.21313**

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	**0.01363**	0.32940	**0.04091**	2.50740	**0.22027**
	(A0 * A1 * !S1)	0.01860	**0.01473**	0.32940	**0.04396**	2.50740	**0.22285**
	(!A2 * !A3 * S1)	0.01860	**0.01262**	0.32940	**0.03971**	2.50740	**0.21882**
	(!A0 * !A1 * !S1)	0.01860	**0.01224**	0.32940	**0.03354**	2.50740	**0.21219**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00335**	0.32940	**0.01557**	2.50740	**0.11867**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00781**	0.32940	**0.02060**	2.50740	**0.12211**

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	**0.00335**	0.32940	**0.01557**	2.50740	**0.11867**
	(A0 * A2 * !S0)	0.01860	**0.00332**	0.32940	**0.01554**	2.50740	**0.11864**
	(!A1 * !A3 * S0)	0.01860	**0.00596**	0.32940	**0.01849**	2.50740	**0.12154**
	(!A0 * !A2 * !S0)	0.01860	**0.00594**	0.32940	**0.01848**	2.50740	**0.12152**

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	**0.00783**	0.32940	**0.02064**	2.50740	**0.12215**
	(A0 * A2 * !S0)	0.01860	**0.00781**	0.32940	**0.02060**	2.50740	**0.12211**
	(!A1 * !A3 * S0)	0.01860	**0.00712**	0.32940	**0.01964**	2.50740	**0.12108**
	(!A0 * !A2 * !S0)	0.01860	**0.00712**	0.32940	**0.01963**	2.50740	**0.12107**

NAND2B1

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00264	0.00350	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	357.06300	1055.55000	1612.75000

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	**0.02703**	0.32940	0.06480	**0.15612**	2.50740	0.30000	**0.58851**
	B->Y (FR)	0.01860	0.00100	**0.01461**	0.32940	0.06480	**0.20825**	2.50740	0.30000	**1.12496**

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	**0.03209**	0.32940	0.06480	**0.20385**	2.50740	0.30000	**0.79451**
	B->Y (RF)	0.01860	0.00100	**0.01910**	0.32940	0.06480	**0.22877**	2.50740	0.30000	**1.20984**

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	**0.00545**	0.32940	0.06480	**0.00588**	2.50740	0.30000	**0.00697**
	B	0.01860	0.00100	**0.00324**	0.32940	0.06480	**0.00811**	2.50740	0.30000	**0.05833**

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	**0.00871**	0.32940	0.06480	**0.00894**	2.50740	0.30000	**0.01092**
	B	0.01860	0.00100	**0.00800**	0.32940	0.06480	**0.01161**	2.50740	0.30000	**0.05733**

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	**0.00596**	0.32940	**0.01614**	2.50740	**0.10281**

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	**0.00352**	0.32940	**0.01369**	2.50740	**0.09898**

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	**0.00596**	0.32940	**0.01614**	2.50740	**0.10281**

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	**0.00352**	0.32940	**0.01369**	2.50740	**0.09898**

NAND2B2

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00250	0.00587	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_2	909.41600	1748.14000	2981.53000

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	**0.03517**	0.32940	0.12960	**0.17900**	2.50740	0.60000	**0.63209**
	B->Y (FR)	0.01860	0.00100	**0.01114**	0.32940	0.12960	**0.20509**	2.50740	0.60000	**1.11592**

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	**0.04186**	0.32940	0.12960	**0.23762**	2.50740	0.60000	**0.85685**
	B->Y (RF)	0.01860	0.00100	**0.01548**	0.32940	0.12960	**0.26412**	2.50740	0.60000	**1.43782**

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	**0.00965**	0.32940	0.12960	**0.01024**	2.50740	0.60000	**0.01321**
	B	0.01860	0.00100	**0.01061**	0.32940	0.12960	**0.02012**	2.50740	0.60000	**0.11256**

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	**0.01689**	0.32940	0.12960	**0.01813**	2.50740	0.60000	**0.02026**
	B	0.01860	0.00100	**0.01242**	0.32940	0.12960	**0.02083**	2.50740	0.60000	**0.10199**

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	**0.01064**	0.32940	**0.01910**	2.50740	**0.10358**

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	**0.01168**	0.32940	**0.02075**	2.50740	**0.10385**

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	**0.01064**	0.32940	**0.01910**	2.50740	**0.10358**

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	**0.01168**	0.32940	**0.02075**	2.50740	**0.10385**

NAND2x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00617	0.00643	0.60000
sg13g2_nand2_1	0.00324	0.00338	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_2	406.16600	1419.67000	2827.89000
sg13g2_nand2_1	203.35200	727.00900	1458.99000

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	**0.01142**	0.32940	0.12960	**0.20558**	2.50740	0.60000	**1.11423**
	B->Y (FR)	0.01860	0.00100	**0.01411**	0.32940	0.12960	**0.20859**	2.50740	0.60000	**1.12379**
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.01276**	0.32940	0.06480	**0.20500**	2.50740	0.30000	**1.11444**
	B->Y (FR)	0.01860	0.00100	**0.01503**	0.32940	0.06480	**0.20798**	2.50740	0.30000	**1.12330**

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	**0.01535**	0.32940	0.12960	**0.26399**	2.50740	0.60000	**1.43748**
	B->Y (RF)	0.01860	0.00100	**0.01753**	0.32940	0.12960	**0.23575**	2.50740	0.60000	**1.25010**
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.01658**	0.32940	0.06480	**0.25604**	2.50740	0.30000	**1.40330**
	B->Y (RF)	0.01860	0.00100	**0.01802**	0.32940	0.06480	**0.22798**	2.50740	0.30000	**1.20976**

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	**0.00609**	0.32940	0.12960	**0.01575**	2.50740	0.60000	**0.10565**
	B	0.01860	0.00100	**0.00713**	0.32940	0.12960	**0.01634**	2.50740	0.60000	**0.11395**
sg13g2_nand2_1	**A**	0.01860	0.00100	**0.00321**	0.32940	0.06480	**0.00804**	2.50740	0.30000	**0.05495**
	B	0.01860	0.00100	**0.00322**	0.32940	0.06480	**0.00811**	2.50740	0.30000	**0.05873**

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	**0.00790**	0.32940	0.12960	**0.01644**	2.50740	0.60000	**0.09747**
	B	0.01860	0.00100	**0.01452**	0.32940	0.12960	**0.02193**	2.50740	0.60000	**0.11356**
sg13g2_nand2_1	**A**	0.01860	0.00100	**0.00423**	0.32940	0.06480	**0.00842**	2.50740	0.30000	**0.05098**
	B	0.01860	0.00100	**0.00767**	0.32940	0.06480	**0.01160**	2.50740	0.30000	**0.05736**

NAND3B1

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00256	0.00338	0.00340	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	360.90900	1221.39000	2342.21000

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	**0.02846**	0.32940	0.06480	**0.15652**	2.50740	0.30000	**0.58769**
	B->Y (FR)	0.01860	0.00100	**0.01645**	0.32940	0.06480	**0.20923**	2.50740	0.30000	**1.11433**
	C->Y (FR)	0.01860	0.00100	**0.01775**	0.32940	0.06480	**0.21203**	2.50740	0.30000	**1.12192**

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	**0.03842**	0.32940	0.06480	**0.26469**	2.50740	0.30000	**1.05743**
	B->Y (RF)	0.01860	0.00100	**0.02837**	0.32940	0.06480	**0.29890**	2.50740	0.30000	**1.55289**
	C->Y (RF)	0.01860	0.00100	**0.03083**	0.32940	0.06480	**0.27590**	2.50740	0.30000	**1.35971**

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	**0.00595**	0.32940	0.06480	**0.00617**	2.50740	0.30000	**0.00795**
	B	0.01860	0.00100	**0.00401**	0.32940	0.06480	**0.00808**	2.50740	0.30000	**0.05076**
	C	0.01860	0.00100	**0.00443**	0.32940	0.06480	**0.00859**	2.50740	0.30000	**0.05432**

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	**0.01078**	0.32940	0.06480	**0.01076**	2.50740	0.30000	**0.01164**
	B	0.01860	0.00100	**0.01007**	0.32940	0.06480	**0.01275**	2.50740	0.30000	**0.04904**
	C	0.01860	0.00100	**0.01364**	0.32940	0.06480	**0.01636**	2.50740	0.30000	**0.06026**

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	**0.00586**	0.32940	**0.01608**	2.50740	**0.10269**

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	**0.00363**	0.32940	**0.01379**	2.50740	**0.09905**

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	**0.00586**	0.32940	**0.01608**	2.50740	**0.10269**

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	**0.00363**	0.32940	**0.01379**	2.50740	**0.09905**

NAND3

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00311	0.00328	0.00327	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	207.35200	893.01200	2188.64000

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	**0.01467**	0.32940	0.06480	**0.20637**	2.50740	0.30000	**1.10731**
	B->Y (FR)	0.01860	0.00100	**0.01692**	0.32940	0.06480	**0.20947**	2.50740	0.30000	**1.11435**
	C->Y (FR)	0.01860	0.00100	**0.01798**	0.32940	0.06480	**0.21210**	2.50740	0.30000	**1.12192**

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	**0.02281**	0.32940	0.06480	**0.31620**	2.50740	0.30000	**1.70368**
	B->Y (RF)	0.01860	0.00100	**0.02695**	0.32940	0.06480	**0.29832**	2.50740	0.30000	**1.55251**
	C->Y (RF)	0.01860	0.00100	**0.02873**	0.32940	0.06480	**0.27392**	2.50740	0.30000	**1.35878**

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	**0.00387**	0.32940	0.06480	**0.00808**	2.50740	0.30000	**0.04844**
	B	0.01860	0.00100	**0.00400**	0.32940	0.06480	**0.00812**	2.50740	0.30000	**0.05047**
	C	0.01860	0.00100	**0.00445**	0.32940	0.06480	**0.00858**	2.50740	0.30000	**0.05434**

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	**0.00620**	0.32940	0.06480	**0.00968**	2.50740	0.30000	**0.04611**
	B	0.01860	0.00100	**0.00976**	0.32940	0.06480	**0.01266**	2.50740	0.30000	**0.04967**
	C	0.01860	0.00100	**0.01292**	0.32940	0.06480	**0.01582**	2.50740	0.30000	**0.06014**

NAND4

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00309	0.00325	0.00326	0.00328	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	211.44400	1017.88000	2918.10000

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	**0.01547**	0.32940	0.06480	**0.20659**	2.50740	0.30000	**1.10063**
	B->Y (FR)	0.01860	0.00100	**0.01774**	0.32940	0.06480	**0.20979**	2.50740	0.30000	**1.10907**
	C->Y (FR)	0.01860	0.00100	**0.01888**	0.32940	0.06480	**0.21261**	2.50740	0.30000	**1.11533**
	D->Y (FR)	0.01860	0.00100	**0.01922**	0.32940	0.06480	**0.21477**	2.50740	0.30000	**1.12322**

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	**0.02796**	0.32940	0.06480	**0.37128**	2.50740	0.30000	**1.97661**
	B->Y (RF)	0.01860	0.00100	**0.03479**	0.32940	0.06480	**0.36111**	2.50740	0.30000	**1.85280**
	C->Y (RF)	0.01860	0.00100	**0.03886**	0.32940	0.06480	**0.34331**	2.50740	0.30000	**1.68856**
	D->Y (RF)	0.01860	0.00100	**0.04055**	0.32940	0.06480	**0.32619**	2.50740	0.30000	**1.53683**

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	**0.00380**	0.32940	0.06480	**0.00743**	2.50740	0.30000	**0.04402**
	B	0.01860	0.00100	**0.00415**	0.32940	0.06480	**0.00769**	2.50740	0.30000	**0.04596**
	C	0.01860	0.00100	**0.00452**	0.32940	0.06480	**0.00799**	2.50740	0.30000	**0.04764**
	D	0.01860	0.00100	**0.00478**	0.32940	0.06480	**0.00814**	2.50740	0.30000	**0.05104**

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	**0.00754**	0.32940	0.06480	**0.01054**	2.50740	0.30000	**0.04352**
	B	0.01860	0.00100	**0.01112**	0.32940	0.06480	**0.01345**	2.50740	0.30000	**0.04585**
	C	0.01860	0.00100	**0.01432**	0.32940	0.06480	**0.01636**	2.50740	0.30000	**0.05182**
	D	0.01860	0.00100	**0.01749**	0.32940	0.06480	**0.01947**	2.50740	0.30000	**0.06126**

NOR2Bx

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00628	0.00305	0.60000
sg13g2_nor2b_1	0.00323	0.00259	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_2	1443.41000	2040.20000	2771.89000
sg13g2_nor2b_1	862.05600	1172.43000	1492.50000

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	**0.01661**	0.32940	0.12960	**0.29567**	2.50740	0.60000	**1.60537**
	B_N->Y (RR)	0.01860	0.00100	**0.03930**	0.32940	0.12960	**0.26134**	2.50740	0.60000	**0.99097**
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.01882**	0.32940	0.06480	**0.29664**	2.50740	0.30000	**1.60869**
	B_N->Y (RR)	0.01860	0.00100	**0.03592**	0.32940	0.06480	**0.24557**	2.50740	0.30000	**0.95132**

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	**0.01129**	0.32940	0.12960	**0.19569**	2.50740	0.60000	**1.07138**
	B_N->Y (FF)	0.01860	0.00100	**0.03552**	0.32940	0.12960	**0.16764**	2.50740	0.60000	**0.57389**
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.01223**	0.32940	0.06480	**0.19015**	2.50740	0.30000	**1.03753**
	B_N->Y (FF)	0.01860	0.00100	**0.03037**	0.32940	0.06480	**0.14883**	2.50740	0.30000	**0.53455**

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	**0.00789**	0.32940	0.12960	**0.01684**	2.50740	0.60000	**0.10518**
	B_N	0.01860	0.00100	**0.01889**	0.32940	0.12960	**0.01928**	2.50740	0.60000	**0.02157**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00389**	0.32940	0.06480	**0.00853**	2.50740	0.30000	**0.05355**
	B_N	0.01860	0.00100	**0.01047**	0.32940	0.06480	**0.01073**	2.50740	0.30000	**0.01275**

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	**0.00568**	0.32940	0.12960	**0.01470**	2.50740	0.60000	**0.09588**
	B_N	0.01860	0.00100	**0.00885**	0.32940	0.12960	**0.00899**	2.50740	0.60000	**0.01042**
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00350**	0.32940	0.06480	**0.00769**	2.50740	0.30000	**0.04876**
	B_N	0.01860	0.00100	**0.00485**	0.32940	0.06480	**0.00495**	2.50740	0.30000	**0.00409**

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	**0.01192**	0.32940	**0.02251**	2.50740	**0.12313**
sg13g2_nor2b_1	0.01860	**0.00601**	0.32940	**0.01569**	2.50740	**0.10160**

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	**0.01158**	0.32940	**0.02255**	2.50740	**0.12186**
sg13g2_nor2b_1	0.01860	**0.00663**	0.32940	**0.01651**	2.50740	**0.10126**

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	**0.01192**	0.32940	**0.02251**	2.50740	**0.12313**
sg13g2_nor2b_1	**A**	0.01860	**0.00601**	0.32940	**0.01569**	2.50740	**0.10160**

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	**0.01158**	0.32940	**0.02255**	2.50740	**0.12186**
sg13g2_nor2b_1	**A**	0.01860	**0.00663**	0.32940	**0.01651**	2.50740	**0.10126**

NOR2x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00660	0.00630	0.30000
sg13g2_nor2_1	0.00340	0.00323	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_2	834.31500	1688.03000	2677.84000
sg13g2_nor2_1	417.19800	844.01900	1338.89000

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	**0.02007**	0.32940	0.06480	**0.17065**	2.50740	0.30000	**0.88057**
	B->Y (FR)	0.01860	0.00100	**0.01685**	0.32940	0.06480	**0.19796**	2.50740	0.30000	**1.06579**
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.02108**	0.32940	0.06480	**0.26420**	2.50740	0.30000	**1.36875**
	B->Y (FR)	0.01860	0.00100	**0.01883**	0.32940	0.06480	**0.29624**	2.50740	0.30000	**1.60754**

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	**0.01352**	0.32940	0.06480	**0.13288**	2.50740	0.30000	**0.68785**
	B->Y (RF)	0.01860	0.00100	**0.01110**	0.32940	0.06480	**0.12784**	2.50740	0.30000	**0.66941**
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.01437**	0.32940	0.06480	**0.19321**	2.50740	0.30000	**1.04721**
	B->Y (RF)	0.01860	0.00100	**0.01227**	0.32940	0.06480	**0.19014**	2.50740	0.30000	**1.03749**

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	**0.01664**	0.32940	0.06480	**0.02808**	2.50740	0.30000	**0.15306**
	B	0.01860	0.00100	**0.00807**	0.32940	0.06480	**0.02141**	2.50740	0.30000	**0.14072**
sg13g2_nor2_1	**A**	0.01860	0.00100	**0.00822**	0.32940	0.06480	**0.01222**	2.50740	0.30000	**0.06164**
	B	0.01860	0.00100	**0.00389**	0.32940	0.06480	**0.00848**	2.50740	0.30000	**0.05372**

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	**0.00714**	0.32940	0.06480	**0.01959**	2.50740	0.30000	**0.13951**
	B	0.01860	0.00100	**0.00566**	0.32940	0.06480	**0.01780**	2.50740	0.30000	**0.12818**
sg13g2_nor2_1	**A**	0.01860	0.00100	**0.00355**	0.32940	0.06480	**0.00784**	2.50740	0.30000	**0.05321**
	B	0.01860	0.00100	**0.00348**	0.32940	0.06480	**0.00771**	2.50740	0.30000	**0.04892**

NOR3x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00656	0.00647	0.00620	0.60000
sg13g2_nor3_1	0.00344	0.00342	0.00324	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_2	1251.47000	2285.09000	3978.83000
sg13g2_nor3_1	628.42700	1191.44000	2091.28000

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	**0.03341**	0.32940	0.12960	**0.33906**	2.50740	0.60000	**1.63018**
	B->Y (FR)	0.01860	0.00100	**0.03116**	0.32940	0.12960	**0.36465**	2.50740	0.60000	**1.85288**
	C->Y (FR)	0.01860	0.00100	**0.02311**	0.32940	0.12960	**0.38099**	2.50740	0.60000	**2.03567**
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.03597**	0.32940	0.06480	**0.33796**	2.50740	0.30000	**1.62819**
	B->Y (FR)	0.01860	0.00100	**0.03377**	0.32940	0.06480	**0.36286**	2.50740	0.30000	**1.84380**
	C->Y (FR)	0.01860	0.00100	**0.02654**	0.32940	0.06480	**0.38025**	2.50740	0.30000	**2.02152**

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	**0.01535**	0.32940	0.12960	**0.19692**	2.50740	0.60000	**1.04620**
	B->Y (RF)	0.01860	0.00100	**0.01499**	0.32940	0.12960	**0.19411**	2.50740	0.60000	**1.03717**
	C->Y (RF)	0.01860	0.00100	**0.01252**	0.32940	0.12960	**0.19067**	2.50740	0.60000	**1.02779**
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.01598**	0.32940	0.06480	**0.19182**	2.50740	0.30000	**1.01842**
	B->Y (RF)	0.01860	0.00100	**0.01570**	0.32940	0.06480	**0.19029**	2.50740	0.30000	**1.01369**
	C->Y (RF)	0.01860	0.00100	**0.01362**	0.32940	0.06480	**0.18667**	2.50740	0.30000	**1.00366**

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	**0.02789**	0.32940	0.12960	**0.03305**	2.50740	0.60000	**0.12146**
	B	0.01860	0.00100	**0.01985**	0.32940	0.12960	**0.02532**	2.50740	0.60000	**0.10177**
	C	0.01860	0.00100	**0.01115**	0.32940	0.12960	**0.01876**	2.50740	0.60000	**0.09654**
sg13g2_nor3_1	A	0.01860	0.00100	**0.01424**	0.32940	0.06480	**0.01698**	2.50740	0.30000	**0.06310**
	B	0.01860	0.00100	**0.01022**	0.32940	0.06480	**0.01308**	2.50740	0.30000	**0.05273**
	C	0.01860	0.00100	**0.00591**	0.32940	0.06480	**0.00984**	2.50740	0.30000	**0.04887**

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	**0.00880**	0.32940	0.12960	**0.01602**	2.50740	0.60000	**0.09613**
	B	0.01860	0.00100	**0.00826**	0.32940	0.12960	**0.01524**	2.50740	0.60000	**0.08875**
	C	0.01860	0.00100	**0.00645**	0.32940	0.12960	**0.01395**	2.50740	0.60000	**0.08271**
sg13g2_nor3_1	A	0.01860	0.00100	**0.00455**	0.32940	0.06480	**0.00781**	2.50740	0.30000	**0.05010**
	B	0.01860	0.00100	**0.00440**	0.32940	0.06480	**0.00790**	2.50740	0.30000	**0.04607**
	C	0.01860	0.00100	**0.00393**	0.32940	0.06480	**0.00743**	2.50740	0.30000	**0.04369**

NOR4x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00658	0.00637	0.00547	0.00551	0.60000
sg13g2_nor4_1	0.00341	0.00334	0.00286	0.00286	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_2	1430.21000	3050.08000	5284.73000
sg13g2_nor4_1	715.11300	1525.05000	2642.39000

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	**0.05158**	0.32940	0.12960	**0.42812**	2.50740	0.60000	**1.94516**
	B->Y (FR)	0.01860	0.00100	**0.04946**	0.32940	0.12960	**0.44425**	2.50740	0.60000	**2.11171**
	C->Y (FR)	0.01860	0.00100	**0.04223**	0.32940	0.12960	**0.46017**	2.50740	0.60000	**2.28520**
	D->Y (FR)	0.01860	0.00100	**0.02913**	0.32940	0.12960	**0.46746**	2.50740	0.60000	**2.42124**
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.05378**	0.32940	0.06480	**0.42377**	2.50740	0.30000	**1.93274**
	B->Y (FR)	0.01860	0.00100	**0.05169**	0.32940	0.06480	**0.44002**	2.50740	0.30000	**2.09537**
	C->Y (FR)	0.01860	0.00100	**0.04501**	0.32940	0.06480	**0.45643**	2.50740	0.30000	**2.27088**
	D->Y (FR)	0.01860	0.00100	**0.03252**	0.32940	0.06480	**0.46372**	2.50740	0.30000	**2.40206**

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	**0.01614**	0.32940	0.12960	**0.19996**	2.50740	0.60000	**1.04800**
	B->Y (RF)	0.01860	0.00100	**0.01656**	0.32940	0.12960	**0.19810**	2.50740	0.60000	**1.04187**
	C->Y (RF)	0.01860	0.00100	**0.01598**	0.32940	0.12960	**0.19509**	2.50740	0.60000	**1.03316**
	D->Y (RF)	0.01860	0.00100	**0.01360**	0.32940	0.12960	**0.19135**	2.50740	0.60000	**1.02277**
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.01713**	0.32940	0.06480	**0.19980**	2.50740	0.30000	**1.04783**
	B->Y (RF)	0.01860	0.00100	**0.01753**	0.32940	0.06480	**0.19846**	2.50740	0.30000	**1.04492**
	C->Y (RF)	0.01860	0.00100	**0.01689**	0.32940	0.06480	**0.19552**	2.50740	0.30000	**1.03580**
	D->Y (RF)	0.01860	0.00100	**0.01461**	0.32940	0.06480	**0.19212**	2.50740	0.30000	**1.02780**

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	**0.03487**	0.32940	0.12960	**0.03792**	2.50740	0.60000	**0.11937**
	B	0.01860	0.00100	**0.03078**	0.32940	0.12960	**0.03395**	2.50740	0.60000	**0.10579**
	C	0.01860	0.00100	**0.02291**	0.32940	0.12960	**0.02719**	2.50740	0.60000	**0.09180**
	D	0.01860	0.00100	**0.01414**	0.32940	0.12960	**0.02079**	2.50740	0.60000	**0.08761**
sg13g2_nor4_1	A	0.01860	0.00100	**0.01738**	0.32940	0.06480	**0.01891**	2.50740	0.30000	**0.05997**
	B	0.01860	0.00100	**0.01512**	0.32940	0.06480	**0.01678**	2.50740	0.30000	**0.05319**
	C	0.01860	0.00100	**0.01122**	0.32940	0.06480	**0.01335**	2.50740	0.30000	**0.04622**
	D	0.01860	0.00100	**0.00690**	0.32940	0.06480	**0.01017**	2.50740	0.30000	**0.04380**

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	**0.01478**	0.32940	0.12960	**0.02039**	2.50740	0.60000	**0.09622**
	B	0.01860	0.00100	**0.01052**	0.32940	0.12960	**0.01595**	2.50740	0.60000	**0.08496**
	C	0.01860	0.00100	**0.00882**	0.32940	0.12960	**0.01496**	2.50740	0.60000	**0.07859**
	D	0.01860	0.00100	**0.00688**	0.32940	0.12960	**0.01352**	2.50740	0.60000	**0.07377**
sg13g2_nor4_1	A	0.01860	0.00100	**0.00728**	0.32940	0.06480	**0.00987**	2.50740	0.30000	**0.04798**
	B	0.01860	0.00100	**0.00550**	0.32940	0.06480	**0.00837**	2.50740	0.30000	**0.04322**
	C	0.01860	0.00100	**0.00484**	0.32940	0.06480	**0.00791**	2.50740	0.30000	**0.03981**
	D	0.01860	0.00100	**0.00407**	0.32940	0.06480	**0.00738**	2.50740	0.30000	**0.03762**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**-0.00379**	0.32940	**-0.00376**	2.50740	**-0.00385**
sg13g2_nor4_1	0.01860	**-0.00173**	0.32940	**-0.00170**	2.50740	**-0.00175**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_2	0.01860	**0.00379**	0.32940	**0.00376**	2.50740	**0.00385**
sg13g2_nor4_1	0.01860	**0.00173**	0.32940	**0.00170**	2.50740	**0.00175**

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	**-0.00379**	0.32940	**-0.00376**	2.50740	**-0.00385**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00173**	0.32940	**-0.00170**	2.50740	**-0.00175**

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	**0.00379**	0.32940	**0.00376**	2.50740	**0.00385**
sg13g2_nor4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00173**	0.32940	**0.00170**	2.50740	**0.00175**

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	**0.00000**	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 C 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 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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	**(A * !D) + (!A * B * !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_nor4_2	**(A * !D) + (!A * B * !D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	**(A * !D) + (!A * B * !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_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 D 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 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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

NP_ANT

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00112

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	8.16751	8.16751	8.16751

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	**-0.00033**	0.32940	**-0.00034**	2.50740	**-0.00035**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00033**	0.32940	**0.00034**	2.50740	**0.00035**

O21AI

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00373	0.00374	0.00335	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	444.88600	1609.43000	2871.46000

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	**0.03432**	0.32940	0.06480	**0.31901**	2.50740	0.30000	**1.60141**
	A2->Y (FR)	0.01860	0.00100	**0.03020**	0.32940	0.06480	**0.35006**	2.50740	0.30000	**1.86925**
	B1->Y (FR)	0.01860	0.00100	**0.01609**	0.32940	0.06480	**0.24161**	2.50740	0.30000	**1.32588**

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	**0.02479**	0.32940	0.06480	**0.23229**	2.50740	0.30000	**1.16239**
	A2->Y (RF)	0.01860	0.00100	**0.02076**	0.32940	0.06480	**0.22672**	2.50740	0.30000	**1.14748**
	B1->Y (RF)	0.01860	0.00100	**0.02186**	0.32940	0.06480	**0.26233**	2.50740	0.30000	**1.39218**

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	**0.01609**	0.32940	0.06480	**0.24161**	2.50740	0.30000	**1.32588**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01528**	0.32940	0.06480	**0.23919**	2.50740	0.30000	**1.32153**

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	**0.02186**	0.32940	0.06480	**0.26233**	2.50740	0.30000	**1.39218**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01698**	0.32940	0.06480	**0.25553**	2.50740	0.30000	**1.37661**

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	**0.00989**	0.32940	0.06480	**0.01254**	2.50740	0.30000	**0.05254**
	A2	0.01860	0.00100	**0.00483**	0.32940	0.06480	**0.00796**	2.50740	0.30000	**0.04398**
	B1	0.01860	0.00100	**0.00187**	0.32940	0.06480	**0.00647**	2.50740	0.30000	**0.05112**

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	**0.00903**	0.32940	0.06480	**0.01153**	2.50740	0.30000	**0.04845**
	A2	0.01860	0.00100	**0.00853**	0.32940	0.06480	**0.01158**	2.50740	0.30000	**0.04449**
	B1	0.01860	0.00100	**0.00447**	0.32940	0.06480	**0.00855**	2.50740	0.30000	**0.04794**

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	**0.00664**	0.32940	0.06480	**0.01112**	2.50740	0.30000	**0.05500**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00187**	0.32940	0.06480	**0.00647**	2.50740	0.30000	**0.05112**

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	**0.00540**	0.32940	0.06480	**0.00887**	2.50740	0.30000	**0.04876**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00447**	0.32940	0.06480	**0.00855**	2.50740	0.30000	**0.04794**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00000**	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_o21ai_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	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_o21ai_1	**(!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_o21ai_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_o21ai_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_o21ai_1	**(!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_o21ai_1	**(!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_o21ai_1	0.01860	**-0.00018**	0.32940	**-0.00017**	2.50740	**-0.00016**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_o21ai_1	0.01860	**0.00143**	0.32940	**0.00148**	2.50740	**0.00148**

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	**-0.00018**	0.32940	**-0.00017**	2.50740	**-0.00016**

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	**0.00143**	0.32940	**0.00148**	2.50740	**0.00148**

OR2x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00279	0.00259	0.60000
sg13g2_or2_1	0.00282	0.00263	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_2	904.48000	1261.49000	1766.23000
sg13g2_or2_1	696.08500	922.85700	1113.97000

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	**0.03440**	0.32940	0.12960	**0.18305**	2.50740	0.60000	**0.61772**
	B->X (RR)	0.01860	0.00100	**0.03244**	0.32940	0.12960	**0.17420**	2.50740	0.60000	**0.55782**
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.02930**	0.32940	0.06480	**0.16234**	2.50740	0.30000	**0.57347**
	B->X (RR)	0.01860	0.00100	**0.02722**	0.32940	0.06480	**0.15134**	2.50740	0.30000	**0.50663**

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	**0.05621**	0.32940	0.12960	**0.19645**	2.50740	0.60000	**0.64728**
	B->X (FF)	0.01860	0.00100	**0.05359**	0.32940	0.12960	**0.21315**	2.50740	0.60000	**0.72737**
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.04315**	0.32940	0.06480	**0.16829**	2.50740	0.30000	**0.59779**
	B->X (FF)	0.01860	0.00100	**0.04050**	0.32940	0.06480	**0.18069**	2.50740	0.30000	**0.66809**

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	**0.02039**	0.32940	0.12960	**0.02812**	2.50740	0.60000	**0.10669**
	B	0.01860	0.00100	**0.02005**	0.32940	0.12960	**0.02713**	2.50740	0.60000	**0.10382**
sg13g2_or2_1	A	0.01860	0.00100	**0.01170**	0.32940	0.06480	**0.02049**	2.50740	0.30000	**0.09853**
	B	0.01860	0.00100	**0.01142**	0.32940	0.06480	**0.01981**	2.50740	0.30000	**0.09484**

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	**0.02654**	0.32940	0.12960	**0.03064**	2.50740	0.60000	**0.10573**
	B	0.01860	0.00100	**0.02347**	0.32940	0.12960	**0.02855**	2.50740	0.60000	**0.10199**
sg13g2_or2_1	A	0.01860	0.00100	**0.01515**	0.32940	0.06480	**0.02273**	2.50740	0.30000	**0.09801**
	B	0.01860	0.00100	**0.01205**	0.32940	0.06480	**0.02045**	2.50740	0.30000	**0.09331**

OR3x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00295	0.00288	0.00274	0.60000
sg13g2_or3_1	0.00297	0.00291	0.00278	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_2	911.99300	1393.40000	2004.67000
sg13g2_or3_1	703.34600	1119.64000	1554.38000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_2	A->X (RR)	0.01860	0.00100	**0.03840**	0.32940	0.12960	**0.19654**	2.50740	0.60000	**0.66383**
	B->X (RR)	0.01860	0.00100	**0.03684**	0.32940	0.12960	**0.18814**	2.50740	0.60000	**0.60341**
	C->X (RR)	0.01860	0.00100	**0.03412**	0.32940	0.12960	**0.17897**	2.50740	0.60000	**0.55438**
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.03318**	0.32940	0.06480	**0.17713**	2.50740	0.30000	**0.62366**
	B->X (RR)	0.01860	0.00100	**0.03188**	0.32940	0.06480	**0.16760**	2.50740	0.30000	**0.55692**
	C->X (RR)	0.01860	0.00100	**0.02909**	0.32940	0.06480	**0.15640**	2.50740	0.30000	**0.50228**

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	**0.07676**	0.32940	0.12960	**0.20919**	2.50740	0.60000	**0.64395**
	B->X (FF)	0.01860	0.00100	**0.07431**	0.32940	0.12960	**0.22641**	2.50740	0.60000	**0.73133**
	C->X (FF)	0.01860	0.00100	**0.06743**	0.32940	0.12960	**0.23603**	2.50740	0.60000	**0.78259**
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.06027**	0.32940	0.06480	**0.18084**	2.50740	0.30000	**0.59832**
	B->X (FF)	0.01860	0.00100	**0.05782**	0.32940	0.06480	**0.19516**	2.50740	0.30000	**0.67757**
	C->X (FF)	0.01860	0.00100	**0.05082**	0.32940	0.06480	**0.20012**	2.50740	0.30000	**0.71867**

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	**0.02140**	0.32940	0.12960	**0.02959**	2.50740	0.60000	**0.11080**
	B	0.01860	0.00100	**0.02087**	0.32940	0.12960	**0.02784**	2.50740	0.60000	**0.10597**
	C	0.01860	0.00100	**0.02043**	0.32940	0.12960	**0.02734**	2.50740	0.60000	**0.10565**
sg13g2_or3_1	A	0.01860	0.00100	**0.01238**	0.32940	0.06480	**0.02031**	2.50740	0.30000	**0.10224**
	B	0.01860	0.00100	**0.01202**	0.32940	0.06480	**0.01941**	2.50740	0.30000	**0.09314**
	C	0.01860	0.00100	**0.01172**	0.32940	0.06480	**0.01982**	2.50740	0.30000	**0.09266**

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	**0.03532**	0.32940	0.12960	**0.03482**	2.50740	0.60000	**0.11373**
	B	0.01860	0.00100	**0.03182**	0.32940	0.12960	**0.03213**	2.50740	0.60000	**0.10592**
	C	0.01860	0.00100	**0.02804**	0.32940	0.12960	**0.03006**	2.50740	0.60000	**0.10308**
sg13g2_or3_1	A	0.01860	0.00100	**0.02202**	0.32940	0.06480	**0.02738**	2.50740	0.30000	**0.10594**
	B	0.01860	0.00100	**0.01851**	0.32940	0.06480	**0.02454**	2.50740	0.30000	**0.09609**
	C	0.01860	0.00100	**0.01468**	0.32940	0.06480	**0.02155**	2.50740	0.30000	**0.09154**

OR4x

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00297	0.00293	0.00239	0.00242	0.60000
sg13g2_or4_1	0.00297	0.00294	0.00240	0.00244	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_2	915.50800	1555.85000	2202.02000
sg13g2_or4_1	707.09900	1314.87000	1993.61000

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	**0.03993**	0.32940	0.12960	**0.20161**	2.50740	0.60000	**0.65890**
	B->X (RR)	0.01860	0.00100	**0.03935**	0.32940	0.12960	**0.19556**	2.50740	0.60000	**0.60587**
	C->X (RR)	0.01860	0.00100	**0.03753**	0.32940	0.12960	**0.18690**	2.50740	0.60000	**0.55856**
	D->X (RR)	0.01860	0.00100	**0.03461**	0.32940	0.12960	**0.17828**	2.50740	0.60000	**0.51526**
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.03458**	0.32940	0.06480	**0.18299**	2.50740	0.30000	**0.61956**
	B->X (RR)	0.01860	0.00100	**0.03426**	0.32940	0.06480	**0.17602**	2.50740	0.30000	**0.56205**
	C->X (RR)	0.01860	0.00100	**0.03267**	0.32940	0.06480	**0.16689**	2.50740	0.30000	**0.50864**
	D->X (RR)	0.01860	0.00100	**0.02970**	0.32940	0.06480	**0.15576**	2.50740	0.30000	**0.46202**

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	**0.10527**	0.32940	0.12960	**0.23820**	2.50740	0.60000	**0.69731**
	B->X (FF)	0.01860	0.00100	**0.10286**	0.32940	0.12960	**0.25086**	2.50740	0.60000	**0.77894**
	C->X (FF)	0.01860	0.00100	**0.09609**	0.32940	0.12960	**0.26226**	2.50740	0.60000	**0.83815**
	D->X (FF)	0.01860	0.00100	**0.08448**	0.32940	0.12960	**0.26683**	2.50740	0.60000	**0.87274**
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.08312**	0.32940	0.06480	**0.20465**	2.50740	0.30000	**0.64990**
	B->X (FF)	0.01860	0.00100	**0.08072**	0.32940	0.06480	**0.21569**	2.50740	0.30000	**0.72555**
	C->X (FF)	0.01860	0.00100	**0.07398**	0.32940	0.06480	**0.22443**	2.50740	0.30000	**0.77913**
	D->X (FF)	0.01860	0.00100	**0.06220**	0.32940	0.06480	**0.22590**	2.50740	0.30000	**0.80384**

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	**0.02451**	0.32940	0.12960	**0.03146**	2.50740	0.60000	**0.11081**
	B	0.01860	0.00100	**0.02201**	0.32940	0.12960	**0.02890**	2.50740	0.60000	**0.10124**
	C	0.01860	0.00100	**0.02119**	0.32940	0.12960	**0.02663**	2.50740	0.60000	**0.09765**
	D	0.01860	0.00100	**0.02057**	0.32940	0.12960	**0.02699**	2.50740	0.60000	**0.09328**
sg13g2_or4_1	A	0.01860	0.00100	**0.01529**	0.32940	0.06480	**0.02222**	2.50740	0.30000	**0.10172**
	B	0.01860	0.00100	**0.01296**	0.32940	0.06480	**0.01953**	2.50740	0.30000	**0.09193**
	C	0.01860	0.00100	**0.01234**	0.32940	0.06480	**0.01867**	2.50740	0.30000	**0.08424**
	D	0.01860	0.00100	**0.01186**	0.32940	0.06480	**0.01910**	2.50740	0.30000	**0.08303**

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	**0.03943**	0.32940	0.12960	**0.03425**	2.50740	0.60000	**0.11355**
	B	0.01860	0.00100	**0.03973**	0.32940	0.12960	**0.03562**	2.50740	0.60000	**0.10652**
	C	0.01860	0.00100	**0.03631**	0.32940	0.12960	**0.03202**	2.50740	0.60000	**0.09605**
	D	0.01860	0.00100	**0.03248**	0.32940	0.12960	**0.02981**	2.50740	0.60000	**0.09369**
sg13g2_or4_1	A	0.01860	0.00100	**0.02329**	0.32940	0.06480	**0.02551**	2.50740	0.30000	**0.10287**
	B	0.01860	0.00100	**0.02359**	0.32940	0.06480	**0.02665**	2.50740	0.30000	**0.09698**
	C	0.01860	0.00100	**0.02015**	0.32940	0.06480	**0.02399**	2.50740	0.30000	**0.08913**
	D	0.01860	0.00100	**0.01630**	0.32940	0.06480	**0.02176**	2.50740	0.30000	**0.08525**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00201**	0.32940	**-0.00205**	2.50740	**-0.00208**
sg13g2_or4_1	0.01860	**-0.00201**	0.32940	**-0.00205**	2.50740	**-0.00209**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00380**	0.32940	**0.00379**	2.50740	**0.00380**
sg13g2_or4_1	0.01860	**0.00380**	0.32940	**0.00379**	2.50740	**0.00380**

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	**-0.00201**	0.32940	**-0.00205**	2.50740	**-0.00208**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00201**	0.32940	**-0.00205**	2.50740	**-0.00209**

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	**0.00380**	0.32940	**0.00379**	2.50740	**0.00380**
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**0.00380**	0.32940	**0.00379**	2.50740	**0.00380**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**-0.00002**	0.32940	**-0.00005**	2.50740	**-0.00006**
sg13g2_or4_1	0.01860	**-0.00002**	0.32940	**-0.00005**	2.50740	**-0.00006**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00002**	0.32940	**0.00005**	2.50740	**0.00006**
sg13g2_or4_1	0.01860	**0.00002**	0.32940	**0.00005**	2.50740	**0.00006**

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	**-0.00002**	0.32940	**-0.00005**	2.50740	**-0.00006**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**-0.00002**	0.32940	**-0.00005**	2.50740	**-0.00006**

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	**0.00002**	0.32940	**0.00005**	2.50740	**0.00006**
sg13g2_or4_1	**(!A * C) + (!A * !C * D)**	0.01860	**0.00002**	0.32940	**0.00005**	2.50740	**0.00006**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_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_or4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_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_or4_2	**(A * !D) + (!A * B * !D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	**(A * !D) + (!A * B * !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_or4_2	**(A * !D) + (!A * B * !D)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	**(A * !D) + (!A * B * !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_or4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_2	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	0.01860	**0.00000**	0.32940	**0.00000**	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_or4_2	**(A * !C) + (!A * B * !C)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

SDFRRS

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process
sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0	0	x	0	0
x	x	x	0	1	x	0	1
x	x	x	1	0	x	1	0
x	x	x	1	1	x	IQ	IQN

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	D	SCD	SCE	RESET_B	SET_B	CLK	Q	Q_N
sg13g2_sdfbbp_1	0.00218	0.00225	0.00399	0.00196	0.00589	0.00343	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	5790.42000	6734.86000	7421.60000

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	**0.14222**	0.32940	0.06480	**0.27471**	2.50740	0.30000	**0.66347**
	SET_B->Q (FR)	0.01860	0.00100	**0.05922**	0.32940	0.06480	**0.20802**	2.50740	0.30000	**0.64089**

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	**0.11954**	0.32940	0.06480	**0.24308**	2.50740	0.30000	**0.59703**
	RESET_B->Q (FF)	0.01860	0.00100	**0.09986**	0.32940	0.06480	**0.23540**	2.50740	0.30000	**0.62741**

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	**0.14222**	0.32940	0.06480	**0.27471**	2.50740	0.30000	**0.66347**

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	**0.11954**	0.32940	0.06480	**0.24308**	2.50740	0.30000	**0.59703**

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	**0.09905**	0.32940	0.06480	**0.24494**	2.50740	0.30000	**0.64748**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07871**	0.32940	0.06480	**0.24087**	2.50740	0.30000	**0.68521**

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	**0.11962**	0.32940	0.06480	**0.25992**	2.50740	0.30000	**0.60510**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.04014**	0.32940	0.06480	**0.19175**	2.50740	0.30000	**0.58457**

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	**0.09905**	0.32940	0.06480	**0.24494**	2.50740	0.30000	**0.64748**

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	**0.11962**	0.32940	0.06480	**0.25992**	2.50740	0.30000	**0.60510**

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	**-0.04401**	1.26300	1.26300	**-0.14841**	2.50740	2.50740	**-0.20366**
	setup	CLK (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.16190**	2.50740	2.50740	**0.22137**

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	**-0.04401**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.17414**
	setup	CLK (R)	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.18349**	2.50740	2.50740	**0.27744**

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	**-0.05624**	1.26300	1.26300	**-0.15920**	2.50740	2.50740	**-0.22432**
	setup	CLK (R)	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.23908**

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	**-0.05868**	1.26300	1.26300	**-0.11603**	2.50740	2.50740	**-0.15938**
	setup	CLK (R)	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.25973**

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	**-0.04401**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.26269**
	setup	CLK (R)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.19968**	2.50740	2.50740	**0.29515**

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	**-0.04401**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.07674**
	setup	CLK (R)	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.12952**	2.50740	2.50740	**0.18004**

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	**0.03668**	1.26300	1.26300	**0.06476**	2.50740	2.50740	**0.08264**
	removal	CLK (R)	0.01860	0.01860	**-0.01956**	1.26300	1.26300	**-0.04048**	2.50740	2.50740	**-0.04722**

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	**0.01467**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.55489**
	removal	CLK (R)	0.01860	0.01860	**0.01712**	1.26300	1.26300	**0.03778**	2.50740	2.50740	**0.02952**
	hold	RESET_B (R)	0.01860	0.01860	**-0.03668**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.19185**
	setup	RESET_B (R)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.16730**	2.50740	2.50740	**0.28630**

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	**0.03378**	0.32940	0.06480	**0.04069**	2.50740	0.30000	**0.10358**
	SET_B	0.01860	0.00100	**0.06148**	0.32940	0.06480	**0.16793**	2.50740	0.30000	**0.64191**

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	**0.03267**	0.32940	0.06480	**0.03980**	2.50740	0.30000	**0.10747**
	RESET_B	0.01860	0.00100	**0.07049**	0.32940	0.06480	**0.16467**	2.50740	0.30000	**0.56515**

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	**0.03378**	0.32940	0.06480	**0.04069**	2.50740	0.30000	**0.10358**

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	**0.03267**	0.32940	0.06480	**0.03980**	2.50740	0.30000	**0.10747**

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	**0.03266**	0.32940	0.06480	**0.04006**	2.50740	0.30000	**0.10674**
	RESET_B	0.01860	0.00100	**0.07046**	0.32940	0.06480	**0.16533**	2.50740	0.30000	**0.56228**

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	**0.03377**	0.32940	0.06480	**0.04039**	2.50740	0.30000	**0.10475**
	SET_B	0.01860	0.00100	**0.06142**	0.32940	0.06480	**0.16737**	2.50740	0.30000	**0.64373**

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	**0.03266**	0.32940	0.06480	**0.04006**	2.50740	0.30000	**0.10674**

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	**0.03377**	0.32940	0.06480	**0.04039**	2.50740	0.30000	**0.10475**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00635**	0.32940	**0.01059**	2.50740	**0.05893**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00865**	0.32940	**0.01311**	2.50740	**0.06092**

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	**0.02089**	0.32940	**0.02600**	2.50740	**0.08045**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00635**	0.32940	**0.01059**	2.50740	**0.05893**

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	**0.02221**	0.32940	**0.02745**	2.50740	**0.08140**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00865**	0.32940	**0.01311**	2.50740	**0.06092**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00939**	0.32940	**0.01309**	2.50740	**0.06419**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00606**	0.32940	**0.01014**	2.50740	**0.06124**

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	**0.02376**	0.32940	**0.02827**	2.50740	**0.08471**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00939**	0.32940	**0.01309**	2.50740	**0.06419**

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	**0.03143**	0.32940	**0.03559**	2.50740	**0.09223**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00606**	0.32940	**0.01014**	2.50740	**0.06124**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02807**	0.32940	**0.03479**	2.50740	**0.10274**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.03267**	0.32940	**0.05299**	2.50740	**0.11937**

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	**0.02124**	0.32940	**0.02923**	2.50740	**0.09764**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02807**	0.32940	**0.03479**	2.50740	**0.10274**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.02299**	0.32940	**0.03660**	2.50740	**0.15929**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00813**	0.32940	**0.02069**	2.50740	**0.13708**

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	**0.02860**	0.32940	**0.03650**	2.50740	**0.10304**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.03267**	0.32940	**0.05299**	2.50740	**0.11937**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00588**	0.32940	**0.06206**	2.50740	**0.18147**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00782**	0.32940	**0.01997**	2.50740	**0.13450**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01988**	0.32940	**0.03357**	2.50740	**0.15969**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.02211**	0.32940	**0.03638**	2.50740	**0.16055**

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	**0.01975**	0.32940	**0.03341**	2.50740	**0.15933**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02385**	0.32940	**0.03751**	2.50740	**0.16290**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01988**	0.32940	**0.03357**	2.50740	**0.15969**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01973**	0.32940	**0.03339**	2.50740	**0.15931**
	(!RESET_B * !Q * Q_N)	0.01860	**0.02193**	0.32940	**0.03564**	2.50740	**0.16182**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01986**	0.32940	**0.03357**	2.50740	**0.15970**

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	**0.02111**	0.32940	**0.03531**	2.50740	**0.15968**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.03861**	0.32940	**0.05344**	2.50740	**0.18170**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.02019**	0.32940	**0.03530**	2.50740	**0.16164**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.04151**	0.32940	**0.05657**	2.50740	**0.18299**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.02160**	0.32940	**0.03586**	2.50740	**0.16003**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.02112**	0.32940	**0.03531**	2.50740	**0.15968**
	(!RESET_B * !Q * Q_N)	0.01860	**0.02211**	0.32940	**0.03638**	2.50740	**0.16055**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.02159**	0.32940	**0.03585**	2.50740	**0.16002**

SGCLK

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00225	0.00272	0.00573	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	3362.00000	3668.47000	4067.22000

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	**0.03657**	0.32940	0.06480	**0.16450**	2.50740	0.30000	**0.59155**

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	**0.03156**	0.32940	0.06480	**0.16032**	2.50740	0.30000	**0.57499**

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	**-0.01790**	1.26300	1.26300	**-0.08905**	2.50740	2.50740	**-0.11417**
	setup	CLK (R)	0.01860	0.01860	**0.03291**	1.26300	1.26300	**0.13762**	2.50740	2.50740	**0.19121**

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	**-0.02877**	1.26300	1.26300	**-0.16190**	2.50740	2.50740	**-0.27179**
	setup	CLK (R)	0.01860	0.01860	**0.04563**	1.26300	1.26300	**0.18889**	2.50740	2.50740	**0.33556**

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	**-0.02010**	1.26300	1.26300	**-0.12143**	2.50740	2.50740	**-0.18797**
	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	**-0.02847**	1.26300	1.26300	**-0.11333**	2.50740	2.50740	**-0.18194**
	setup	CLK (R)	0.01860	0.01860	**0.04884**	1.26300	1.26300	**0.18079**	2.50740	2.50740	**0.31231**

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	**0.02418**	0.32940	0.06480	**0.03227**	2.50740	0.30000	**0.11814**

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	**0.01707**	0.32940	0.06480	**0.02727**	2.50740	0.30000	**0.11272**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.03466**	0.32940	**0.04527**	2.50740	**0.12784**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.02024**	0.32940	**0.06640**	2.50740	**0.14829**

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	**0.03466**	0.32940	**0.04527**	2.50740	**0.12784**

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	**0.02024**	0.32940	**0.06640**	2.50740	**0.14829**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.01638**	0.32940	**0.02548**	2.50740	**0.11236**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.02147**	0.32940	**0.06470**	2.50740	**0.14857**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00725**	0.32940	**0.01963**	2.50740	**0.12615**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_slgcp_1	0.01860	**0.00858**	0.32940	**0.02151**	2.50740	**0.12864**

TIE0

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	1134.26000	1134.26000	1134.26000

TIE1

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	977.89400	977.89400	977.89400

XNOR2_1

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00643	0.00556	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	683.65600	1834.60000	2725.61000

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	**0.03627**	0.32940	0.06480	**0.16398**	2.50740	0.30000	**0.59208**
	A->Y (FR)	0.01860	0.00100	**0.02682**	0.32940	0.06480	**0.27027**	2.50740	0.30000	**1.36479**
	B->Y (RR)	0.01860	0.00100	**0.03400**	0.32940	0.06480	**0.17194**	2.50740	0.30000	**0.64508**
	B->Y (FR)	0.01860	0.00100	**0.02411**	0.32940	0.06480	**0.30215**	2.50740	0.30000	**1.60461**

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	**0.03659**	0.32940	0.06480	**0.21744**	2.50740	0.30000	**0.82045**
	A->Y (RF)	0.01860	0.00100	**0.02470**	0.32940	0.06480	**0.23595**	2.50740	0.30000	**1.21213**
	B->Y (FF)	0.01860	0.00100	**0.03665**	0.32940	0.06480	**0.20867**	2.50740	0.30000	**0.77089**
	B->Y (RF)	0.01860	0.00100	**0.02044**	0.32940	0.06480	**0.23043**	2.50740	0.30000	**1.19640**

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	**0.01538**	0.32940	0.06480	**0.02388**	2.50740	0.30000	**0.11088**
	B	0.01860	0.00100	**0.01523**	0.32940	0.06480	**0.02395**	2.50740	0.30000	**0.10789**

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	**0.01329**	0.32940	0.06480	**0.02357**	2.50740	0.30000	**0.11040**
	B	0.01860	0.00100	**0.01420**	0.32940	0.06480	**0.02202**	2.50740	0.30000	**0.10661**

XOR2_1

sg13g2_stdcell_fast_1p65V_m40C Cell Library: Process sg13g2_stdcell_fast_1p65V_m40C, Voltage 1.65, 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	0.00664	0.00574	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	1083.25000	1605.39000	2318.26000

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	**0.03662**	0.32940	0.06480	**0.25367**	2.50740	0.30000	**0.98377**
	A->X (FR)	0.01860	0.00100	**0.02950**	0.32940	0.06480	**0.27369**	2.50740	0.30000	**1.37209**
	B->X (RR)	0.01860	0.00100	**0.03747**	0.32940	0.06480	**0.24319**	2.50740	0.30000	**0.91594**
	B->X (FR)	0.01860	0.00100	**0.02470**	0.32940	0.06480	**0.26819**	2.50740	0.30000	**1.35950**

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	**0.04112**	0.32940	0.06480	**0.15998**	2.50740	0.30000	**0.55259**
	A->X (RF)	0.01860	0.00100	**0.02335**	0.32940	0.06480	**0.23424**	2.50740	0.30000	**1.20383**
	B->X (FF)	0.01860	0.00100	**0.03839**	0.32940	0.06480	**0.17093**	2.50740	0.30000	**0.61694**
	B->X (RF)	0.01860	0.00100	**0.02109**	0.32940	0.06480	**0.26185**	2.50740	0.30000	**1.39952**

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	**0.01316**	0.32940	0.06480	**0.02250**	2.50740	0.30000	**0.10912**
	B	0.01860	0.00100	**0.01406**	0.32940	0.06480	**0.02149**	2.50740	0.30000	**0.10521**

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	**0.01676**	0.32940	0.06480	**0.02519**	2.50740	0.30000	**0.10998**
	B	0.01860	0.00100	**0.01529**	0.32940	0.06480	**0.02482**	2.50740	0.30000	**0.10567**