sg13g2_stdcell_slow_1p08V_125C Library

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

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

A21OIx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21oi_1	9.07200
sg13g2_a21oi_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_a21oi_1	0.00282	0.00283	0.00272	0.30000
sg13g2_a21oi_2	0.00543	0.00564	0.00532	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_1	180.60800	439.03600	1020.77000
sg13g2_a21oi_2	361.19900	878.05300	2041.52000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.06946**	0.32940	0.06480	**0.78669**	2.50740	0.30000	**3.79911**
	A2->Y (FR)	0.01860	0.00100	**0.08093**	0.32940	0.06480	**0.79997**	2.50740	0.30000	**3.81668**
	B1->Y (FR)	0.01860	0.00100	**0.06558**	0.32940	0.06480	**0.79976**	2.50740	0.30000	**3.98811**
sg13g2_a21oi_2	A1->Y (FR)	0.01860	0.00100	**0.06259**	0.32940	0.12960	**0.78671**	2.50740	0.60000	**3.80445**
	A2->Y (FR)	0.01860	0.00100	**0.07451**	0.32940	0.12960	**0.79854**	2.50740	0.60000	**3.81446**
	B1->Y (FR)	0.01860	0.00100	**0.05895**	0.32940	0.12960	**0.79837**	2.50740	0.60000	**3.98537**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.05950**	0.32940	0.06480	**0.66856**	2.50740	0.30000	**3.43242**
	A2->Y (RF)	0.01860	0.00100	**0.06610**	0.32940	0.06480	**0.66195**	2.50740	0.30000	**3.31278**
	B1->Y (RF)	0.01860	0.00100	**0.03078**	0.32940	0.06480	**0.46495**	2.50740	0.30000	**2.59177**
sg13g2_a21oi_2	A1->Y (RF)	0.01860	0.00100	**0.05379**	0.32940	0.12960	**0.66752**	2.50740	0.60000	**3.43307**
	A2->Y (RF)	0.01860	0.00100	**0.06094**	0.32940	0.12960	**0.66148**	2.50740	0.60000	**3.31310**
	B1->Y (RF)	0.01860	0.00100	**0.02744**	0.32940	0.12960	**0.46372**	2.50740	0.60000	**2.58927**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.06558**	0.32940	0.06480	**0.79976**	2.50740	0.30000	**3.98811**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.05161**	0.32940	0.06480	**0.78372**	2.50740	0.30000	**3.96722**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.04128**	0.32940	0.06480	**0.63383**	2.50740	0.30000	**3.32555**
sg13g2_a21oi_2	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.05895**	0.32940	0.12960	**0.79837**	2.50740	0.60000	**3.98537**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.04463**	0.32940	0.12960	**0.78430**	2.50740	0.60000	**3.97503**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.03613**	0.32940	0.12960	**0.63341**	2.50740	0.60000	**3.32775**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.03078**	0.32940	0.06480	**0.46495**	2.50740	0.30000	**2.59177**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.03052**	0.32940	0.06480	**0.46434**	2.50740	0.30000	**2.58940**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.03027**	0.32940	0.06480	**0.46386**	2.50740	0.30000	**2.58911**
sg13g2_a21oi_2	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02744**	0.32940	0.12960	**0.46372**	2.50740	0.60000	**2.58927**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02718**	0.32940	0.12960	**0.46307**	2.50740	0.60000	**2.58688**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.02692**	0.32940	0.12960	**0.46259**	2.50740	0.60000	**2.58678**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00354**	0.32940	0.06480	**0.00349**	2.50740	0.30000	**0.00357**
	A2	0.01860	0.00100	**0.00374**	0.32940	0.06480	**0.00359**	2.50740	0.30000	**0.00382**
	B1	0.01860	0.00100	**0.00187**	0.32940	0.06480	**0.00192**	2.50740	0.30000	**0.00204**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.00706**	0.32940	0.12960	**0.00705**	2.50740	0.60000	**0.00720**
	A2	0.01860	0.00100	**0.00754**	0.32940	0.12960	**0.00732**	2.50740	0.60000	**0.00746**
	B1	0.01860	0.00100	**0.00365**	0.32940	0.12960	**0.00377**	2.50740	0.60000	**0.00418**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00276**	0.32940	0.06480	**0.00250**	2.50740	0.30000	**0.00239**
	A2	0.01860	0.00100	**0.00393**	0.32940	0.06480	**0.00369**	2.50740	0.30000	**0.00345**
	B1	0.01860	0.00100	**0.00157**	0.32940	0.06480	**0.00164**	2.50740	0.30000	**0.00141**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.00493**	0.32940	0.12960	**0.00445**	2.50740	0.60000	**0.00422**
	A2	0.01860	0.00100	**0.00742**	0.32940	0.12960	**0.00696**	2.50740	0.60000	**0.00639**
	B1	0.01860	0.00100	**0.00247**	0.32940	0.12960	**0.00276**	2.50740	0.60000	**0.00243**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00216**	0.32940	0.06480	**0.00213**	2.50740	0.30000	**0.00228**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00187**	0.32940	0.06480	**0.00188**	2.50740	0.30000	**0.00204**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00187**	0.32940	0.06480	**0.00192**	2.50740	0.30000	**0.00204**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00443**	0.32940	0.12960	**0.00440**	2.50740	0.60000	**0.00471**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00366**	0.32940	0.12960	**0.00381**	2.50740	0.60000	**0.00394**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00365**	0.32940	0.12960	**0.00377**	2.50740	0.60000	**0.00418**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00278**	0.32940	0.06480	**0.00286**	2.50740	0.30000	**0.00263**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00157**	0.32940	0.06480	**0.00164**	2.50740	0.30000	**0.00141**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00152**	0.32940	0.06480	**0.00156**	2.50740	0.30000	**0.00142**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00490**	0.32940	0.12960	**0.00519**	2.50740	0.60000	**0.00475**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00247**	0.32940	0.12960	**0.00276**	2.50740	0.60000	**0.00243**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00238**	0.32940	0.12960	**0.00261**	2.50740	0.60000	**0.00232**

A21Ox

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21o_1	12.70080
sg13g2_a21o_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_1	0.00253	0.00260	0.00246	0.30000
sg13g2_a21o_2	0.00271	0.00268	0.00257	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	412.48300	650.17300	1047.70000
sg13g2_a21o_2	549.67600	929.31200	1228.44000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.12643**	0.32940	0.06480	**0.54662**	2.50740	0.30000	**1.91815**
	A2->X (RR)	0.01860	0.00100	**0.13233**	0.32940	0.06480	**0.55056**	2.50740	0.30000	**1.94091**
	B1->X (RR)	0.01860	0.00100	**0.07938**	0.32940	0.06480	**0.48665**	2.50740	0.30000	**1.81820**
sg13g2_a21o_2	A1->X (RR)	0.01860	0.00100	**0.13455**	0.32940	0.12960	**0.57327**	2.50740	0.60000	**1.97124**
	A2->X (RR)	0.01860	0.00100	**0.14034**	0.32940	0.12960	**0.57458**	2.50740	0.60000	**1.98616**
	B1->X (RR)	0.01860	0.00100	**0.08377**	0.32940	0.12960	**0.51041**	2.50740	0.60000	**1.86927**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.14032**	0.32940	0.06480	**0.51359**	2.50740	0.30000	**1.66841**
	A2->X (FF)	0.01860	0.00100	**0.15225**	0.32940	0.06480	**0.53249**	2.50740	0.30000	**1.71177**
	B1->X (FF)	0.01860	0.00100	**0.13744**	0.32940	0.06480	**0.51781**	2.50740	0.30000	**1.69801**
sg13g2_a21o_2	A1->X (FF)	0.01860	0.00100	**0.17641**	0.32940	0.12960	**0.57862**	2.50740	0.60000	**1.80988**
	A2->X (FF)	0.01860	0.00100	**0.18991**	0.32940	0.12960	**0.59905**	2.50740	0.60000	**1.85488**
	B1->X (FF)	0.01860	0.00100	**0.17594**	0.32940	0.12960	**0.59092**	2.50740	0.60000	**1.86756**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	!B1	0.01860	0.00100	**0.12643**	0.32940	0.06480	**0.54662**	2.50740	0.30000	**1.91815**
	A2->X (RR)	!B1	0.01860	0.00100	**0.13233**	0.32940	0.06480	**0.55056**	2.50740	0.30000	**1.94091**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.07938**	0.32940	0.06480	**0.48665**	2.50740	0.30000	**1.81820**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.07436**	0.32940	0.06480	**0.47199**	2.50740	0.30000	**1.76295**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.07411**	0.32940	0.06480	**0.47222**	2.50740	0.30000	**1.76677**
sg13g2_a21o_2	A1->X (RR)	!B1	0.01860	0.00100	**0.13455**	0.32940	0.12960	**0.57327**	2.50740	0.60000	**1.97124**
	A2->X (RR)	!B1	0.01860	0.00100	**0.14034**	0.32940	0.12960	**0.57458**	2.50740	0.60000	**1.98616**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.08377**	0.32940	0.12960	**0.51041**	2.50740	0.60000	**1.86927**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.08005**	0.32940	0.12960	**0.49741**	2.50740	0.60000	**1.82092**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.07994**	0.32940	0.12960	**0.49670**	2.50740	0.60000	**1.82395**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	!B1	0.01860	0.00100	**0.14032**	0.32940	0.06480	**0.51359**	2.50740	0.30000	**1.66841**
	A2->X (FF)	!B1	0.01860	0.00100	**0.15225**	0.32940	0.06480	**0.53249**	2.50740	0.30000	**1.71177**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.13744**	0.32940	0.06480	**0.51781**	2.50740	0.30000	**1.69801**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.12274**	0.32940	0.06480	**0.49537**	2.50740	0.30000	**1.63967**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.09998**	0.32940	0.06480	**0.46626**	2.50740	0.30000	**1.59400**
sg13g2_a21o_2	A1->X (FF)	!B1	0.01860	0.00100	**0.17641**	0.32940	0.12960	**0.57862**	2.50740	0.60000	**1.80988**
	A2->X (FF)	!B1	0.01860	0.00100	**0.18991**	0.32940	0.12960	**0.59905**	2.50740	0.60000	**1.85488**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.17594**	0.32940	0.12960	**0.59092**	2.50740	0.60000	**1.86756**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.15894**	0.32940	0.12960	**0.56780**	2.50740	0.60000	**1.81039**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.12665**	0.32940	0.12960	**0.52662**	2.50740	0.60000	**1.74935**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00591**	0.32940	0.06480	**0.00590**	2.50740	0.30000	**0.00741**
	A2	0.01860	0.00100	**0.00694**	0.32940	0.06480	**0.00700**	2.50740	0.30000	**0.00790**
	B1	0.01860	0.00100	**0.00502**	0.32940	0.06480	**0.00501**	2.50740	0.30000	**0.00668**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.00890**	0.32940	0.12960	**0.00925**	2.50740	0.60000	**0.01051**
	A2	0.01860	0.00100	**0.01004**	0.32940	0.12960	**0.01061**	2.50740	0.60000	**0.01108**
	B1	0.01860	0.00100	**0.00801**	0.32940	0.12960	**0.00836**	2.50740	0.60000	**0.00916**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00653**	0.32940	0.06480	**0.00659**	2.50740	0.30000	**0.00761**
	A2	0.01860	0.00100	**0.00651**	0.32940	0.06480	**0.00668**	2.50740	0.30000	**0.00765**
	B1	0.01860	0.00100	**0.00514**	0.32940	0.06480	**0.00523**	2.50740	0.30000	**0.00718**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.00941**	0.32940	0.12960	**0.00977**	2.50740	0.60000	**0.01015**
	A2	0.01860	0.00100	**0.00944**	0.32940	0.12960	**0.00997**	2.50740	0.60000	**0.01050**
	B1	0.01860	0.00100	**0.00798**	0.32940	0.12960	**0.00840**	2.50740	0.60000	**0.00970**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.00591**	0.32940	0.06480	**0.00590**	2.50740	0.30000	**0.00741**
	A2	!B1	0.01860	0.00100	**0.00694**	0.32940	0.06480	**0.00700**	2.50740	0.30000	**0.00790**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00608**	0.32940	0.06480	**0.00607**	2.50740	0.30000	**0.00806**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00502**	0.32940	0.06480	**0.00501**	2.50740	0.30000	**0.00668**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00499**	0.32940	0.06480	**0.00495**	2.50740	0.30000	**0.00676**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.00890**	0.32940	0.12960	**0.00925**	2.50740	0.60000	**0.01051**
	A2	!B1	0.01860	0.00100	**0.01004**	0.32940	0.12960	**0.01061**	2.50740	0.60000	**0.01108**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00923**	0.32940	0.12960	**0.00962**	2.50740	0.60000	**0.01115**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00801**	0.32940	0.12960	**0.00836**	2.50740	0.60000	**0.00916**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00798**	0.32940	0.12960	**0.00827**	2.50740	0.60000	**0.00935**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.00653**	0.32940	0.06480	**0.00659**	2.50740	0.30000	**0.00761**
	A2	!B1	0.01860	0.00100	**0.00651**	0.32940	0.06480	**0.00668**	2.50740	0.30000	**0.00765**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00519**	0.32940	0.06480	**0.00528**	2.50740	0.30000	**0.00716**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00507**	0.32940	0.06480	**0.00521**	2.50740	0.30000	**0.00684**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00514**	0.32940	0.06480	**0.00523**	2.50740	0.30000	**0.00718**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.00941**	0.32940	0.12960	**0.00977**	2.50740	0.60000	**0.01015**
	A2	!B1	0.01860	0.00100	**0.00944**	0.32940	0.12960	**0.00997**	2.50740	0.60000	**0.01050**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00814**	0.32940	0.12960	**0.00850**	2.50740	0.60000	**0.01049**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00798**	0.32940	0.12960	**0.00840**	2.50740	0.60000	**0.00970**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00797**	0.32940	0.12960	**0.00834**	2.50740	0.60000	**0.00982**

A221OI

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00278	0.00278	0.00274	0.00281	0.00270	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	226.42400	593.99900	1387.73000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (FR)	0.01860	0.00100	**0.16208**	0.32940	0.06480	**1.16964**	2.50740	0.30000	**5.08197**
	A2->Y (FR)	0.01860	0.00100	**0.17948**	0.32940	0.06480	**1.18754**	2.50740	0.30000	**5.09687**
	B1->Y (FR)	0.01860	0.00100	**0.14589**	0.32940	0.06480	**1.15743**	2.50740	0.30000	**5.23612**
	B2->Y (FR)	0.01860	0.00100	**0.16316**	0.32940	0.06480	**1.17506**	2.50740	0.30000	**5.25056**
	C1->Y (FR)	0.01860	0.00100	**0.09310**	0.32940	0.06480	**0.96591**	2.50740	0.30000	**4.64130**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (RF)	0.01860	0.00100	**0.07933**	0.32940	0.06480	**0.70073**	2.50740	0.30000	**3.47320**
	A2->Y (RF)	0.01860	0.00100	**0.08562**	0.32940	0.06480	**0.69403**	2.50740	0.30000	**3.35362**
	B1->Y (RF)	0.01860	0.00100	**0.06939**	0.32940	0.06480	**0.68006**	2.50740	0.30000	**3.45057**
	B2->Y (RF)	0.01860	0.00100	**0.07603**	0.32940	0.06480	**0.67348**	2.50740	0.30000	**3.33041**
	C1->Y (RF)	0.01860	0.00100	**0.03536**	0.32940	0.06480	**0.46945**	2.50740	0.30000	**2.59673**

Delay(ns) to Y rising (conditional):

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

sg13g2_a221oi_1	**A1->Y (FR)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.16208**	0.32940	0.06480	**1.16964**	2.50740	0.30000	**5.08197**
	A1->Y (FR)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.14089**	0.32940	0.06480	**1.14809**	2.50740	0.30000	**5.06447**
	A1->Y (FR)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.12502**	0.32940	0.06480	**0.98855**	2.50740	0.30000	**4.43581**
	A2->Y (FR)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.17948**	0.32940	0.06480	**1.18754**	2.50740	0.30000	**5.09687**
	A2->Y (FR)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.15832**	0.32940	0.06480	**1.16595**	2.50740	0.30000	**5.08010**
	A2->Y (FR)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.13916**	0.32940	0.06480	**1.00318**	2.50740	0.30000	**4.44699**
	B1->Y (FR)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.14589**	0.32940	0.06480	**1.15743**	2.50740	0.30000	**5.23612**
	B1->Y (FR)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.12466**	0.32940	0.06480	**1.13557**	2.50740	0.30000	**5.21615**
	B1->Y (FR)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.10311**	0.32940	0.06480	**0.96645**	2.50740	0.30000	**4.51298**
	B2->Y (FR)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.16316**	0.32940	0.06480	**1.17506**	2.50740	0.30000	**5.25056**
	B2->Y (FR)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.14219**	0.32940	0.06480	**1.15286**	2.50740	0.30000	**5.23123**
	B2->Y (FR)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.11720**	0.32940	0.06480	**0.98055**	2.50740	0.30000	**4.52366**
	C1->Y (FR)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.08877**	0.32940	0.06480	**0.96190**	2.50740	0.30000	**4.63579**
	C1->Y (FR)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.07106**	0.32940	0.06480	**0.94381**	2.50740	0.30000	**4.62034**
	C1->Y (FR)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.09310**	0.32940	0.06480	**0.96591**	2.50740	0.30000	**4.64130**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.07551**	0.32940	0.06480	**0.94878**	2.50740	0.30000	**4.62968**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.06164**	0.32940	0.06480	**0.79071**	2.50740	0.30000	**3.97067**

Delay(ns) to Y falling (conditional):

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

sg13g2_a221oi_1	**A1->Y (RF)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.07677**	0.32940	0.06480	**0.69751**	2.50740	0.30000	**3.47239**
	A1->Y (RF)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.07606**	0.32940	0.06480	**0.69605**	2.50740	0.30000	**3.46796**
	A1->Y (RF)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.07933**	0.32940	0.06480	**0.70073**	2.50740	0.30000	**3.47320**
	A2->Y (RF)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.08307**	0.32940	0.06480	**0.69073**	2.50740	0.30000	**3.35244**
	A2->Y (RF)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.08236**	0.32940	0.06480	**0.68918**	2.50740	0.30000	**3.34811**
	A2->Y (RF)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.08562**	0.32940	0.06480	**0.69403**	2.50740	0.30000	**3.35362**
	B1->Y (RF)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.06939**	0.32940	0.06480	**0.68006**	2.50740	0.30000	**3.45057**
	B1->Y (RF)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.06884**	0.32940	0.06480	**0.67857**	2.50740	0.30000	**3.44564**
	B1->Y (RF)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.06850**	0.32940	0.06480	**0.67781**	2.50740	0.30000	**3.44527**
	B2->Y (RF)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.07603**	0.32940	0.06480	**0.67348**	2.50740	0.30000	**3.33041**
	B2->Y (RF)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.07544**	0.32940	0.06480	**0.67204**	2.50740	0.30000	**3.32615**
	B2->Y (RF)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.07508**	0.32940	0.06480	**0.67121**	2.50740	0.30000	**3.32581**
	C1->Y (RF)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.03518**	0.32940	0.06480	**0.46942**	2.50740	0.30000	**2.59673**
	C1->Y (RF)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.03494**	0.32940	0.06480	**0.46879**	2.50740	0.30000	**2.59441**
	C1->Y (RF)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.03536**	0.32940	0.06480	**0.46945**	2.50740	0.30000	**2.59673**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.03513**	0.32940	0.06480	**0.46884**	2.50740	0.30000	**2.59441**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.03493**	0.32940	0.06480	**0.46852**	2.50740	0.30000	**2.59419**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.00648**	0.32940	0.06480	**0.00639**	2.50740	0.30000	**0.00634**
	A2	0.01860	0.00100	**0.00662**	0.32940	0.06480	**0.00653**	2.50740	0.30000	**0.00648**
	B1	0.01860	0.00100	**0.00493**	0.32940	0.06480	**0.00484**	2.50740	0.30000	**0.00471**
	B2	0.01860	0.00100	**0.00504**	0.32940	0.06480	**0.00486**	2.50740	0.30000	**0.00475**
	C1	0.01860	0.00100	**0.00324**	0.32940	0.06480	**0.00321**	2.50740	0.30000	**0.00342**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.00426**	0.32940	0.06480	**0.00399**	2.50740	0.30000	**0.00378**
	A2	0.01860	0.00100	**0.00540**	0.32940	0.06480	**0.00512**	2.50740	0.30000	**0.00484**
	B1	0.01860	0.00100	**0.00285**	0.32940	0.06480	**0.00266**	2.50740	0.30000	**0.00248**
	B2	0.01860	0.00100	**0.00405**	0.32940	0.06480	**0.00386**	2.50740	0.30000	**0.00360**
	C1	0.01860	0.00100	**0.00165**	0.32940	0.06480	**0.00169**	2.50740	0.30000	**0.00146**

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

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

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00648**	0.32940	0.06480	**0.00639**	2.50740	0.30000	**0.00634**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00623**	0.32940	0.06480	**0.00610**	2.50740	0.30000	**0.00615**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00759**	0.32940	0.06480	**0.00753**	2.50740	0.30000	**0.00758**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00662**	0.32940	0.06480	**0.00653**	2.50740	0.30000	**0.00648**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00639**	0.32940	0.06480	**0.00626**	2.50740	0.30000	**0.00634**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00775**	0.32940	0.06480	**0.00755**	2.50740	0.30000	**0.00762**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00516**	0.32940	0.06480	**0.00500**	2.50740	0.30000	**0.00495**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.00491**	0.32940	0.06480	**0.00480**	2.50740	0.30000	**0.00487**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00493**	0.32940	0.06480	**0.00484**	2.50740	0.30000	**0.00471**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00526**	0.32940	0.06480	**0.00508**	2.50740	0.30000	**0.00481**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.00504**	0.32940	0.06480	**0.00487**	2.50740	0.30000	**0.00484**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00504**	0.32940	0.06480	**0.00486**	2.50740	0.30000	**0.00475**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00352**	0.32940	0.06480	**0.00345**	2.50740	0.30000	**0.00338**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00324**	0.32940	0.06480	**0.00318**	2.50740	0.30000	**0.00322**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00353**	0.32940	0.06480	**0.00344**	2.50740	0.30000	**0.00324**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00325**	0.32940	0.06480	**0.00317**	2.50740	0.30000	**0.00332**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00324**	0.32940	0.06480	**0.00321**	2.50740	0.30000	**0.00342**

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

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

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00548**	0.32940	0.06480	**0.00517**	2.50740	0.30000	**0.00496**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00426**	0.32940	0.06480	**0.00399**	2.50740	0.30000	**0.00378**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00357**	0.32940	0.06480	**0.00328**	2.50740	0.30000	**0.00307**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00662**	0.32940	0.06480	**0.00634**	2.50740	0.30000	**0.00603**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00540**	0.32940	0.06480	**0.00512**	2.50740	0.30000	**0.00484**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00471**	0.32940	0.06480	**0.00446**	2.50740	0.30000	**0.00416**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00406**	0.32940	0.06480	**0.00389**	2.50740	0.30000	**0.00366**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.00285**	0.32940	0.06480	**0.00266**	2.50740	0.30000	**0.00248**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00282**	0.32940	0.06480	**0.00258**	2.50740	0.30000	**0.00244**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00527**	0.32940	0.06480	**0.00509**	2.50740	0.30000	**0.00481**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.00405**	0.32940	0.06480	**0.00386**	2.50740	0.30000	**0.00360**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00402**	0.32940	0.06480	**0.00379**	2.50740	0.30000	**0.00356**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00283**	0.32940	0.06480	**0.00289**	2.50740	0.30000	**0.00271**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00162**	0.32940	0.06480	**0.00168**	2.50740	0.30000	**0.00147**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00286**	0.32940	0.06480	**0.00291**	2.50740	0.30000	**0.00271**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00165**	0.32940	0.06480	**0.00169**	2.50740	0.30000	**0.00146**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00161**	0.32940	0.06480	**0.00163**	2.50740	0.30000	**0.00147**

A22OI

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a22oi_1	10.84860

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A1	A2	B1	B2	Y
sg13g2_a22oi_1	0.00292	0.00288	0.00285	0.00286	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	90.97960	562.89000	1261.31000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	0.01860	0.00100	**0.08108**	0.32940	0.06480	**0.79964**	2.50740	0.30000	**3.81230**
	A2->Y (FR)	0.01860	0.00100	**0.09141**	0.32940	0.06480	**0.81002**	2.50740	0.30000	**3.82034**
	B1->Y (FR)	0.01860	0.00100	**0.08510**	0.32940	0.06480	**0.81826**	2.50740	0.30000	**4.00365**
	B2->Y (FR)	0.01860	0.00100	**0.07340**	0.32940	0.06480	**0.80453**	2.50740	0.30000	**3.98457**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	0.01860	0.00100	**0.06799**	0.32940	0.06480	**0.67827**	2.50740	0.30000	**3.44316**
	A2->Y (RF)	0.01860	0.00100	**0.07396**	0.32940	0.06480	**0.67088**	2.50740	0.30000	**3.32166**
	B1->Y (RF)	0.01860	0.00100	**0.05885**	0.32940	0.06480	**0.65181**	2.50740	0.30000	**3.30338**
	B2->Y (RF)	0.01860	0.00100	**0.05147**	0.32940	0.06480	**0.65833**	2.50740	0.30000	**3.42337**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	(A2 * B1)	0.01860	0.00100	**0.08108**	0.32940	0.06480	**0.79964**	2.50740	0.30000	**3.81230**
	A2->Y (FR)	(A1 * B1)	0.01860	0.00100	**0.09141**	0.32940	0.06480	**0.81002**	2.50740	0.30000	**3.82034**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.08510**	0.32940	0.06480	**0.81826**	2.50740	0.30000	**4.00365**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.07196**	0.32940	0.06480	**0.80271**	2.50740	0.30000	**3.98308**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.07340**	0.32940	0.06480	**0.80453**	2.50740	0.30000	**3.98457**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.06017**	0.32940	0.06480	**0.79182**	2.50740	0.30000	**3.97607**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	(A2 * B1)	0.01860	0.00100	**0.06799**	0.32940	0.06480	**0.67827**	2.50740	0.30000	**3.44316**
	A2->Y (RF)	(A1 * B1)	0.01860	0.00100	**0.07396**	0.32940	0.06480	**0.67088**	2.50740	0.30000	**3.32166**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.05885**	0.32940	0.06480	**0.65181**	2.50740	0.30000	**3.30338**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.05838**	0.32940	0.06480	**0.65038**	2.50740	0.30000	**3.29901**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.05147**	0.32940	0.06480	**0.65833**	2.50740	0.30000	**3.42337**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.05100**	0.32940	0.06480	**0.65682**	2.50740	0.30000	**3.41877**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00380**	0.32940	0.06480	**0.00374**	2.50740	0.30000	**0.00401**
	A2	0.01860	0.00100	**0.00391**	0.32940	0.06480	**0.00380**	2.50740	0.30000	**0.00393**
	B1	0.01860	0.00100	**0.00263**	0.32940	0.06480	**0.00245**	2.50740	0.30000	**0.00250**
	B2	0.01860	0.00100	**0.00244**	0.32940	0.06480	**0.00238**	2.50740	0.30000	**0.00232**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00405**	0.32940	0.06480	**0.00378**	2.50740	0.30000	**0.00362**
	A2	0.01860	0.00100	**0.00518**	0.32940	0.06480	**0.00494**	2.50740	0.30000	**0.00468**
	B1	0.01860	0.00100	**0.00475**	0.32940	0.06480	**0.00468**	2.50740	0.30000	**0.00444**
	B2	0.01860	0.00100	**0.00352**	0.32940	0.06480	**0.00351**	2.50740	0.30000	**0.00331**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00380**	0.32940	0.06480	**0.00374**	2.50740	0.30000	**0.00401**
	A2	(A1 * B1)	0.01860	0.00100	**0.00391**	0.32940	0.06480	**0.00380**	2.50740	0.30000	**0.00393**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00263**	0.32940	0.06480	**0.00245**	2.50740	0.30000	**0.00250**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00247**	0.32940	0.06480	**0.00237**	2.50740	0.30000	**0.00235**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00244**	0.32940	0.06480	**0.00238**	2.50740	0.30000	**0.00232**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00223**	0.32940	0.06480	**0.00223**	2.50740	0.30000	**0.00225**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00405**	0.32940	0.06480	**0.00378**	2.50740	0.30000	**0.00362**
	A2	(A1 * B1)	0.01860	0.00100	**0.00518**	0.32940	0.06480	**0.00494**	2.50740	0.30000	**0.00468**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00475**	0.32940	0.06480	**0.00468**	2.50740	0.30000	**0.00444**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00352**	0.32940	0.06480	**0.00349**	2.50740	0.30000	**0.00323**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00352**	0.32940	0.06480	**0.00351**	2.50740	0.30000	**0.00331**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00230**	0.32940	0.06480	**0.00230**	2.50740	0.30000	**0.00216**

AND2x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and2_1	9.07200
sg13g2_and2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_1	0.00238	0.00237	0.30000
sg13g2_and2_2	0.00239	0.00239	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	514.62900	635.37000	854.87300
sg13g2_and2_2	989.94900	1027.41000	1069.65000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.10276**	0.32940	0.06480	**0.50576**	2.50740	0.30000	**1.81223**
	B->X (RR)	0.01860	0.00100	**0.10994**	0.32940	0.06480	**0.51504**	2.50740	0.30000	**1.84330**
sg13g2_and2_2	A->X (RR)	0.01860	0.00100	**0.12785**	0.32940	0.12960	**0.56434**	2.50740	0.60000	**1.95095**
	B->X (RR)	0.01860	0.00100	**0.13476**	0.32940	0.12960	**0.56766**	2.50740	0.60000	**1.96804**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.08403**	0.32940	0.06480	**0.45084**	2.50740	0.30000	**1.59035**
	B->X (FF)	0.01860	0.00100	**0.09137**	0.32940	0.06480	**0.46804**	2.50740	0.30000	**1.64218**
sg13g2_and2_2	A->X (FF)	0.01860	0.00100	**0.10375**	0.32940	0.12960	**0.50243**	2.50740	0.60000	**1.72866**
	B->X (FF)	0.01860	0.00100	**0.11073**	0.32940	0.12960	**0.51643**	2.50740	0.60000	**1.77255**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.00528**	0.32940	0.06480	**0.00533**	2.50740	0.30000	**0.00679**
	B	0.01860	0.00100	**0.00629**	0.32940	0.06480	**0.00634**	2.50740	0.30000	**0.00729**
sg13g2_and2_2	A	0.01860	0.00100	**0.00817**	0.32940	0.12960	**0.00864**	2.50740	0.60000	**0.00907**
	B	0.01860	0.00100	**0.00919**	0.32940	0.12960	**0.00975**	2.50740	0.60000	**0.00955**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.00459**	0.32940	0.06480	**0.00459**	2.50740	0.30000	**0.00612**
	B	0.01860	0.00100	**0.00472**	0.32940	0.06480	**0.00480**	2.50740	0.30000	**0.00645**
sg13g2_and2_2	A	0.01860	0.00100	**0.00735**	0.32940	0.12960	**0.00765**	2.50740	0.60000	**0.00852**
	B	0.01860	0.00100	**0.00745**	0.32940	0.12960	**0.00781**	2.50740	0.60000	**0.00934**

AND3x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and3_1	12.70080
sg13g2_and3_2	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_1	0.00238	0.00234	0.00235	0.30000
sg13g2_and3_2	0.00241	0.00236	0.00236	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	508.20000	629.02700	1214.68000
sg13g2_and3_2	985.88600	1063.90000	1349.75000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.14363**	0.32940	0.06480	**0.56096**	2.50740	0.30000	**1.90804**
	B->X (RR)	0.01860	0.00100	**0.15758**	0.32940	0.06480	**0.57714**	2.50740	0.30000	**1.94791**
	C->X (RR)	0.01860	0.00100	**0.16375**	0.32940	0.06480	**0.57737**	2.50740	0.30000	**1.93505**
sg13g2_and3_2	A->X (RR)	0.01860	0.00100	**0.17867**	0.32940	0.12960	**0.63373**	2.50740	0.60000	**2.06409**
	B->X (RR)	0.01860	0.00100	**0.19249**	0.32940	0.12960	**0.64581**	2.50740	0.60000	**2.09429**
	C->X (RR)	0.01860	0.00100	**0.19863**	0.32940	0.12960	**0.64304**	2.50740	0.60000	**2.06726**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.09063**	0.32940	0.06480	**0.46488**	2.50740	0.30000	**1.62343**
	B->X (FF)	0.01860	0.00100	**0.09838**	0.32940	0.06480	**0.48101**	2.50740	0.30000	**1.67421**
	C->X (FF)	0.01860	0.00100	**0.10351**	0.32940	0.06480	**0.49325**	2.50740	0.30000	**1.71155**
sg13g2_and3_2	A->X (FF)	0.01860	0.00100	**0.10938**	0.32940	0.12960	**0.51412**	2.50740	0.60000	**1.75618**
	B->X (FF)	0.01860	0.00100	**0.11693**	0.32940	0.12960	**0.52789**	2.50740	0.60000	**1.79781**
	C->X (FF)	0.01860	0.00100	**0.12240**	0.32940	0.12960	**0.53903**	2.50740	0.60000	**1.82964**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.00602**	0.32940	0.06480	**0.00606**	2.50740	0.30000	**0.00723**
	B	0.01860	0.00100	**0.00703**	0.32940	0.06480	**0.00714**	2.50740	0.30000	**0.00787**
	C	0.01860	0.00100	**0.00799**	0.32940	0.06480	**0.00812**	2.50740	0.30000	**0.00850**
sg13g2_and3_2	A	0.01860	0.00100	**0.00905**	0.32940	0.12960	**0.00943**	2.50740	0.60000	**0.01006**
	B	0.01860	0.00100	**0.01003**	0.32940	0.12960	**0.01041**	2.50740	0.60000	**0.01071**
	C	0.01860	0.00100	**0.01099**	0.32940	0.12960	**0.01149**	2.50740	0.60000	**0.01154**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.00467**	0.32940	0.06480	**0.00463**	2.50740	0.30000	**0.00612**
	B	0.01860	0.00100	**0.00485**	0.32940	0.06480	**0.00484**	2.50740	0.30000	**0.00640**
	C	0.01860	0.00100	**0.00499**	0.32940	0.06480	**0.00504**	2.50740	0.30000	**0.00651**
sg13g2_and3_2	A	0.01860	0.00100	**0.00742**	0.32940	0.12960	**0.00769**	2.50740	0.60000	**0.00850**
	B	0.01860	0.00100	**0.00755**	0.32940	0.12960	**0.00795**	2.50740	0.60000	**0.00915**
	C	0.01860	0.00100	**0.00768**	0.32940	0.12960	**0.00810**	2.50740	0.60000	**0.00909**

AND4x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and4_1	14.51520
sg13g2_and4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_1	0.00222	0.00233	0.00232	0.00233	0.30000
sg13g2_and4_2	0.00223	0.00233	0.00233	0.00233	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	508.40700	599.26800	1574.53000
sg13g2_and4_2	986.09600	1055.54000	1709.59000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.18492**	0.32940	0.06480	**0.61508**	2.50740	0.30000	**2.00110**
	B->X (RR)	0.01860	0.00100	**0.20627**	0.32940	0.06480	**0.63857**	2.50740	0.30000	**2.04086**
	C->X (RR)	0.01860	0.00100	**0.21891**	0.32940	0.06480	**0.64650**	2.50740	0.30000	**2.03776**
	D->X (RR)	0.01860	0.00100	**0.22526**	0.32940	0.06480	**0.65051**	2.50740	0.30000	**2.02090**
sg13g2_and4_2	A->X (RR)	0.01860	0.00100	**0.22987**	0.32940	0.12960	**0.70149**	2.50740	0.60000	**2.17216**
	B->X (RR)	0.01860	0.00100	**0.25094**	0.32940	0.12960	**0.72197**	2.50740	0.60000	**2.20403**
	C->X (RR)	0.01860	0.00100	**0.26362**	0.32940	0.12960	**0.72727**	2.50740	0.60000	**2.18401**
	D->X (RR)	0.01860	0.00100	**0.26981**	0.32940	0.12960	**0.73024**	2.50740	0.60000	**2.15649**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.09584**	0.32940	0.06480	**0.47316**	2.50740	0.30000	**1.63743**
	B->X (FF)	0.01860	0.00100	**0.10385**	0.32940	0.06480	**0.48881**	2.50740	0.30000	**1.68671**
	C->X (FF)	0.01860	0.00100	**0.10974**	0.32940	0.06480	**0.50115**	2.50740	0.30000	**1.72248**
	D->X (FF)	0.01860	0.00100	**0.11345**	0.32940	0.06480	**0.51135**	2.50740	0.30000	**1.75589**
sg13g2_and4_2	A->X (FF)	0.01860	0.00100	**0.11374**	0.32940	0.12960	**0.52138**	2.50740	0.60000	**1.76828**
	B->X (FF)	0.01860	0.00100	**0.12158**	0.32940	0.12960	**0.53467**	2.50740	0.60000	**1.80896**
	C->X (FF)	0.01860	0.00100	**0.12765**	0.32940	0.12960	**0.54565**	2.50740	0.60000	**1.84299**
	D->X (FF)	0.01860	0.00100	**0.13176**	0.32940	0.12960	**0.55492**	2.50740	0.60000	**1.87381**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.00656**	0.32940	0.06480	**0.00659**	2.50740	0.30000	**0.00779**
	B	0.01860	0.00100	**0.00768**	0.32940	0.06480	**0.00781**	2.50740	0.30000	**0.00834**
	C	0.01860	0.00100	**0.00864**	0.32940	0.06480	**0.00876**	2.50740	0.30000	**0.00915**
	D	0.01860	0.00100	**0.00957**	0.32940	0.06480	**0.00962**	2.50740	0.30000	**0.00969**
sg13g2_and4_2	A	0.01860	0.00100	**0.00966**	0.32940	0.12960	**0.00970**	2.50740	0.60000	**0.01086**
	B	0.01860	0.00100	**0.01073**	0.32940	0.12960	**0.01090**	2.50740	0.60000	**0.01151**
	C	0.01860	0.00100	**0.01170**	0.32940	0.12960	**0.01185**	2.50740	0.60000	**0.01218**
	D	0.01860	0.00100	**0.01263**	0.32940	0.12960	**0.01284**	2.50740	0.60000	**0.01290**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.00494**	0.32940	0.06480	**0.00491**	2.50740	0.30000	**0.00616**
	B	0.01860	0.00100	**0.00506**	0.32940	0.06480	**0.00502**	2.50740	0.30000	**0.00650**
	C	0.01860	0.00100	**0.00523**	0.32940	0.06480	**0.00523**	2.50740	0.30000	**0.00675**
	D	0.01860	0.00100	**0.00541**	0.32940	0.06480	**0.00544**	2.50740	0.30000	**0.00678**
sg13g2_and4_2	A	0.01860	0.00100	**0.00768**	0.32940	0.12960	**0.00801**	2.50740	0.60000	**0.00877**
	B	0.01860	0.00100	**0.00778**	0.32940	0.12960	**0.00814**	2.50740	0.60000	**0.00936**
	C	0.01860	0.00100	**0.00797**	0.32940	0.12960	**0.00838**	2.50740	0.60000	**0.00925**
	D	0.01860	0.00100	**0.00813**	0.32940	0.12960	**0.00863**	2.50740	0.60000	**0.00951**

ANTENNANP

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	3.56270	3.56540	3.56810

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**-0.00025**	0.32940	**-0.00025**	2.50740	**-0.00025**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**0.00025**	0.32940	**0.00025**	2.50740	**0.00025**

BUFx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_buf_1	7.25760
sg13g2_buf_16	45.36000
sg13g2_buf_2	9.07200
sg13g2_buf_4	14.51520
sg13g2_buf_8	23.58720

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_1	0.00212	0.30000
sg13g2_buf_16	0.01592	4.80000
sg13g2_buf_2	0.00245	0.60000
sg13g2_buf_4	0.00346	1.20000
sg13g2_buf_8	0.00800	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_1	494.46400	531.71200	568.96000
sg13g2_buf_16	5028.76000	6741.44000	8454.12000
sg13g2_buf_2	697.53300	882.33700	1067.14000
sg13g2_buf_4	1257.51000	1653.20000	2048.90000
sg13g2_buf_8	2514.38000	3370.78000	4227.19000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.07442**	0.32940	0.06480	**0.47582**	2.50740	0.30000	**1.78402**
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.08307**	0.32940	1.03680	**0.51319**	2.50740	4.80000	**1.87814**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.08429**	0.32940	0.12960	**0.50816**	2.50740	0.60000	**1.87111**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.10818**	0.32940	0.25920	**0.55914**	2.50740	1.20000	**2.02420**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.08349**	0.32940	0.51840	**0.51240**	2.50740	2.40000	**1.87759**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.07816**	0.32940	0.06480	**0.43896**	2.50740	0.30000	**1.55167**
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.09257**	0.32940	1.03680	**0.48960**	2.50740	4.80000	**1.68955**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.09027**	0.32940	0.12960	**0.47658**	2.50740	0.60000	**1.65333**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.09177**	0.32940	0.25920	**0.48594**	2.50740	1.20000	**1.66701**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.09297**	0.32940	0.51840	**0.48999**	2.50740	2.40000	**1.69139**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00464**	0.32940	0.06480	**0.00465**	2.50740	0.30000	**0.00609**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.05798**	0.32940	1.03680	**0.06160**	2.50740	4.80000	**0.06576**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00774**	0.32940	0.12960	**0.00803**	2.50740	0.60000	**0.00883**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01407**	0.32940	0.25920	**0.01499**	2.50740	1.20000	**0.01607**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.02922**	0.32940	0.51840	**0.03069**	2.50740	2.40000	**0.03246**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00456**	0.32940	0.06480	**0.00461**	2.50740	0.30000	**0.00627**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.05602**	0.32940	1.03680	**0.06003**	2.50740	4.80000	**0.06924**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.00752**	0.32940	0.12960	**0.00792**	2.50740	0.60000	**0.00929**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.01422**	0.32940	0.25920	**0.01514**	2.50740	1.20000	**0.01636**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.02821**	0.32940	0.51840	**0.03020**	2.50740	2.40000	**0.03283**

DECAPx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	98.64300	98.64300	98.64300
sg13g2_decap_8	197.30100	197.30100	197.30100

DFRBPQx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbpq_1	48.98880
sg13g2_dfrbpq_2	50.80320

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	D	RESET_B	Q
sg13g2_dfrbpq_1	0.00259	0.00135	0.00474	0.30000
sg13g2_dfrbpq_2	0.00259	0.00135	0.00479	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbpq_1	2038.20000	2384.26000	2900.60000
sg13g2_dfrbpq_2	2492.35000	2715.21000	3354.76000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.24169**	0.32940	0.06480	**0.65640**	2.50740	0.30000	**2.01009**
sg13g2_dfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.25933**	0.32940	0.12960	**0.68285**	2.50740	0.60000	**2.03735**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.24080**	0.32940	0.06480	**0.61534**	2.50740	0.30000	**1.78851**
	RESET_B->Q (FF)	0.01860	0.00100	**0.34645**	0.32940	0.06480	**0.75338**	2.50740	0.30000	**2.13912**
sg13g2_dfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.25898**	0.32940	0.12960	**0.64506**	2.50740	0.60000	**1.81931**
	RESET_B->Q (FF)	0.01860	0.00100	**0.36264**	0.32940	0.12960	**0.78093**	2.50740	0.60000	**2.16616**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.14389**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.14389**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.21439**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.21439**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.28333**	2.50740	2.50740	**-0.37484**
	setup	**CLK (R)**	0.01860	0.01860	**0.19073**	1.26300	1.26300	**0.38856**	2.50740	2.50740	**0.50176**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.28333**	2.50740	2.50740	**-0.37484**
	setup	**CLK (R)**	0.01860	0.01860	**0.19073**	1.26300	1.26300	**0.39126**	2.50740	2.50740	**0.50767**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04890**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.25678**
	setup	**CLK (R)**	0.01860	0.01860	**0.17850**	1.26300	1.26300	**0.32920**	2.50740	2.50740	**0.45159**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04890**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.25383**
	setup	**CLK (R)**	0.01860	0.01860	**0.17850**	1.26300	1.26300	**0.32920**	2.50740	2.50740	**0.45159**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.20295**	1.26300	1.26300	**0.41015**	2.50740	2.50740	**0.56079**
	removal	**CLK (R)**	0.01860	0.01860	**-0.16627**	1.26300	1.26300	**-0.37507**	2.50740	2.50740	**-0.51062**
sg13g2_dfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.20295**	1.26300	1.26300	**0.41285**	2.50740	2.50740	**0.56374**
	removal	**CLK (R)**	0.01860	0.01860	**-0.16627**	1.26300	1.26300	**-0.37507**	2.50740	2.50740	**-0.50767**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.16632**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.16632**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	**0.01999**	0.32940	0.06480	**0.01988**	2.50740	0.30000	**0.02248**
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	**0.02249**	0.32940	0.12960	**0.02268**	2.50740	0.60000	**0.02505**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	CLK	0.01860	0.00100	**0.02069**	0.32940	0.06480	**0.02081**	2.50740	0.30000	**0.02421**
	RESET_B	0.01860	0.00100	**0.01289**	0.32940	0.06480	**0.01302**	2.50740	0.30000	**0.01399**
sg13g2_dfrbpq_2	CLK	0.01860	0.00100	**0.02307**	0.32940	0.12960	**0.02367**	2.50740	0.60000	**0.02709**
	RESET_B	0.01860	0.00100	**0.01519**	0.32940	0.12960	**0.01587**	2.50740	0.60000	**0.01661**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00890**	0.32940	**0.00846**	2.50740	**0.01153**
sg13g2_dfrbpq_2	0.01860	**0.00922**	0.32940	**0.00882**	2.50740	**0.01187**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.01674**	0.32940	**0.01632**	2.50740	**0.01919**
sg13g2_dfrbpq_2	0.01860	**0.01670**	0.32940	**0.01629**	2.50740	**0.01915**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.00890**	0.32940	**0.00846**	2.50740	**0.01153**
	(D * !RESET_B * !Q)	0.01860	**0.00927**	0.32940	**0.00887**	2.50740	**0.01192**
	(!D * RESET_B * !Q)	0.01860	**0.00876**	0.32940	**0.00835**	2.50740	**0.01141**
	(!D * !RESET_B * !Q)	0.01860	**0.00916**	0.32940	**0.00876**	2.50740	**0.01180**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.00892**	0.32940	**0.00849**	2.50740	**0.01156**
	(D * !RESET_B * !Q)	0.01860	**0.00934**	0.32940	**0.00894**	2.50740	**0.01199**
	(!D * RESET_B * !Q)	0.01860	**0.00885**	0.32940	**0.00841**	2.50740	**0.01149**
	(!D * !RESET_B * !Q)	0.01860	**0.00922**	0.32940	**0.00882**	2.50740	**0.01187**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.02115**	0.32940	**0.02073**	2.50740	**0.02359**
	(D * RESET_B * !Q)	0.01860	**0.01674**	0.32940	**0.01632**	2.50740	**0.01919**
	(D * !RESET_B * !Q)	0.01860	**0.00872**	0.32940	**0.00840**	2.50740	**0.01134**
	(!D * RESET_B * Q)	0.01860	**0.03007**	0.32940	**0.02404**	2.50740	**0.02704**
	(!D * RESET_B * !Q)	0.01860	**0.00865**	0.32940	**0.00833**	2.50740	**0.01126**
	(!D * !RESET_B * !Q)	0.01860	**0.00869**	0.32940	**0.00836**	2.50740	**0.01130**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.02479**	0.32940	**0.02439**	2.50740	**0.02725**
	(D * RESET_B * !Q)	0.01860	**0.01670**	0.32940	**0.01629**	2.50740	**0.01915**
	(D * !RESET_B * !Q)	0.01860	**0.00869**	0.32940	**0.00838**	2.50740	**0.01127**
	(!D * RESET_B * Q)	0.01860	**0.03064**	0.32940	**0.03007**	2.50740	**0.03295**
	(!D * RESET_B * !Q)	0.01860	**0.00862**	0.32940	**0.00831**	2.50740	**0.01122**
	(!D * !RESET_B * !Q)	0.01860	**0.00865**	0.32940	**0.00833**	2.50740	**0.01124**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00145**	0.32940	**0.00136**	2.50740	**0.00249**
sg13g2_dfrbpq_2	0.01860	**0.00145**	0.32940	**0.00136**	2.50740	**0.00250**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00109**	0.32940	**0.00098**	2.50740	**0.00210**
sg13g2_dfrbpq_2	0.01860	**0.00110**	0.32940	**0.00099**	2.50740	**0.00210**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00145**	0.32940	**0.00136**	2.50740	**0.00249**
	(!CLK * RESET_B)	0.01860	**0.00945**	0.32940	**0.00938**	2.50740	**0.01041**
	(!CLK * !RESET_B)	0.01860	**-0.00005**	0.32940	**-0.00005**	2.50740	**-0.00005**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00145**	0.32940	**0.00136**	2.50740	**0.00250**
	(!CLK * RESET_B)	0.01860	**0.00945**	0.32940	**0.00936**	2.50740	**0.01040**
	(!CLK * !RESET_B)	0.01860	**-0.00004**	0.32940	**-0.00005**	2.50740	**-0.00005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00109**	0.32940	**0.00098**	2.50740	**0.00210**
	(!CLK * RESET_B)	0.01860	**0.00711**	0.32940	**0.00696**	2.50740	**0.00806**
	(!CLK * !RESET_B)	0.01860	**0.00005**	0.32940	**0.00005**	2.50740	**0.00005**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00110**	0.32940	**0.00099**	2.50740	**0.00210**
	(!CLK * RESET_B)	0.01860	**0.00714**	0.32940	**0.00697**	2.50740	**0.00808**
	(!CLK * !RESET_B)	0.01860	**0.00004**	0.32940	**0.00005**	2.50740	**0.00005**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00283**	0.32940	**0.00271**	2.50740	**0.00343**
sg13g2_dfrbpq_2	0.01860	**0.00286**	0.32940	**0.00274**	2.50740	**0.00346**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00748**	0.32940	**0.00700**	2.50740	**0.00811**
sg13g2_dfrbpq_2	0.01860	**0.00746**	0.32940	**0.00698**	2.50740	**0.00810**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**(CLK * D * !Q)**	0.01860	**0.00283**	0.32940	**0.00271**	2.50740	**0.00343**
	(CLK * !D * !Q)	0.01860	**0.00092**	0.32940	**0.00092**	2.50740	**0.00092**
	(!CLK * D * !Q)	0.01860	**0.01119**	0.32940	**0.01092**	2.50740	**0.01190**
	(!CLK * !D * !Q)	0.01860	**0.00089**	0.32940	**0.00088**	2.50740	**0.00088**
sg13g2_dfrbpq_2	**(CLK * D * !Q)**	0.01860	**0.00286**	0.32940	**0.00274**	2.50740	**0.00346**
	(CLK * !D * !Q)	0.01860	**0.00095**	0.32940	**0.00095**	2.50740	**0.00095**
	(!CLK * D * !Q)	0.01860	**0.01120**	0.32940	**0.01093**	2.50740	**0.01191**
	(!CLK * !D * !Q)	0.01860	**0.00092**	0.32940	**0.00091**	2.50740	**0.00091**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(CLK * D * !Q)	0.01860	**0.02054**	0.32940	**0.01982**	2.50740	**0.02230**
	(CLK * !D * !Q)	0.01860	**-0.00041**	0.32940	**-0.00057**	2.50740	**-0.00063**
	(!CLK * D * !Q)	0.01860	**0.00748**	0.32940	**0.00700**	2.50740	**0.00811**
	(!CLK * !D * !Q)	0.01860	**-0.00063**	0.32940	**-0.00076**	2.50740	**-0.00080**
sg13g2_dfrbpq_2	(CLK * D * !Q)	0.01860	**0.02282**	0.32940	**0.02211**	2.50740	**0.02462**
	(CLK * !D * !Q)	0.01860	**-0.00043**	0.32940	**-0.00060**	2.50740	**-0.00066**
	(!CLK * D * !Q)	0.01860	**0.00746**	0.32940	**0.00698**	2.50740	**0.00810**
	(!CLK * !D * !Q)	0.01860	**-0.00065**	0.32940	**-0.00079**	2.50740	**-0.00083**

DFRBPx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_1	52.61760
sg13g2_dfrbp_2	54.43200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CLK	D	RESET_B	Q	Q_N
sg13g2_dfrbp_1	0.00261	0.00146	0.00478	0.30000	0.30000
sg13g2_dfrbp_2	0.00262	0.00147	0.00483	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_1	2173.50000	2633.71000	3177.04000
sg13g2_dfrbp_2	2762.67000	3213.90000	3739.28000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.29344**	0.32940	0.06480	**0.69671**	2.50740	0.30000	**2.05722**
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.37513**	0.32940	0.12960	**0.77017**	2.50740	0.60000	**2.13655**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.26992**	0.32940	0.06480	**0.63832**	2.50740	0.30000	**1.81466**
	RESET_B->Q (FF)	0.01860	0.00100	**0.37912**	0.32940	0.06480	**0.78009**	2.50740	0.30000	**2.16813**
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.32730**	0.32940	0.12960	**0.69555**	2.50740	0.60000	**1.87746**
	RESET_B->Q (FF)	0.01860	0.00100	**0.43690**	0.32940	0.12960	**0.83761**	2.50740	0.60000	**2.22950**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.21024**	0.32940	0.06480	**0.65492**	2.50740	0.30000	**1.98470**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.32030**	0.32940	0.06480	**0.79349**	2.50740	0.30000	**2.33570**
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.21746**	0.32940	0.12960	**0.67804**	2.50740	0.60000	**2.01061**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.32943**	0.32940	0.12960	**0.81746**	2.50740	0.60000	**2.35980**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.22530**	0.32940	0.06480	**0.66698**	2.50740	0.30000	**1.88256**
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.24237**	0.32940	0.12960	**0.70726**	2.50740	0.60000	**1.92516**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.17593**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.21439**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.21439**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.21439**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.27523**	2.50740	2.50740	**-0.36304**
	setup	**CLK (R)**	0.01860	0.01860	**0.18828**	1.26300	1.26300	**0.38856**	2.50740	2.50740	**0.49586**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.26984**	2.50740	2.50740	**-0.36009**
	setup	**CLK (R)**	0.01860	0.01860	**0.18828**	1.26300	1.26300	**0.38856**	2.50740	2.50740	**0.49586**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.17269**	2.50740	2.50740	**-0.25973**
	setup	**CLK (R)**	0.01860	0.01860	**0.18339**	1.26300	1.26300	**0.33190**	2.50740	2.50740	**0.45454**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04646**	1.26300	1.26300	**-0.16730**	2.50740	2.50740	**-0.25973**
	setup	**CLK (R)**	0.01860	0.01860	**0.18339**	1.26300	1.26300	**0.33460**	2.50740	2.50740	**0.45749**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.20051**	1.26300	1.26300	**0.41015**	2.50740	2.50740	**0.55489**
	removal	**CLK (R)**	0.01860	0.01860	**-0.17116**	1.26300	1.26300	**-0.37777**	2.50740	2.50740	**-0.51357**
sg13g2_dfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.20051**	1.26300	1.26300	**0.41285**	2.50740	2.50740	**0.55489**
	removal	**CLK (R)**	0.01860	0.01860	**-0.17116**	1.26300	1.26300	**-0.38047**	2.50740	2.50740	**-0.51652**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.16953**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.17273**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02391**	0.32940	0.06480	**0.06130**	2.50740	0.30000	**0.20118**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.02918**	0.32940	0.12960	**0.10515**	2.50740	0.60000	**0.38177**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02453**	0.32940	0.06480	**0.06202**	2.50740	0.30000	**0.20245**
	RESET_B	0.01860	0.00100	**0.01687**	0.32940	0.06480	**0.05461**	2.50740	0.30000	**0.19204**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.02976**	0.32940	0.12960	**0.10598**	2.50740	0.60000	**0.38301**
	RESET_B	0.01860	0.00100	**0.02217**	0.32940	0.12960	**0.09881**	2.50740	0.60000	**0.37201**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02452**	0.32940	0.06480	**0.06215**	2.50740	0.30000	**0.20237**
	RESET_B	0.01860	0.00100	**0.01687**	0.32940	0.06480	**0.05452**	2.50740	0.30000	**0.19255**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.02977**	0.32940	0.12960	**0.10601**	2.50740	0.60000	**0.38326**
	RESET_B	0.01860	0.00100	**0.02220**	0.32940	0.12960	**0.09841**	2.50740	0.60000	**0.37339**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02391**	0.32940	0.06480	**0.06129**	2.50740	0.30000	**0.20128**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.02918**	0.32940	0.12960	**0.10512**	2.50740	0.60000	**0.38165**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00889**	0.32940	**0.00847**	2.50740	**0.01154**
sg13g2_dfrbp_2	0.01860	**0.00925**	0.32940	**0.00883**	2.50740	**0.01189**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.01675**	0.32940	**0.01632**	2.50740	**0.01918**
sg13g2_dfrbp_2	0.01860	**0.01671**	0.32940	**0.01628**	2.50740	**0.01915**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.00889**	0.32940	**0.00847**	2.50740	**0.01154**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00928**	0.32940	**0.00887**	2.50740	**0.01193**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00877**	0.32940	**0.00835**	2.50740	**0.01143**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00916**	0.32940	**0.00876**	2.50740	**0.01181**
sg13g2_dfrbp_2	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.00894**	0.32940	**0.00851**	2.50740	**0.01156**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00937**	0.32940	**0.00895**	2.50740	**0.01200**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00886**	0.32940	**0.00842**	2.50740	**0.01151**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00925**	0.32940	**0.00883**	2.50740	**0.01189**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01774**	0.32940	**0.01730**	2.50740	**0.02016**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.01675**	0.32940	**0.01632**	2.50740	**0.01918**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00873**	0.32940	**0.00839**	2.50740	**0.01133**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.02746**	0.32940	**0.02392**	2.50740	**0.02673**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00865**	0.32940	**0.00833**	2.50740	**0.01126**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00870**	0.32940	**0.00837**	2.50740	**0.01130**
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.01796**	0.32940	**0.01753**	2.50740	**0.02039**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.01671**	0.32940	**0.01628**	2.50740	**0.01915**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.00870**	0.32940	**0.00839**	2.50740	**0.01128**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.02678**	0.32940	**0.02952**	2.50740	**0.03220**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.00864**	0.32940	**0.00830**	2.50740	**0.01122**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.00867**	0.32940	**0.00834**	2.50740	**0.01124**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00145**	0.32940	**0.00136**	2.50740	**0.00248**
sg13g2_dfrbp_2	0.01860	**0.00145**	0.32940	**0.00136**	2.50740	**0.00250**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00109**	0.32940	**0.00098**	2.50740	**0.00210**
sg13g2_dfrbp_2	0.01860	**0.00110**	0.32940	**0.00099**	2.50740	**0.00210**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00145**	0.32940	**0.00136**	2.50740	**0.00248**
	(!CLK * RESET_B)	0.01860	**0.00949**	0.32940	**0.00937**	2.50740	**0.01041**
	(!CLK * !RESET_B)	0.01860	**-0.00005**	0.32940	**-0.00005**	2.50740	**-0.00005**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00145**	0.32940	**0.00136**	2.50740	**0.00250**
	(!CLK * RESET_B)	0.01860	**0.00944**	0.32940	**0.00937**	2.50740	**0.01040**
	(!CLK * !RESET_B)	0.01860	**-0.00004**	0.32940	**-0.00005**	2.50740	**-0.00005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00109**	0.32940	**0.00098**	2.50740	**0.00210**
	(!CLK * RESET_B)	0.01860	**0.00711**	0.32940	**0.00697**	2.50740	**0.00806**
	(!CLK * !RESET_B)	0.01860	**0.00005**	0.32940	**0.00005**	2.50740	**0.00005**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00110**	0.32940	**0.00099**	2.50740	**0.00210**
	(!CLK * RESET_B)	0.01860	**0.00713**	0.32940	**0.00697**	2.50740	**0.00808**
	(!CLK * !RESET_B)	0.01860	**0.00004**	0.32940	**0.00005**	2.50740	**0.00005**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00283**	0.32940	**0.00271**	2.50740	**0.00343**
sg13g2_dfrbp_2	0.01860	**0.00286**	0.32940	**0.00274**	2.50740	**0.00346**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00747**	0.32940	**0.00700**	2.50740	**0.00811**
sg13g2_dfrbp_2	0.01860	**0.00746**	0.32940	**0.00698**	2.50740	**0.00810**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00283**	0.32940	**0.00271**	2.50740	**0.00343**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00093**	0.32940	**0.00092**	2.50740	**0.00093**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01116**	0.32940	**0.01092**	2.50740	**0.01190**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00088**	0.32940	**0.00088**	2.50740	**0.00088**
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00286**	0.32940	**0.00274**	2.50740	**0.00346**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00095**	0.32940	**0.00095**	2.50740	**0.00096**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01117**	0.32940	**0.01093**	2.50740	**0.01191**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00091**	0.32940	**0.00091**	2.50740	**0.00092**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.02392**	0.32940	**0.02322**	2.50740	**0.02571**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00041**	0.32940	**-0.00057**	2.50740	**-0.00063**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00747**	0.32940	**0.00700**	2.50740	**0.00811**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00063**	0.32940	**-0.00076**	2.50740	**-0.00081**
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.02923**	0.32940	**0.02856**	2.50740	**0.03109**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00044**	0.32940	**-0.00060**	2.50740	**-0.00066**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00746**	0.32940	**0.00698**	2.50740	**0.00810**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00066**	0.32940	**-0.00079**	2.50740	**-0.00084**

DLHQ

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00213	0.00213	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	1392.37000	1700.59000	2124.80000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.27312**	0.32940	0.06480	**0.67277**	2.50740	0.30000	**1.97291**
	GATE->Q (RR)	0.01860	0.00100	**0.23272**	0.32940	0.06480	**0.63394**	2.50740	0.30000	**1.92900**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.24124**	0.32940	0.06480	**0.60099**	2.50740	0.30000	**1.70445**
	GATE->Q (RF)	0.01860	0.00100	**0.25029**	0.32940	0.06480	**0.61399**	2.50740	0.30000	**1.72578**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.14671**	1.26300	1.26300	**-0.33190**	2.50740	2.50740	**-0.41617**
	setup	GATE (F)	0.01860	0.01860	**0.15894**	1.26300	1.26300	**0.39126**	2.50740	2.50740	**0.53423**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.06113**	1.26300	1.26300	**-0.03778**	2.50740	2.50740	**-0.01181**
	setup	GATE (F)	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.02656**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.12146**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01123**	0.32940	0.06480	**0.01160**	2.50740	0.30000	**0.01101**
	GATE	0.01860	0.00100	**0.00929**	0.32940	0.06480	**0.00957**	2.50740	0.30000	**0.00907**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01195**	0.32940	0.06480	**0.01233**	2.50740	0.30000	**0.01210**
	GATE	0.01860	0.00100	**0.01017**	0.32940	0.06480	**0.01066**	2.50740	0.30000	**0.01074**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00308**	0.32940	**0.00286**	2.50740	**0.00496**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00304**	0.32940	**0.00286**	2.50740	**0.00490**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00308**	0.32940	**0.00286**	2.50740	**0.00496**
	(!GATE * !Q)	0.01860	**0.00278**	0.32940	**0.00260**	2.50740	**0.00474**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00287**	0.32940	**0.00274**	2.50740	**0.00482**
	(!GATE * !Q)	0.01860	**0.00304**	0.32940	**0.00286**	2.50740	**0.00490**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00722**	0.32940	**0.00696**	2.50740	**0.00958**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.01171**	0.32940	**0.01210**	2.50740	**0.01480**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.00722**	0.32940	**0.00696**	2.50740	**0.00958**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.01171**	0.32940	**0.01210**	2.50740	**0.01480**

DLHRQ

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhrq_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	GATE	RESET_B	Q
sg13g2_dlhrq_1	0.00199	0.00204	0.00272	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	1556.96000	1837.18000	2128.14000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.29005**	0.32940	0.06480	**0.69762**	2.50740	0.30000	**1.99576**
	GATE->Q (RR)	0.01860	0.00100	**0.26153**	0.32940	0.06480	**0.67264**	2.50740	0.30000	**1.96946**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.25632**	0.32940	0.06480	**0.61947**	2.50740	0.30000	**1.73127**
	GATE->Q (RF)	0.01860	0.00100	**0.26924**	0.32940	0.06480	**0.63874**	2.50740	0.30000	**1.76422**
	RESET_B->Q (FF)	0.01860	0.00100	**0.09770**	0.32940	0.06480	**0.48085**	2.50740	0.30000	**1.68047**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.13204**	1.26300	1.26300	**-0.29952**	2.50740	2.50740	**-0.37780**
	setup	GATE (F)	0.01860	0.01860	**0.15405**	1.26300	1.26300	**0.36698**	2.50740	2.50740	**0.49291**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.03508**	2.50740	2.50740	**-0.00590**
	setup	GATE (F)	0.01860	0.01860	**0.08558**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.02361**

Constraints(ns) for GATE rising :

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

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.02201**	1.26300	1.26300	**-0.12143**	2.50740	2.50740	**-0.16824**
	removal	GATE (F)	0.01860	0.01860	**0.04646**	1.26300	1.26300	**0.16730**	2.50740	2.50740	**0.22432**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.29129**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00070**	0.32940	0.06480	**0.00064**	2.50740	0.30000	**0.00011**
	GATE	0.01860	0.00100	**0.00721**	0.32940	0.06480	**0.00758**	2.50740	0.30000	**0.00709**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**-0.00070**	0.32940	0.06480	**-0.00064**	2.50740	0.30000	**-0.00011**
	GATE	0.01860	0.00100	**0.00721**	0.32940	0.06480	**0.00782**	2.50740	0.30000	**0.00789**
	RESET_B	0.01860	0.00100	**0.00593**	0.32940	0.06480	**0.00610**	2.50740	0.30000	**0.00840**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01363**	0.32940	**0.01377**	2.50740	**0.01594**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01603**	0.32940	**0.01940**	2.50740	**0.02150**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00111**	0.32940	**0.00091**	2.50740	**0.00303**
	!RESET_B	0.01860	**0.01363**	0.32940	**0.01377**	2.50740	**0.01594**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00377**	0.32940	**0.00364**	2.50740	**0.00572**
	!RESET_B	0.01860	**0.01603**	0.32940	**0.01940**	2.50740	**0.02150**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.00980**	0.32940	**0.00938**	2.50740	**0.01202**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01187**	0.32940	**0.01234**	2.50740	**0.01497**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.00980**	0.32940	**0.00938**	2.50740	**0.01202**
	(!D * !RESET_B * !Q)	0.01860	**0.00700**	0.32940	**0.00674**	2.50740	**0.00932**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.00952**	0.32940	**0.00914**	2.50740	**0.01197**
	(!D * RESET_B * !Q)	0.01860	**0.01187**	0.32940	**0.01234**	2.50740	**0.01497**
	(!D * !RESET_B * !Q)	0.01860	**0.01193**	0.32940	**0.01241**	2.50740	**0.01502**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.00011**	0.32940	**0.00010**	2.50740	**0.00010**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.00020**	0.32940	**0.00011**	2.50740	**0.00007**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	**(D * !GATE * !Q)**	0.01860	**0.00011**	0.32940	**0.00010**	2.50740	**0.00010**
	(!D * !GATE * !Q)	0.01860	**0.00011**	0.32940	**0.00010**	2.50740	**0.00010**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	**(D * !GATE * !Q)**	0.01860	**0.00020**	0.32940	**0.00011**	2.50740	**0.00007**
	(!D * !GATE * !Q)	0.01860	**0.00020**	0.32940	**0.00011**	2.50740	**0.00007**

DLHR

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GATE	RESET_B	Q	Q_N
sg13g2_dlhr_1	0.00193	0.00209	0.00288	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	2052.82000	2349.90000	2640.92000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.31403**	0.32940	0.06480	**0.73280**	2.50740	0.30000	**2.02785**
	GATE->Q (RR)	0.01860	0.00100	**0.28683**	0.32940	0.06480	**0.71020**	2.50740	0.30000	**2.00676**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.26572**	0.32940	0.06480	**0.63458**	2.50740	0.30000	**1.73773**
	GATE->Q (RF)	0.01860	0.00100	**0.27870**	0.32940	0.06480	**0.65482**	2.50740	0.30000	**1.77539**
	RESET_B->Q (FF)	0.01860	0.00100	**0.10660**	0.32940	0.06480	**0.50400**	2.50740	0.30000	**1.73927**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.32622**	0.32940	0.06480	**0.71592**	2.50740	0.30000	**1.97227**
	GATE->Q_N (RR)	0.01860	0.00100	**0.33946**	0.32940	0.06480	**0.73594**	2.50740	0.30000	**2.01022**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.16664**	0.32940	0.06480	**0.58146**	2.50740	0.30000	**1.92390**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.38206**	0.32940	0.06480	**0.73413**	2.50740	0.30000	**1.87564**
	GATE->Q_N (RF)	0.01860	0.00100	**0.35526**	0.32940	0.06480	**0.71128**	2.50740	0.30000	**1.85476**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.14182**	1.26300	1.26300	**-0.30761**	2.50740	2.50740	**-0.38370**
	setup	GATE (F)	0.01860	0.01860	**0.16627**	1.26300	1.26300	**0.37237**	2.50740	2.50740	**0.49881**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.03508**	2.50740	2.50740	**-0.00590**
	setup	GATE (F)	0.01860	0.01860	**0.09047**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.02361**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.14069**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**-0.00734**	1.26300	1.26300	**-0.05667**	2.50740	2.50740	**-0.07969**
	removal	GATE (F)	0.01860	0.01860	**0.03423**	1.26300	1.26300	**0.11603**	2.50740	2.50740	**0.14758**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.30090**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00357**	0.32940	0.06480	**0.00381**	2.50740	0.30000	**0.00349**
	GATE	0.01860	0.00100	**0.00673**	0.32940	0.06480	**0.00709**	2.50740	0.30000	**0.00677**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00221**	0.32940	0.06480	**0.00076**	2.50740	0.30000	**0.00043**
	GATE	0.01860	0.00100	**0.00674**	0.32940	0.06480	**0.00720**	2.50740	0.30000	**0.00707**
	RESET_B	0.01860	0.00100	**0.00598**	0.32940	0.06480	**0.00612**	2.50740	0.30000	**0.00718**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00222**	0.32940	0.06480	**0.00084**	2.50740	0.30000	**0.00044**
	GATE	0.01860	0.00100	**0.01149**	0.32940	0.06480	**0.01178**	2.50740	0.30000	**0.01300**
	RESET_B	0.01860	0.00100	**0.00598**	0.32940	0.06480	**0.00623**	2.50740	0.30000	**0.00723**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00357**	0.32940	0.06480	**0.00374**	2.50740	0.30000	**0.00352**
	GATE	0.01860	0.00100	**0.00672**	0.32940	0.06480	**0.00703**	2.50740	0.30000	**0.00695**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01329**	0.32940	**0.01341**	2.50740	**0.01561**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01572**	0.32940	**0.01916**	2.50740	**0.02130**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00278**	0.32940	**0.00258**	2.50740	**0.00472**
	!RESET_B	0.01860	**0.01329**	0.32940	**0.01341**	2.50740	**0.01561**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00535**	0.32940	**0.00523**	2.50740	**0.00734**
	!RESET_B	0.01860	**0.01572**	0.32940	**0.01916**	2.50740	**0.02130**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.00950**	0.32940	**0.00910**	2.50740	**0.01174**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01173**	0.32940	**0.01216**	2.50740	**0.01470**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.00950**	0.32940	**0.00910**	2.50740	**0.01174**
	(!D * !RESET_B * !Q)	0.01860	**0.00672**	0.32940	**0.00646**	2.50740	**0.00906**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.00976**	0.32940	**0.00937**	2.50740	**0.01220**
	(!D * RESET_B * !Q)	0.01860	**0.01173**	0.32940	**0.01216**	2.50740	**0.01470**
	(!D * !RESET_B * !Q)	0.01860	**0.01177**	0.32940	**0.01218**	2.50740	**0.01483**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.00002**	0.32940	**0.00001**	2.50740	**0.00001**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.00028**	0.32940	**0.00019**	2.50740	**0.00016**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00002**	0.32940	**0.00001**	2.50740	**0.00001**
	(!D * !GATE * !Q)	0.01860	**0.00002**	0.32940	**0.00001**	2.50740	**0.00001**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00028**	0.32940	**0.00019**	2.50740	**0.00016**
	(!D * !GATE * !Q)	0.01860	**0.00028**	0.32940	**0.00019**	2.50740	**0.00016**

DLLRQ

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	GATE_N	RESET_B	Q
sg13g2_dllrq_1	0.00190	0.00202	0.00273	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	1556.62000	1837.09000	2128.23000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.28861**	0.32940	0.06480	**0.69506**	2.50740	0.30000	**1.99152**
	GATE_N->Q (FR)	0.01860	0.00100	**0.32484**	0.32940	0.06480	**0.74234**	2.50740	0.30000	**2.05738**
	RESET_B->Q (RR)	0.01860	0.00100	**0.12892**	0.32940	0.06480	**0.53336**	2.50740	0.30000	**1.88551**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.25512**	0.32940	0.06480	**0.61605**	2.50740	0.30000	**1.72144**
	GATE_N->Q (FF)	0.01860	0.00100	**0.24413**	0.32940	0.06480	**0.62318**	2.50740	0.30000	**1.82145**
	RESET_B->Q (FF)	0.01860	0.00100	**0.09855**	0.32940	0.06480	**0.48039**	2.50740	0.30000	**1.67735**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.10514**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.15643**
	setup	GATE_N (R)	0.01860	0.01860	**0.11981**	1.26300	1.26300	**0.14571**	2.50740	2.50740	**0.18004**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.13204**	1.26300	1.26300	**-0.31841**	2.50740	2.50740	**-0.40731**
	setup	GATE_N (R)	0.01860	0.01860	**0.14671**	1.26300	1.26300	**0.36968**	2.50740	2.50740	**0.49586**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.16632**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.05379**	1.26300	1.26300	**-0.14571**	2.50740	2.50740	**-0.16529**
	removal	GATE_N (R)	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.20070**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.29129**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00472**	0.32940	0.06480	**0.00516**	2.50740	0.30000	**0.00466**
	GATE_N	0.01860	0.00100	**0.00561**	0.32940	0.06480	**0.00519**	2.50740	0.30000	**0.00493**
	RESET_B	0.01860	0.00100	**0.00728**	0.32940	0.06480	**0.00735**	2.50740	0.30000	**0.00860**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00416**	0.32940	0.06480	**0.00037**	2.50740	0.30000	**0.00009**
	GATE_N	0.01860	0.00100	**0.00471**	0.32940	0.06480	**0.00435**	2.50740	0.30000	**0.00426**
	RESET_B	0.01860	0.00100	**0.00605**	0.32940	0.06480	**0.00620**	2.50740	0.30000	**0.00862**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00953**	0.32940	**0.00919**	2.50740	**0.01131**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00999**	0.32940	**0.01396**	2.50740	**0.01606**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00105**	0.32940	**0.00086**	2.50740	**0.00298**
	!RESET_B	0.01860	**0.00953**	0.32940	**0.00919**	2.50740	**0.01131**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00372**	0.32940	**0.00359**	2.50740	**0.00569**
	!RESET_B	0.01860	**0.00999**	0.32940	**0.01396**	2.50740	**0.01606**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01060**	0.32940	**0.01024**	2.50740	**0.01264**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01181**	0.32940	**0.01226**	2.50740	**0.01482**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.01060**	0.32940	**0.01024**	2.50740	**0.01264**
	(!D * !RESET_B * !Q)	0.01860	**0.00629**	0.32940	**0.00602**	2.50740	**0.00861**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.01020**	0.32940	**0.00994**	2.50740	**0.01244**
	(!D * RESET_B * !Q)	0.01860	**0.01181**	0.32940	**0.01226**	2.50740	**0.01482**
	(!D * !RESET_B * !Q)	0.01860	**0.01186**	0.32940	**0.01231**	2.50740	**0.01494**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00016**	0.32940	**0.00016**	2.50740	**0.00016**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00021**	0.32940	**0.00012**	2.50740	**0.00009**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	**(D * GATE_N * !Q)**	0.01860	**0.00016**	0.32940	**0.00016**	2.50740	**0.00016**
	(!D * GATE_N * !Q)	0.01860	**0.00016**	0.32940	**0.00016**	2.50740	**0.00016**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	**(D * GATE_N * !Q)**	0.01860	**0.00021**	0.32940	**0.00012**	2.50740	**0.00008**
	(!D * GATE_N * !Q)	0.01860	**0.00021**	0.32940	**0.00012**	2.50740	**0.00009**

DLLR

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GATE_N	RESET_B	Q	Q_N
sg13g2_dllr_1	0.00200	0.00215	0.00284	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	2052.71000	2408.13000	2640.82000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.31693**	0.32940	0.06480	**0.73514**	2.50740	0.30000	**2.02883**
	GATE_N->Q (FR)	0.01860	0.00100	**0.35298**	0.32940	0.06480	**0.78336**	2.50740	0.30000	**2.09608**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.26907**	0.32940	0.06480	**0.63708**	2.50740	0.30000	**1.73910**
	GATE_N->Q (FF)	0.01860	0.00100	**0.25951**	0.32940	0.06480	**0.64703**	2.50740	0.30000	**1.84860**
	RESET_B->Q (FF)	0.01860	0.00100	**0.10664**	0.32940	0.06480	**0.51157**	2.50740	0.30000	**1.74636**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.32932**	0.32940	0.06480	**0.71834**	2.50740	0.30000	**1.97159**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.32005**	0.32940	0.06480	**0.72808**	2.50740	0.30000	**2.07993**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.16786**	0.32940	0.06480	**0.58296**	2.50740	0.30000	**1.93296**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.38453**	0.32940	0.06480	**0.73652**	2.50740	0.30000	**1.87723**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.42102**	0.32940	0.06480	**0.78468**	2.50740	0.30000	**1.94705**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.11737**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.16234**
	setup	GATE_N (R)	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.15381**	2.50740	2.50740	**0.18890**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.13693**	1.26300	1.26300	**-0.32380**	2.50740	2.50740	**-0.41026**
	setup	GATE_N (R)	0.01860	0.01860	**0.15405**	1.26300	1.26300	**0.37777**	2.50740	2.50740	**0.50471**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.18555**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.09444**	2.50740	2.50740	**-0.08855**
	removal	GATE_N (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.12952**	2.50740	2.50740	**0.13282**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.30090**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00746**	0.32940	0.06480	**0.04513**	2.50740	0.30000	**0.18148**
	GATE_N	0.01860	0.00100	**0.01409**	0.32940	0.06480	**0.05198**	2.50740	0.30000	**0.18877**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00669**	0.32940	0.06480	**0.03799**	2.50740	0.30000	**0.17439**
	GATE_N	0.01860	0.00100	**0.01282**	0.32940	0.06480	**0.05060**	2.50740	0.30000	**0.18697**
	RESET_B	0.01860	0.00100	**0.01866**	0.32940	0.06480	**0.05584**	2.50740	0.30000	**0.19424**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00671**	0.32940	0.06480	**0.03806**	2.50740	0.30000	**0.17450**
	GATE_N	0.01860	0.00100	**0.02323**	0.32940	0.06480	**0.06094**	2.50740	0.30000	**0.20023**
	RESET_B	0.01860	0.00100	**0.01866**	0.32940	0.06480	**0.05612**	2.50740	0.30000	**0.19468**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00745**	0.32940	0.06480	**0.04500**	2.50740	0.30000	**0.18156**
	GATE_N	0.01860	0.00100	**0.01407**	0.32940	0.06480	**0.05195**	2.50740	0.30000	**0.18885**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01393**	0.32940	**0.01406**	2.50740	**0.01628**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01398**	0.32940	**0.02042**	2.50740	**0.02256**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00282**	0.32940	**0.00263**	2.50740	**0.00477**
	!RESET_B	0.01860	**0.01393**	0.32940	**0.01406**	2.50740	**0.01628**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00265**	0.32940	**0.00253**	2.50740	**0.00464**
	!RESET_B	0.01860	**0.01398**	0.32940	**0.02042**	2.50740	**0.02256**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01046**	0.32940	**0.01250**	2.50740	**0.01508**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01040**	0.32940	**0.01014**	2.50740	**0.01264**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01063**	0.32940	**0.01028**	2.50740	**0.01267**
	(!D * RESET_B * !Q)	0.01860	**0.01046**	0.32940	**0.01250**	2.50740	**0.01508**
	(!D * !RESET_B * !Q)	0.01860	**0.01051**	0.32940	**0.01254**	2.50740	**0.01511**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01040**	0.32940	**0.01014**	2.50740	**0.01264**
	(!D * !RESET_B * !Q)	0.01860	**0.00683**	0.32940	**0.00659**	2.50740	**0.00924**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.00215**	0.32940	**0.00214**	2.50740	**0.00214**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.00030**	0.32940	**0.00022**	2.50740	**0.00018**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00215**	0.32940	**0.00214**	2.50740	**0.00214**
	(!D * GATE_N * !Q)	0.01860	**-0.00000**	0.32940	**-0.00001**	2.50740	**-0.00001**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00031**	0.32940	**0.00022**	2.50740	**0.00018**
	(!D * GATE_N * !Q)	0.01860	**0.00030**	0.32940	**0.00022**	2.50740	**0.00018**

DLYGATE4SD1

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00140	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	797.60500	914.86200	1032.12000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.18047**	0.32940	0.06480	**0.58465**	2.50740	0.30000	**1.86078**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.21054**	0.32940	0.06480	**0.59497**	2.50740	0.30000	**1.83148**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01004**	0.32940	0.06480	**0.01005**	2.50740	0.30000	**0.01078**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.00960**	0.32940	0.06480	**0.00971**	2.50740	0.30000	**0.01069**

DLYGATE4SD2

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00139	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	840.62300	957.87600	1075.13000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.25740**	0.32940	0.06480	**0.67339**	2.50740	0.30000	**1.99890**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.29284**	0.32940	0.06480	**0.69831**	2.50740	0.30000	**1.99538**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01169**	0.32940	0.06480	**0.01179**	2.50740	0.30000	**0.01235**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01133**	0.32940	0.06480	**0.01141**	2.50740	0.30000	**0.01220**

DLYGATE4SD3

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00142	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	1694.06000	1811.32000	1928.58000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.53818**	0.32940	0.06480	**0.99527**	2.50740	0.30000	**2.43191**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.56948**	0.32940	0.06480	**1.02218**	2.50740	0.30000	**2.44372**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.01643**	0.32940	0.06480	**0.01631**	2.50740	0.30000	**0.01669**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.01613**	0.32940	0.06480	**0.01607**	2.50740	0.30000	**0.01660**

EBUFNx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_ebufn_2	18.14400
sg13g2_ebufn_4	27.21600
sg13g2_ebufn_8	45.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_2	0.00244	0.00599	0.60000
sg13g2_ebufn_4	0.00277	0.00983	1.20000
sg13g2_ebufn_8	0.00540	0.01657	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_2	765.91900	931.97600	1199.63000
sg13g2_ebufn_4	1066.82000	1399.03000	2222.84000
sg13g2_ebufn_8	1655.51000	2491.38000	4310.14000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00486	**0.09470**	0.32940	0.13347	**0.81588**	2.50740	0.60386	**3.26265**
	TE_B->Z (RR)	0.01860	0.00486	**0.06756**	0.32940	0.13347	**0.15619**	2.50740	0.60386	**0.34261**
	TE_B->Z (FR)	0.01860	0.00486	**0.05124**	0.32940	0.13347	**0.76907**	2.50740	0.60386	**3.77931**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.00866	**0.11208**	0.32940	0.26686	**0.86232**	2.50740	1.20766	**3.38746**
	TE_B->Z (RR)	0.01860	0.00866	**0.07759**	0.32940	0.26686	**0.18162**	2.50740	1.20766	**0.40687**
	TE_B->Z (FR)	0.01860	0.00866	**0.05126**	0.32940	0.26686	**0.77325**	2.50740	1.20766	**3.79483**
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.01630	**0.10842**	0.32940	0.53370	**0.86029**	2.50740	2.41530	**3.38312**
	TE_B->Z (RR)	0.01860	0.01630	**0.09650**	0.32940	0.53370	**0.22841**	2.50740	2.41530	**0.56185**
	TE_B->Z (FR)	0.01860	0.01630	**0.05056**	0.32940	0.53370	**0.77468**	2.50740	2.41530	**3.79952**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00838	**0.09844**	0.32940	0.13698	**0.67927**	2.50740	0.60738	**2.56547**
	TE_B->Z (RF)	0.01860	0.00838	**0.04010**	0.32940	0.13698	**0.04012**	2.50740	0.60738	**0.04012**
	TE_B->Z (FF)	0.01860	0.00838	**0.09820**	0.32940	0.13698	**1.01526**	2.50740	0.60738	**4.17738**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01542	**0.12809**	0.32940	0.27362	**0.73728**	2.50740	1.21442	**2.72103**
	TE_B->Z (RF)	0.01860	0.01542	**0.04123**	0.32940	0.27362	**0.04124**	2.50740	1.21442	**0.04128**
	TE_B->Z (FF)	0.01860	0.01542	**0.11734**	0.32940	0.27362	**1.06138**	2.50740	1.21442	**4.29159**
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02933	**0.12395**	0.32940	0.54673	**0.73373**	2.50740	2.42833	**2.71459**
	TE_B->Z (RF)	0.01860	0.02933	**0.04236**	0.32940	0.54673	**0.04244**	2.50740	2.42833	**0.04244**
	TE_B->Z (FF)	0.01860	0.02933	**0.15348**	0.32940	0.54673	**1.12901**	2.50740	2.42833	**4.47239**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00486	**0.00363**	0.32940	0.13347	**0.00415**	2.50740	0.60386	**0.00384**
	TE_B	0.01860	0.00486	**0.00206**	0.32940	0.13347	**0.00182**	2.50740	0.60386	**0.00204**
sg13g2_ebufn_4	A	0.01860	0.00866	**0.00662**	0.32940	0.26686	**0.00834**	2.50740	1.20766	**0.00809**
	TE_B	0.01860	0.00866	**0.00408**	0.32940	0.26686	**0.00364**	2.50740	1.20766	**0.00421**
sg13g2_ebufn_8	A	0.01860	0.01630	**0.01302**	0.32940	0.53370	**0.01699**	2.50740	2.41530	**0.01682**
	TE_B	0.01860	0.01630	**0.00846**	0.32940	0.53370	**0.00739**	2.50740	2.41530	**0.00874**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00838	**0.00605**	0.32940	0.13698	**0.00687**	2.50740	0.60738	**0.00515**
	TE_B	0.01860	0.00838	**0.00254**	0.32940	0.13698	**0.02757**	2.50740	0.60738	**0.11929**
sg13g2_ebufn_4	A	0.01860	0.01542	**0.01195**	0.32940	0.27362	**0.01363**	2.50740	1.21442	**0.01101**
	TE_B	0.01860	0.01542	**0.00477**	0.32940	0.27362	**0.05357**	2.50740	1.21442	**0.23416**
sg13g2_ebufn_8	A	0.01860	0.02933	**0.02384**	0.32940	0.54673	**0.02713**	2.50740	2.42833	**0.02147**
	TE_B	0.01860	0.02933	**0.00954**	0.32940	0.54673	**0.10182**	2.50740	2.42833	**0.45791**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00648**	0.32940	**0.00630**	2.50740	**0.00896**
sg13g2_ebufn_4	0.01860	**0.01187**	0.32940	**0.01161**	2.50740	**0.01448**
sg13g2_ebufn_8	0.01860	**0.02325**	0.32940	**0.02279**	2.50740	**0.02863**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00278**	0.32940	**0.00269**	2.50740	**0.00529**
sg13g2_ebufn_4	0.01860	**0.00437**	0.32940	**0.00421**	2.50740	**0.00701**
sg13g2_ebufn_8	0.01860	**0.00817**	0.32940	**0.00788**	2.50740	**0.01360**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00052**	0.32940	**0.00003**	2.50740	**0.00254**
sg13g2_ebufn_4	0.01860	**-0.00018**	0.32940	**-0.00101**	2.50740	**0.00158**
sg13g2_ebufn_8	0.01860	**-0.00230**	0.32940	**-0.00353**	2.50740	**-0.00163**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00995**	0.32940	**0.00986**	2.50740	**0.01251**
sg13g2_ebufn_4	0.01860	**0.01902**	0.32940	**0.01879**	2.50740	**0.02162**
sg13g2_ebufn_8	0.01860	**0.03612**	0.32940	**0.03601**	2.50740	**0.03843**

EINVNx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_2	16.32960
sg13g2_einvn_4	23.58720
sg13g2_einvn_8	39.91680

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_2	0.00401	0.00453	0.60000
sg13g2_einvn_4	0.00780	0.00843	1.20000
sg13g2_einvn_8	0.01543	0.01451	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_2	355.00500	697.53300	1040.06000
sg13g2_einvn_4	717.43200	1402.49000	2087.55000
sg13g2_einvn_8	1299.58000	2669.69000	4039.80000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00492	**0.03961**	0.32940	0.13352	**0.77992**	2.50740	0.60392	**3.96567**
	TE_B->Z (RR)	0.01860	0.00492	**0.07464**	0.32940	0.13352	**0.17879**	2.50740	0.60392	**0.41673**
	TE_B->Z (FR)	0.01860	0.00492	**0.04757**	0.32940	0.13352	**0.76808**	2.50740	0.60392	**3.78244**
sg13g2_einvn_4	A->Z (FR)	0.01860	0.00879	**0.03654**	0.32940	0.26699	**0.78039**	2.50740	1.20779	**3.96752**
	TE_B->Z (RR)	0.01860	0.00879	**0.07559**	0.32940	0.26699	**0.17956**	2.50740	1.20779	**0.39970**
	TE_B->Z (FR)	0.01860	0.00879	**0.04516**	0.32940	0.26699	**0.76783**	2.50740	1.20779	**3.78204**
sg13g2_einvn_8	A->Z (FR)	0.01860	0.01656	**0.03507**	0.32940	0.53396	**0.78167**	2.50740	2.41556	**3.97500**
	TE_B->Z (RR)	0.01860	0.01656	**0.09463**	0.32940	0.53396	**0.22693**	2.50740	2.41556	**0.55939**
	TE_B->Z (FR)	0.01860	0.01656	**0.04550**	0.32940	0.53396	**0.77029**	2.50740	2.41556	**3.78884**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00841	**0.03426**	0.32940	0.13701	**0.64910**	2.50740	0.60741	**3.42474**
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01543	**0.03181**	0.32940	0.27363	**0.64953**	2.50740	1.21443	**3.42440**
sg13g2_einvn_8	A->Z (RF)	0.01860	0.02971	**0.03059**	0.32940	0.54711	**0.65014**	2.50740	2.42871	**3.43205**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00492	**0.00227**	0.32940	0.13352	**0.00267**	2.50740	0.60392	**0.00313**
	TE_B	0.01860	0.00492	**0.00585**	0.32940	0.13352	**0.00551**	2.50740	0.60392	**0.00557**
sg13g2_einvn_4	A	0.01860	0.00879	**0.00442**	0.32940	0.26699	**0.00540**	2.50740	1.20779	**0.00628**
	TE_B	0.01860	0.00879	**0.01192**	0.32940	0.26699	**0.01119**	2.50740	1.20779	**0.01168**
sg13g2_einvn_8	A	0.01860	0.01656	**0.00871**	0.32940	0.53396	**0.01100**	2.50740	2.41556	**0.01247**
	TE_B	0.01860	0.01656	**0.02666**	0.32940	0.53396	**0.02343**	2.50740	2.41556	**0.02271**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00841	**0.00228**	0.32940	0.13701	**0.00275**	2.50740	0.60741	**0.00248**
sg13g2_einvn_4	A	0.01860	0.01543	**0.00427**	0.32940	0.27363	**0.00544**	2.50740	1.21443	**0.00466**
sg13g2_einvn_8	A	0.01860	0.02971	**0.00827**	0.32940	0.54711	**0.01076**	2.50740	2.42871	**0.00987**

Passive power(pJ) for A rising :

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

Passive power(pJ) for A falling :

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

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**-0.00355**	0.32940	**-0.00381**	2.50740	**-0.00245**
sg13g2_einvn_4	0.01860	**-0.00826**	0.32940	**-0.00871**	2.50740	**-0.00601**
sg13g2_einvn_8	0.01860	**-0.01797**	0.32940	**-0.01986**	2.50740	**-0.02003**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**0.00569**	0.32940	**0.00568**	2.50740	**0.00728**
sg13g2_einvn_4	0.01860	**0.01124**	0.32940	**0.01126**	2.50740	**0.01443**
sg13g2_einvn_8	0.01860	**0.01797**	0.32940	**0.01986**	2.50740	**0.02277**

FILLx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_2	3.62880
sg13g2_fill_4	7.25760
sg13g2_fill_8	14.51520

Pin Capacitance Information
Leakage Information

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

INVx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_1	0.00270	0.30000
sg13g2_inv_16	0.04114	4.80000
sg13g2_inv_2	0.00534	0.60000
sg13g2_inv_4	0.01055	1.20000
sg13g2_inv_8	0.02112	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_1	135.28800	306.52100	477.75300
sg13g2_inv_16	2162.56000	4902.84000	7643.12000
sg13g2_inv_2	270.32500	612.86400	955.40300
sg13g2_inv_4	540.64000	1225.71000	1910.78000
sg13g2_inv_8	1081.28000	2451.44000	3821.60000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.02821**	0.32940	0.06480	**0.48851**	2.50740	0.30000	**2.69729**
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.02457**	0.32940	1.03680	**0.49187**	2.50740	4.80000	**2.70428**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.02407**	0.32940	0.12960	**0.48735**	2.50740	0.60000	**2.69578**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.02254**	0.32940	0.25920	**0.48781**	2.50740	1.20000	**2.69894**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.02195**	0.32940	0.51840	**0.48799**	2.50740	2.40000	**2.69972**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.02763**	0.32940	0.06480	**0.46034**	2.50740	0.30000	**2.58223**
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.02456**	0.32940	1.03680	**0.46394**	2.50740	4.80000	**2.59142**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.02370**	0.32940	0.12960	**0.45936**	2.50740	0.60000	**2.58122**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.02226**	0.32940	0.25920	**0.46058**	2.50740	1.20000	**2.58760**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.02172**	0.32940	0.51840	**0.46097**	2.50740	2.40000	**2.58848**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00131**	0.32940	0.06480	**0.00145**	2.50740	0.30000	**0.00122**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.01699**	0.32940	1.03680	**0.02126**	2.50740	4.80000	**0.01679**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00222**	0.32940	0.12960	**0.00254**	2.50740	0.60000	**0.00219**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00433**	0.32940	0.25920	**0.00531**	2.50740	1.20000	**0.00452**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.00856**	0.32940	0.51840	**0.01051**	2.50740	2.40000	**0.00899**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00137**	0.32940	0.06480	**0.00143**	2.50740	0.30000	**0.00131**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.01531**	0.32940	1.03680	**0.01886**	2.50740	4.80000	**0.01702**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00208**	0.32940	0.12960	**0.00236**	2.50740	0.60000	**0.00210**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00392**	0.32940	0.25920	**0.00460**	2.50740	1.20000	**0.00413**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.00773**	0.32940	0.51840	**0.00932**	2.50740	2.40000	**0.00812**

LGCP

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

INPUT		OUTPUT
CLK	GATE	GCLK
0	x	0
1	x	GCLK

Footprint

Cell Name	Area
sg13g2_lgcp_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CLK	GATE	GCLK
sg13g2_lgcp_1	0.00459	0.00217	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	1657.85000	1819.50000	1934.01000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.11291**	0.32940	0.06480	**0.51421**	2.50740	0.30000	**1.84299**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.09046**	0.32940	0.06480	**0.46580**	2.50740	0.30000	**1.63654**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.36179**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

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

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06202**	1.26300	1.26300	**-0.22308**	2.50740	2.50740	**-0.32766**
	setup	**CLK (R)**	0.01860	0.01860	**0.11983**	1.26300	1.26300	**0.32089**	2.50740	2.50740	**0.48840**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03031**	1.26300	1.26300	**-0.02259**	2.50740	2.50740	**-0.01330**
	setup	**CLK (R)**	0.01860	0.01860	**0.08771**	1.26300	1.26300	**0.08969**	2.50740	2.50740	**0.09760**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.00655**	0.32940	0.06480	**0.00666**	2.50740	0.30000	**0.00775**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.00484**	0.32940	0.06480	**0.00505**	2.50740	0.30000	**0.00690**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.00594**	0.32940	**0.00565**	2.50740	**0.00826**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.00670**	0.32940	**0.00638**	2.50740	**0.00901**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.01486**	0.32940	**0.01563**	2.50740	**0.01731**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.00869**	0.32940	**0.02181**	2.50740	**0.02378**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.01486**	0.32940	**0.01563**	2.50740	**0.01731**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.00869**	0.32940	**0.02181**	2.50740	**0.02378**

MUX2x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux2_1	18.14400
sg13g2_mux2_2	19.95840

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_1	0.00259	0.00270	0.00464	0.30000
sg13g2_mux2_2	0.00260	0.00270	0.00463	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	751.57700	1057.00000	1491.98000
sg13g2_mux2_2	1020.27000	1363.34000	1627.00000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.12112**	0.32940	0.06480	**0.53415**	2.50740	0.30000	**1.87149**
	A1->X (RR)	0.01860	0.00100	**0.12113**	0.32940	0.06480	**0.53468**	2.50740	0.30000	**1.87285**
	S->X (-R)	0.01860	0.00100	**0.12621**	0.32940	0.06480	**0.53923**	2.50740	0.30000	**1.90140**
sg13g2_mux2_2	A0->X (RR)	0.01860	0.00100	**0.14044**	0.32940	0.12960	**0.58017**	2.50740	0.60000	**1.98111**
	A1->X (RR)	0.01860	0.00100	**0.14045**	0.32940	0.12960	**0.58094**	2.50740	0.60000	**1.98317**
	S->X (-R)	0.01860	0.00100	**0.14503**	0.32940	0.12960	**0.58074**	2.50740	0.60000	**2.00195**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.15043**	0.32940	0.06480	**0.55185**	2.50740	0.30000	**1.78849**
	A1->X (FF)	0.01860	0.00100	**0.15034**	0.32940	0.06480	**0.55251**	2.50740	0.30000	**1.79052**
	S->X (-F)	0.01860	0.00100	**0.16517**	0.32940	0.06480	**0.54691**	2.50740	0.30000	**1.75707**
sg13g2_mux2_2	A0->X (FF)	0.01860	0.00100	**0.17927**	0.32940	0.12960	**0.61544**	2.50740	0.60000	**1.92069**
	A1->X (FF)	0.01860	0.00100	**0.17904**	0.32940	0.12960	**0.61622**	2.50740	0.60000	**1.91937**
	S->X (-F)	0.01860	0.00100	**0.19668**	0.32940	0.12960	**0.60672**	2.50740	0.60000	**1.87619**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.12621**	0.32940	0.06480	**0.53923**	2.50740	0.30000	**1.90140**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.18021**	0.32940	0.06480	**0.58373**	2.50740	0.30000	**1.84338**
sg13g2_mux2_2	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.14503**	0.32940	0.12960	**0.58074**	2.50740	0.60000	**2.00195**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.19935**	0.32940	0.12960	**0.61741**	2.50740	0.60000	**1.88084**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.16517**	0.32940	0.06480	**0.54691**	2.50740	0.30000	**1.75707**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.21421**	0.32940	0.06480	**0.59328**	2.50740	0.30000	**1.74830**
sg13g2_mux2_2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.19668**	0.32940	0.12960	**0.60672**	2.50740	0.60000	**1.87619**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.24587**	0.32940	0.12960	**0.64804**	2.50740	0.60000	**1.80416**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.00628**	0.32940	0.06480	**0.00621**	2.50740	0.30000	**0.00781**
	A1	0.01860	0.00100	**0.00640**	0.32940	0.06480	**0.00633**	2.50740	0.30000	**0.00796**
	S	0.01860	0.00100	**0.00747**	0.32940	0.06480	**0.00758**	2.50740	0.30000	**0.00872**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.00920**	0.32940	0.12960	**0.00957**	2.50740	0.60000	**0.01054**
	A1	0.01860	0.00100	**0.00930**	0.32940	0.12960	**0.00965**	2.50740	0.60000	**0.01068**
	S	0.01860	0.00100	**0.01032**	0.32940	0.12960	**0.01093**	2.50740	0.60000	**0.01154**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.00697**	0.32940	0.06480	**0.00704**	2.50740	0.30000	**0.00931**
	A1	0.01860	0.00100	**0.00692**	0.32940	0.06480	**0.00697**	2.50740	0.30000	**0.00921**
	S	0.01860	0.00100	**0.00765**	0.32940	0.06480	**0.00791**	2.50740	0.30000	**0.00794**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.00982**	0.32940	0.12960	**0.01010**	2.50740	0.60000	**0.01243**
	A1	0.01860	0.00100	**0.00978**	0.32940	0.12960	**0.01006**	2.50740	0.60000	**0.01212**
	S	0.01860	0.00100	**0.01043**	0.32940	0.12960	**0.01106**	2.50740	0.60000	**0.01103**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.00738**	0.32940	0.06480	**0.00781**	2.50740	0.30000	**0.00731**
	S	(!A0 * A1)	0.01860	0.00100	**0.00747**	0.32940	0.06480	**0.00758**	2.50740	0.30000	**0.00872**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.01026**	0.32940	0.12960	**0.01117**	2.50740	0.60000	**0.01047**
	S	(!A0 * A1)	0.01860	0.00100	**0.01032**	0.32940	0.12960	**0.01093**	2.50740	0.60000	**0.01154**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.00765**	0.32940	0.06480	**0.00791**	2.50740	0.30000	**0.00794**
	S	(!A0 * A1)	0.01860	0.00100	**0.00699**	0.32940	0.06480	**0.00730**	2.50740	0.30000	**0.00867**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.01043**	0.32940	0.12960	**0.01106**	2.50740	0.60000	**0.01103**
	S	(!A0 * A1)	0.01860	0.00100	**0.00974**	0.32940	0.12960	**0.01042**	2.50740	0.60000	**0.01135**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00312**	0.32940	**0.00292**	2.50740	**0.00501**
sg13g2_mux2_2	0.01860	**0.00312**	0.32940	**0.00291**	2.50740	**0.00500**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00332**	0.32940	**0.00308**	2.50740	**0.00513**
sg13g2_mux2_2	0.01860	**0.00333**	0.32940	**0.00309**	2.50740	**0.00513**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	(A0 * A1)	0.01860	**0.00304**	0.32940	**0.00272**	2.50740	**0.00481**
	(!A0 * !A1)	0.01860	**0.00312**	0.32940	**0.00292**	2.50740	**0.00501**
sg13g2_mux2_2	(A0 * A1)	0.01860	**0.00304**	0.32940	**0.00271**	2.50740	**0.00480**
	(!A0 * !A1)	0.01860	**0.00312**	0.32940	**0.00291**	2.50740	**0.00500**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	**(A0 * A1)**	0.01860	**0.00301**	0.32940	**0.00285**	2.50740	**0.00492**
	(!A0 * !A1)	0.01860	**0.00332**	0.32940	**0.00308**	2.50740	**0.00513**
sg13g2_mux2_2	**(A0 * A1)**	0.01860	**0.00302**	0.32940	**0.00286**	2.50740	**0.00492**
	(!A0 * !A1)	0.01860	**0.00333**	0.32940	**0.00309**	2.50740	**0.00513**

MUX4

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00256	0.00254	0.00256	0.00262	0.00782	0.00473	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	997.58000	2353.50000	3423.64000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.22151**	0.32940	0.06480	**0.66243**	2.50740	0.30000	**2.15334**
	A1->X (RR)	0.01860	0.00100	**0.21204**	0.32940	0.06480	**0.65907**	2.50740	0.30000	**2.14723**
	A2->X (RR)	0.01860	0.00100	**0.23153**	0.32940	0.06480	**0.67798**	2.50740	0.30000	**2.18850**
	A3->X (RR)	0.01860	0.00100	**0.22315**	0.32940	0.06480	**0.67415**	2.50740	0.30000	**2.18409**
	S0->X (-R)	0.01860	0.00100	**0.19533**	0.32940	0.06480	**0.64828**	2.50740	0.30000	**2.12216**
	S1->X (-R)	0.01860	0.00100	**0.11124**	0.32940	0.06480	**0.53202**	2.50740	0.30000	**1.84943**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.24863**	0.32940	0.06480	**0.66445**	2.50740	0.30000	**1.94393**
	A1->X (FF)	0.01860	0.00100	**0.25199**	0.32940	0.06480	**0.66470**	2.50740	0.30000	**1.94415**
	A2->X (FF)	0.01860	0.00100	**0.26739**	0.32940	0.06480	**0.68705**	2.50740	0.30000	**1.98643**
	A3->X (FF)	0.01860	0.00100	**0.26933**	0.32940	0.06480	**0.68659**	2.50740	0.30000	**1.98402**
	S0->X (-F)	0.01860	0.00100	**0.23375**	0.32940	0.06480	**0.66007**	2.50740	0.30000	**1.95938**
	S1->X (-F)	0.01860	0.00100	**0.16536**	0.32940	0.06480	**0.56870**	2.50740	0.30000	**1.70304**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.19533**	0.32940	0.06480	**0.64828**	2.50740	0.30000	**2.12216**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.18186**	0.32940	0.06480	**0.62681**	2.50740	0.30000	**2.07165**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.28081**	0.32940	0.06480	**0.72149**	2.50740	0.30000	**2.05834**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.27033**	0.32940	0.06480	**0.70814**	2.50740	0.30000	**2.03824**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.11158**	0.32940	0.06480	**0.53202**	2.50740	0.30000	**1.84916**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.11124**	0.32940	0.06480	**0.53202**	2.50740	0.30000	**1.84943**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.14908**	0.32940	0.06480	**0.56594**	2.50740	0.30000	**1.80749**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.14852**	0.32940	0.06480	**0.56541**	2.50740	0.30000	**1.80722**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.23375**	0.32940	0.06480	**0.66007**	2.50740	0.30000	**1.95938**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.21130**	0.32940	0.06480	**0.63049**	2.50740	0.30000	**1.89975**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.30511**	0.32940	0.06480	**0.73451**	2.50740	0.30000	**1.95318**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.28711**	0.32940	0.06480	**0.71158**	2.50740	0.30000	**1.92569**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.13528**	0.32940	0.06480	**0.52950**	2.50740	0.30000	**1.68161**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.13503**	0.32940	0.06480	**0.52932**	2.50740	0.30000	**1.68134**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.16510**	0.32940	0.06480	**0.56899**	2.50740	0.30000	**1.70293**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.16536**	0.32940	0.06480	**0.56870**	2.50740	0.30000	**1.70304**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0	0.01860	0.00100	**0.01470**	0.32940	0.06480	**0.01484**	2.50740	0.30000	**0.01560**
	A1	0.01860	0.00100	**0.00949**	0.32940	0.06480	**0.00961**	2.50740	0.30000	**0.01035**
	A2	0.01860	0.00100	**0.01470**	0.32940	0.06480	**0.01488**	2.50740	0.30000	**0.01553**
	A3	0.01860	0.00100	**0.00971**	0.32940	0.06480	**0.00984**	2.50740	0.30000	**0.01056**
	S0	0.01860	0.00100	**0.00502**	0.32940	0.06480	**0.00389**	2.50740	0.30000	**0.00559**
	S1	0.01860	0.00100	**0.00582**	0.32940	0.06480	**0.00666**	2.50740	0.30000	**0.00823**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0	0.01860	0.00100	**0.00940**	0.32940	0.06480	**0.00960**	2.50740	0.30000	**0.01050**
	A1	0.01860	0.00100	**0.00978**	0.32940	0.06480	**0.00997**	2.50740	0.30000	**0.01096**
	A2	0.01860	0.00100	**0.01011**	0.32940	0.06480	**0.01030**	2.50740	0.30000	**0.01130**
	A3	0.01860	0.00100	**0.01007**	0.32940	0.06480	**0.01026**	2.50740	0.30000	**0.01117**
	S0	0.01860	0.00100	**0.00493**	0.32940	0.06480	**0.00682**	2.50740	0.30000	**0.01152**
	S1	0.01860	0.00100	**0.00387**	0.32940	0.06480	**0.00407**	2.50740	0.30000	**0.00624**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.00924**	0.32940	0.06480	**0.00949**	2.50740	0.30000	**0.00911**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.00919**	0.32940	0.06480	**0.00954**	2.50740	0.30000	**0.00904**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00502**	0.32940	0.06480	**0.00389**	2.50740	0.30000	**0.00559**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00262**	0.32940	0.06480	**0.00033**	2.50740	0.30000	**0.00431**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00582**	0.32940	0.06480	**0.00666**	2.50740	0.30000	**0.00823**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00620**	0.32940	0.06480	**0.00705**	2.50740	0.30000	**0.00839**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00378**	0.32940	0.06480	**0.00395**	2.50740	0.30000	**0.00561**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00384**	0.32940	0.06480	**0.00401**	2.50740	0.30000	**0.00561**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.01010**	0.32940	0.06480	**0.01034**	2.50740	0.30000	**0.01008**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.00973**	0.32940	0.06480	**0.01071**	2.50740	0.30000	**0.01048**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00548**	0.32940	0.06480	**0.00633**	2.50740	0.30000	**0.01117**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00493**	0.32940	0.06480	**0.00682**	2.50740	0.30000	**0.01152**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00623**	0.32940	0.06480	**0.00715**	2.50740	0.30000	**0.00905**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00629**	0.32940	0.06480	**0.00720**	2.50740	0.30000	**0.00912**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00368**	0.32940	0.06480	**0.00391**	2.50740	0.30000	**0.00598**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00387**	0.32940	0.06480	**0.00407**	2.50740	0.30000	**0.00624**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.01130**	0.32940	**0.01322**	2.50740	**0.01579**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.01023**	0.32940	**0.01002**	2.50740	**0.01217**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.01130**	0.32940	**0.01322**	2.50740	**0.01579**
	(A0 * A1 * !S1)	0.01860	**0.01139**	0.32940	**0.01411**	2.50740	**0.01656**
	(!A2 * !A3 * S1)	0.01860	**0.00652**	0.32940	**0.00615**	2.50740	**0.01124**
	(!A0 * !A1 * !S1)	0.01860	**0.00733**	0.32940	**0.00685**	2.50740	**0.01183**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00980**	0.32940	**0.00952**	2.50740	**0.01168**
	(A0 * A1 * !S1)	0.01860	**0.01023**	0.32940	**0.01002**	2.50740	**0.01217**
	(!A2 * !A3 * S1)	0.01860	**0.00972**	0.32940	**0.00941**	2.50740	**0.01154**
	(!A0 * !A1 * !S1)	0.01860	**0.01169**	0.32940	**0.01478**	2.50740	**0.01697**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00330**	0.32940	**0.00318**	2.50740	**0.00592**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00319**	0.32940	**0.00315**	2.50740	**0.00589**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00257**	0.32940	**0.00246**	2.50740	**0.00520**
	(A0 * A2 * !S0)	0.01860	**0.00257**	0.32940	**0.00246**	2.50740	**0.00519**
	(!A1 * !A3 * S0)	0.01860	**0.00330**	0.32940	**0.00318**	2.50740	**0.00592**
	(!A0 * !A2 * !S0)	0.01860	**0.00333**	0.32940	**0.00322**	2.50740	**0.00597**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00246**	0.32940	**0.00244**	2.50740	**0.00528**
	(A0 * A2 * !S0)	0.01860	**0.00246**	0.32940	**0.00244**	2.50740	**0.00527**
	(!A1 * !A3 * S0)	0.01860	**0.00319**	0.32940	**0.00315**	2.50740	**0.00589**
	(!A0 * !A2 * !S0)	0.01860	**0.00323**	0.32940	**0.00318**	2.50740	**0.00591**

NAND2Bx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_1	9.07200
sg13g2_nand2b_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00209	0.00283	0.30000
sg13g2_nand2b_2	0.00206	0.00529	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	215.73000	541.44500	1046.64000
sg13g2_nand2b_2	360.32300	852.36700	2001.46000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.07817**	0.32940	0.06480	**0.47937**	2.50740	0.30000	**1.78877**
	B->Y (FR)	0.01860	0.00100	**0.03643**	0.32940	0.06480	**0.49822**	2.50740	0.30000	**2.70774**
sg13g2_nand2b_2	A_N->Y (RR)	0.01860	0.00100	**0.10281**	0.32940	0.12960	**0.53005**	2.50740	0.60000	**1.91612**
	B->Y (FR)	0.01860	0.00100	**0.02763**	0.32940	0.12960	**0.49070**	2.50740	0.60000	**2.69952**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.09425**	0.32940	0.06480	**0.64510**	2.50740	0.30000	**2.46845**
	B->Y (RF)	0.01860	0.00100	**0.05694**	0.32940	0.06480	**0.64842**	2.50740	0.30000	**3.29969**
sg13g2_nand2b_2	A_N->Y (FF)	0.01860	0.00100	**0.12757**	0.32940	0.12960	**0.72749**	2.50740	0.60000	**2.72480**
	B->Y (RF)	0.01860	0.00100	**0.04004**	0.32940	0.12960	**0.66780**	2.50740	0.60000	**3.49744**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00180**	0.32940	0.06480	**0.00198**	2.50740	0.30000	**0.00122**
	B	0.01860	0.00100	**0.00179**	0.32940	0.06480	**0.00170**	2.50740	0.30000	**0.00140**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.00310**	0.32940	0.12960	**0.00326**	2.50740	0.60000	**0.00201**
	B	0.01860	0.00100	**0.00248**	0.32940	0.12960	**0.00283**	2.50740	0.60000	**0.00224**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00322**	0.32940	0.06480	**0.00333**	2.50740	0.30000	**0.00269**
	B	0.01860	0.00100	**0.00334**	0.32940	0.06480	**0.00328**	2.50740	0.30000	**0.00301**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.00673**	0.32940	0.12960	**0.00726**	2.50740	0.60000	**0.00665**
	B	0.01860	0.00100	**0.00382**	0.32940	0.12960	**0.00391**	2.50740	0.60000	**0.00379**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00307**	0.32940	**0.00296**	2.50740	**0.00514**
sg13g2_nand2b_2	0.01860	**0.00528**	0.32940	**0.00497**	2.50740	**0.00676**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00198**	0.32940	**0.00187**	2.50740	**0.00398**
sg13g2_nand2b_2	0.01860	**0.00463**	0.32940	**0.00441**	2.50740	**0.00623**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00307**	0.32940	**0.00296**	2.50740	**0.00514**
sg13g2_nand2b_2	**!B**	0.01860	**0.00528**	0.32940	**0.00497**	2.50740	**0.00676**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00198**	0.32940	**0.00187**	2.50740	**0.00398**
sg13g2_nand2b_2	**!B**	0.01860	**0.00463**	0.32940	**0.00441**	2.50740	**0.00623**

NAND2x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2_1	7.25760
sg13g2_nand2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_1	0.00272	0.00279	0.30000
sg13g2_nand2_2	0.00527	0.00534	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	45.54620	316.19300	955.36800
sg13g2_nand2_2	88.79480	627.16600	1910.22000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.03144**	0.32940	0.06480	**0.49156**	2.50740	0.30000	**2.69915**
	B->Y (FR)	0.01860	0.00100	**0.03675**	0.32940	0.06480	**0.49747**	2.50740	0.30000	**2.70620**
sg13g2_nand2_2	A->Y (FR)	0.01860	0.00100	**0.02794**	0.32940	0.12960	**0.49145**	2.50740	0.60000	**2.70126**
	B->Y (FR)	0.01860	0.00100	**0.03373**	0.32940	0.12960	**0.49787**	2.50740	0.60000	**2.71013**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.04456**	0.32940	0.06480	**0.65010**	2.50740	0.30000	**3.41195**
	B->Y (RF)	0.01860	0.00100	**0.05219**	0.32940	0.06480	**0.64371**	2.50740	0.30000	**3.29233**
sg13g2_nand2_2	A->Y (RF)	0.01860	0.00100	**0.04047**	0.32940	0.12960	**0.66751**	2.50740	0.60000	**3.49634**
	B->Y (RF)	0.01860	0.00100	**0.04949**	0.32940	0.12960	**0.66226**	2.50740	0.60000	**3.37730**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00145**	0.32940	0.06480	**0.00155**	2.50740	0.30000	**0.00124**
	B	0.01860	0.00100	**0.00168**	0.32940	0.06480	**0.00164**	2.50740	0.30000	**0.00130**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00250**	0.32940	0.12960	**0.00277**	2.50740	0.60000	**0.00224**
	B	0.01860	0.00100	**0.00337**	0.32940	0.12960	**0.00330**	2.50740	0.60000	**0.00273**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00203**	0.32940	0.06480	**0.00203**	2.50740	0.30000	**0.00191**
	B	0.01860	0.00100	**0.00332**	0.32940	0.06480	**0.00326**	2.50740	0.30000	**0.00304**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00383**	0.32940	0.12960	**0.00395**	2.50740	0.60000	**0.00369**
	B	0.01860	0.00100	**0.00635**	0.32940	0.12960	**0.00626**	2.50740	0.60000	**0.00594**

NAND3B

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00207	0.00278	0.00280	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	138.73100	476.68900	1524.28000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.08280**	0.32940	0.06480	**0.48225**	2.50740	0.30000	**1.78784**
	B->Y (FR)	0.01860	0.00100	**0.04133**	0.32940	0.06480	**0.50271**	2.50740	0.30000	**2.71270**
	C->Y (FR)	0.01860	0.00100	**0.04462**	0.32940	0.06480	**0.50777**	2.50740	0.30000	**2.71796**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.11710**	0.32940	0.06480	**0.86202**	2.50740	0.30000	**3.40626**
	B->Y (RF)	0.01860	0.00100	**0.08766**	0.32940	0.06480	**0.86583**	2.50740	0.30000	**4.19727**
	C->Y (RF)	0.01860	0.00100	**0.09386**	0.32940	0.06480	**0.85715**	2.50740	0.30000	**4.03595**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00181**	0.32940	0.06480	**0.00196**	2.50740	0.30000	**0.00116**
	B	0.01860	0.00100	**0.00195**	0.32940	0.06480	**0.00191**	2.50740	0.30000	**0.00154**
	C	0.01860	0.00100	**0.00215**	0.32940	0.06480	**0.00204**	2.50740	0.30000	**0.00167**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00448**	0.32940	0.06480	**0.00470**	2.50740	0.30000	**0.00450**
	B	0.01860	0.00100	**0.00439**	0.32940	0.06480	**0.00436**	2.50740	0.30000	**0.00456**
	C	0.01860	0.00100	**0.00551**	0.32940	0.06480	**0.00543**	2.50740	0.30000	**0.00549**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00317**	0.32940	**0.00305**	2.50740	**0.00524**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00181**	0.32940	**0.00169**	2.50740	**0.00381**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00317**	0.32940	**0.00305**	2.50740	**0.00524**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00181**	0.32940	**0.00169**	2.50740	**0.00381**

NAND3

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00272	0.00282	0.00279	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	38.55740	251.45900	1433.05000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (FR)	0.01860	0.00100	**0.03591**	0.32940	0.06480	**0.49605**	2.50740	0.30000	**2.70471**
	B->Y (FR)	0.01860	0.00100	**0.04162**	0.32940	0.06480	**0.50220**	2.50740	0.30000	**2.71170**
	C->Y (FR)	0.01860	0.00100	**0.04421**	0.32940	0.06480	**0.50730**	2.50740	0.30000	**2.71730**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (RF)	0.01860	0.00100	**0.06872**	0.32940	0.06480	**0.85383**	2.50740	0.30000	**4.25251**
	B->Y (RF)	0.01860	0.00100	**0.08298**	0.32940	0.06480	**0.86113**	2.50740	0.30000	**4.18991**
	C->Y (RF)	0.01860	0.00100	**0.08906**	0.32940	0.06480	**0.85235**	2.50740	0.30000	**4.02846**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00157**	0.32940	0.06480	**0.00164**	2.50740	0.30000	**0.00130**
	B	0.01860	0.00100	**0.00181**	0.32940	0.06480	**0.00168**	2.50740	0.30000	**0.00135**
	C	0.01860	0.00100	**0.00203**	0.32940	0.06480	**0.00187**	2.50740	0.30000	**0.00152**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00312**	0.32940	0.06480	**0.00311**	2.50740	0.30000	**0.00335**
	B	0.01860	0.00100	**0.00443**	0.32940	0.06480	**0.00438**	2.50740	0.30000	**0.00456**
	C	0.01860	0.00100	**0.00551**	0.32940	0.06480	**0.00547**	2.50740	0.30000	**0.00562**

NAND4

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00271	0.00282	0.00284	0.00281	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	39.19550	184.41800	1910.79000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (FR)	0.01860	0.00100	**0.03825**	0.32940	0.06480	**0.49846**	2.50740	0.30000	**2.70879**
	B->Y (FR)	0.01860	0.00100	**0.04410**	0.32940	0.06480	**0.50477**	2.50740	0.30000	**2.71443**
	C->Y (FR)	0.01860	0.00100	**0.04731**	0.32940	0.06480	**0.51030**	2.50740	0.30000	**2.72280**
	D->Y (FR)	0.01860	0.00100	**0.04832**	0.32940	0.06480	**0.51472**	2.50740	0.30000	**2.72934**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (RF)	0.01860	0.00100	**0.09172**	0.32940	0.06480	**1.06256**	2.50740	0.30000	**5.11221**
	B->Y (RF)	0.01860	0.00100	**0.11324**	0.32940	0.06480	**1.08153**	2.50740	0.30000	**5.09386**
	C->Y (RF)	0.01860	0.00100	**0.12562**	0.32940	0.06480	**1.08256**	2.50740	0.30000	**4.96384**
	D->Y (RF)	0.01860	0.00100	**0.13153**	0.32940	0.06480	**1.08288**	2.50740	0.30000	**4.85366**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00160**	0.32940	0.06480	**0.00169**	2.50740	0.30000	**0.00135**
	B	0.01860	0.00100	**0.00184**	0.32940	0.06480	**0.00175**	2.50740	0.30000	**0.00138**
	C	0.01860	0.00100	**0.00209**	0.32940	0.06480	**0.00189**	2.50740	0.30000	**0.00157**
	D	0.01860	0.00100	**0.00229**	0.32940	0.06480	**0.00211**	2.50740	0.30000	**0.00182**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00376**	0.32940	0.06480	**0.00373**	2.50740	0.30000	**0.00351**
	B	0.01860	0.00100	**0.00504**	0.32940	0.06480	**0.00490**	2.50740	0.30000	**0.00463**
	C	0.01860	0.00100	**0.00616**	0.32940	0.06480	**0.00602**	2.50740	0.30000	**0.00573**
	D	0.01860	0.00100	**0.00723**	0.32940	0.06480	**0.00714**	2.50740	0.30000	**0.00677**

NOR2Bx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2b_1	9.07200
sg13g2_nor2b_2	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B_N	Y
sg13g2_nor2b_1	0.00276	0.00212	0.30000
sg13g2_nor2b_2	0.00535	0.00251	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_1	342.14900	634.14600	843.06700
sg13g2_nor2b_2	612.90500	1082.38000	1394.65000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.05237**	0.32940	0.06480	**0.78416**	2.50740	0.30000	**3.96498**
	B_N->Y (RR)	0.01860	0.00100	**0.10852**	0.32940	0.06480	**0.80838**	2.50740	0.30000	**3.22544**
sg13g2_nor2b_2	A->Y (FR)	0.01860	0.00100	**0.04470**	0.32940	0.12960	**0.78212**	2.50740	0.60000	**3.96169**
	B_N->Y (RR)	0.01860	0.00100	**0.11884**	0.32940	0.12960	**0.84095**	2.50740	0.60000	**3.31257**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.03040**	0.32940	0.06480	**0.46336**	2.50740	0.30000	**2.58525**
	B_N->Y (FF)	0.01860	0.00100	**0.08777**	0.32940	0.06480	**0.44810**	2.50740	0.30000	**1.56625**
sg13g2_nor2b_2	A->Y (RF)	0.01860	0.00100	**0.02758**	0.32940	0.12960	**0.47275**	2.50740	0.60000	**2.63983**
	B_N->Y (FF)	0.01860	0.00100	**0.10429**	0.32940	0.12960	**0.49403**	2.50740	0.60000	**1.69698**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00182**	0.32940	0.06480	**0.00183**	2.50740	0.30000	**0.00200**
	B_N	0.01860	0.00100	**0.00378**	0.32940	0.06480	**0.00379**	2.50740	0.30000	**0.00380**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00358**	0.32940	0.12960	**0.00374**	2.50740	0.60000	**0.00413**
	B_N	0.01860	0.00100	**0.00735**	0.32940	0.12960	**0.00756**	2.50740	0.60000	**0.00767**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00162**	0.32940	0.06480	**0.00166**	2.50740	0.30000	**0.00144**
	B_N	0.01860	0.00100	**0.00194**	0.32940	0.06480	**0.00189**	2.50740	0.30000	**0.00152**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00252**	0.32940	0.12960	**0.00277**	2.50740	0.60000	**0.00220**
	B_N	0.01860	0.00100	**0.00355**	0.32940	0.12960	**0.00366**	2.50740	0.60000	**0.00251**

Passive power(pJ) for B_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00295**	0.32940	**0.00278**	2.50740	**0.00490**
sg13g2_nor2b_2	0.01860	**0.00500**	0.32940	**0.00473**	2.50740	**0.00709**

Passive power(pJ) for B_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00299**	0.32940	**0.00283**	2.50740	**0.00485**
sg13g2_nor2b_2	0.01860	**0.00500**	0.32940	**0.00476**	2.50740	**0.00697**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00295**	0.32940	**0.00278**	2.50740	**0.00490**
sg13g2_nor2b_2	**A**	0.01860	**0.00500**	0.32940	**0.00473**	2.50740	**0.00709**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00299**	0.32940	**0.00283**	2.50740	**0.00485**
sg13g2_nor2b_2	**A**	0.01860	**0.00500**	0.32940	**0.00476**	2.50740	**0.00697**

NOR2x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2_1	7.25760
sg13g2_nor2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_1	0.00284	0.00276	0.30000
sg13g2_nor2_2	0.00540	0.00527	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	250.90500	408.94600	630.63300
sg13g2_nor2_2	501.84400	817.90200	1261.26000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.06143**	0.32940	0.06480	**0.77408**	2.50740	0.30000	**3.78247**
	B->Y (FR)	0.01860	0.00100	**0.05258**	0.32940	0.06480	**0.78365**	2.50740	0.30000	**3.96350**
sg13g2_nor2_2	A->Y (FR)	0.01860	0.00100	**0.05725**	0.32940	0.06480	**0.48226**	2.50740	0.30000	**2.37841**
	B->Y (FR)	0.01860	0.00100	**0.04521**	0.32940	0.06480	**0.48813**	2.50740	0.30000	**2.54426**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.03513**	0.32940	0.06480	**0.46908**	2.50740	0.30000	**2.59282**
	B->Y (RF)	0.01860	0.00100	**0.03051**	0.32940	0.06480	**0.46342**	2.50740	0.30000	**2.58520**
sg13g2_nor2_2	A->Y (RF)	0.01860	0.00100	**0.03274**	0.32940	0.06480	**0.33229**	2.50740	0.30000	**1.82429**
	B->Y (RF)	0.01860	0.00100	**0.02719**	0.32940	0.06480	**0.32412**	2.50740	0.30000	**1.81327**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00342**	0.32940	0.06480	**0.00334**	2.50740	0.30000	**0.00363**
	B	0.01860	0.00100	**0.00183**	0.32940	0.06480	**0.00185**	2.50740	0.30000	**0.00204**
sg13g2_nor2_2	A	0.01860	0.00100	**0.00692**	0.32940	0.06480	**0.00689**	2.50740	0.30000	**0.00692**
	B	0.01860	0.00100	**0.00365**	0.32940	0.06480	**0.00376**	2.50740	0.30000	**0.00429**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00179**	0.32940	0.06480	**0.00160**	2.50740	0.30000	**0.00148**
	B	0.01860	0.00100	**0.00162**	0.32940	0.06480	**0.00166**	2.50740	0.30000	**0.00145**
sg13g2_nor2_2	A	0.01860	0.00100	**0.00361**	0.32940	0.06480	**0.00335**	2.50740	0.30000	**0.00424**
	B	0.01860	0.00100	**0.00246**	0.32940	0.06480	**0.00271**	2.50740	0.30000	**0.00363**

NOR3x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor3_1	9.07200
sg13g2_nor3_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_1	0.00281	0.00283	0.00274	0.30000
sg13g2_nor3_2	0.00536	0.00537	0.00526	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	218.47100	471.46400	815.12200
sg13g2_nor3_2	435.65700	936.23400	1629.82000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.11625**	0.32940	0.06480	**1.11034**	2.50740	0.30000	**5.00753**
	B->Y (FR)	0.01860	0.00100	**0.10888**	0.32940	0.06480	**1.11326**	2.50740	0.30000	**5.17843**
	C->Y (FR)	0.01860	0.00100	**0.08545**	0.32940	0.06480	**1.09862**	2.50740	0.30000	**5.26933**
sg13g2_nor3_2	A->Y (FR)	0.01860	0.00100	**0.10452**	0.32940	0.12960	**1.10954**	2.50740	0.60000	**5.01661**
	B->Y (FR)	0.01860	0.00100	**0.09760**	0.32940	0.12960	**1.11367**	2.50740	0.60000	**5.18981**
	C->Y (FR)	0.01860	0.00100	**0.07082**	0.32940	0.12960	**1.09588**	2.50740	0.60000	**5.27778**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.03934**	0.32940	0.06480	**0.46713**	2.50740	0.30000	**2.54357**
	B->Y (RF)	0.01860	0.00100	**0.03856**	0.32940	0.06480	**0.46254**	2.50740	0.30000	**2.53923**
	C->Y (RF)	0.01860	0.00100	**0.03329**	0.32940	0.06480	**0.45599**	2.50740	0.30000	**2.53094**
sg13g2_nor3_2	A->Y (RF)	0.01860	0.00100	**0.03672**	0.32940	0.12960	**0.47839**	2.50740	0.60000	**2.60464**
	B->Y (RF)	0.01860	0.00100	**0.03629**	0.32940	0.12960	**0.47275**	2.50740	0.60000	**2.59951**
	C->Y (RF)	0.01860	0.00100	**0.03016**	0.32940	0.12960	**0.46600**	2.50740	0.60000	**2.58996**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.00579**	0.32940	0.06480	**0.00566**	2.50740	0.30000	**0.00566**
	B	0.01860	0.00100	**0.00440**	0.32940	0.06480	**0.00429**	2.50740	0.30000	**0.00427**
	C	0.01860	0.00100	**0.00285**	0.32940	0.06480	**0.00279**	2.50740	0.30000	**0.00300**
sg13g2_nor3_2	A	0.01860	0.00100	**0.01118**	0.32940	0.12960	**0.01098**	2.50740	0.60000	**0.01098**
	B	0.01860	0.00100	**0.00839**	0.32940	0.12960	**0.00820**	2.50740	0.60000	**0.00808**
	C	0.01860	0.00100	**0.00519**	0.32940	0.12960	**0.00516**	2.50740	0.60000	**0.00527**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.00242**	0.32940	0.06480	**0.00216**	2.50740	0.30000	**0.00206**
	B	0.01860	0.00100	**0.00213**	0.32940	0.06480	**0.00194**	2.50740	0.30000	**0.00184**
	C	0.01860	0.00100	**0.00171**	0.32940	0.06480	**0.00176**	2.50740	0.30000	**0.00169**
sg13g2_nor3_2	A	0.01860	0.00100	**0.00443**	0.32940	0.12960	**0.00394**	2.50740	0.60000	**0.00344**
	B	0.01860	0.00100	**0.00396**	0.32940	0.12960	**0.00362**	2.50740	0.60000	**0.00321**
	C	0.01860	0.00100	**0.00268**	0.32940	0.12960	**0.00295**	2.50740	0.60000	**0.00256**

NOR4x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor4_1	10.88640
sg13g2_nor4_2	21.77280

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_1	0.00278	0.00281	0.00278	0.00268	0.30000
sg13g2_nor4_2	0.00536	0.00533	0.00530	0.00522	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	209.16800	447.98500	995.88700
sg13g2_nor4_2	418.34500	895.97500	1991.75000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.17619**	0.32940	0.06480	**1.46474**	2.50740	0.30000	**6.33764**
	B->Y (FR)	0.01860	0.00100	**0.16987**	0.32940	0.06480	**1.46098**	2.50740	0.30000	**6.44856**
	C->Y (FR)	0.01860	0.00100	**0.15077**	0.32940	0.06480	**1.44811**	2.50740	0.30000	**6.57651**
	D->Y (FR)	0.01860	0.00100	**0.11252**	0.32940	0.06480	**1.41501**	2.50740	0.30000	**6.61385**
sg13g2_nor4_2	A->Y (FR)	0.01860	0.00100	**0.16876**	0.32940	0.12960	**1.47316**	2.50740	0.60000	**6.36269**
	B->Y (FR)	0.01860	0.00100	**0.16238**	0.32940	0.12960	**1.46974**	2.50740	0.60000	**6.47467**
	C->Y (FR)	0.01860	0.00100	**0.14067**	0.32940	0.12960	**1.45323**	2.50740	0.60000	**6.59872**
	D->Y (FR)	0.01860	0.00100	**0.09734**	0.32940	0.12960	**1.41434**	2.50740	0.60000	**6.63194**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.04201**	0.32940	0.06480	**0.48612**	2.50740	0.30000	**2.61594**
	B->Y (RF)	0.01860	0.00100	**0.04313**	0.32940	0.06480	**0.48259**	2.50740	0.30000	**2.61250**
	C->Y (RF)	0.01860	0.00100	**0.04136**	0.32940	0.06480	**0.47684**	2.50740	0.30000	**2.60436**
	D->Y (RF)	0.01860	0.00100	**0.03568**	0.32940	0.06480	**0.46979**	2.50740	0.30000	**2.59523**
sg13g2_nor4_2	A->Y (RF)	0.01860	0.00100	**0.03884**	0.32940	0.12960	**0.48647**	2.50740	0.60000	**2.61690**
	B->Y (RF)	0.01860	0.00100	**0.04019**	0.32940	0.12960	**0.48257**	2.50740	0.60000	**2.61146**
	C->Y (RF)	0.01860	0.00100	**0.03869**	0.32940	0.12960	**0.47641**	2.50740	0.60000	**2.60278**
	D->Y (RF)	0.01860	0.00100	**0.03264**	0.32940	0.12960	**0.46757**	2.50740	0.60000	**2.59104**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.00748**	0.32940	0.06480	**0.00735**	2.50740	0.30000	**0.00729**
	B	0.01860	0.00100	**0.00613**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.00591**
	C	0.01860	0.00100	**0.00479**	0.32940	0.06480	**0.00465**	2.50740	0.30000	**0.00465**
	D	0.01860	0.00100	**0.00326**	0.32940	0.06480	**0.00320**	2.50740	0.30000	**0.00338**
sg13g2_nor4_2	A	0.01860	0.00100	**0.01519**	0.32940	0.12960	**0.01496**	2.50740	0.60000	**0.01476**
	B	0.01860	0.00100	**0.01252**	0.32940	0.12960	**0.01228**	2.50740	0.60000	**0.01226**
	C	0.01860	0.00100	**0.00981**	0.32940	0.12960	**0.00957**	2.50740	0.60000	**0.00973**
	D	0.01860	0.00100	**0.00663**	0.32940	0.12960	**0.00660**	2.50740	0.60000	**0.00688**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.00279**	0.32940	0.06480	**0.00251**	2.50740	0.30000	**0.00221**
	B	0.01860	0.00100	**0.00258**	0.32940	0.06480	**0.00234**	2.50740	0.30000	**0.00207**
	C	0.01860	0.00100	**0.00220**	0.32940	0.06480	**0.00211**	2.50740	0.30000	**0.00184**
	D	0.01860	0.00100	**0.00175**	0.32940	0.06480	**0.00186**	2.50740	0.30000	**0.00161**
sg13g2_nor4_2	A	0.01860	0.00100	**0.00551**	0.32940	0.12960	**0.00495**	2.50740	0.60000	**0.00431**
	B	0.01860	0.00100	**0.00507**	0.32940	0.12960	**0.00459**	2.50740	0.60000	**0.00400**
	C	0.01860	0.00100	**0.00400**	0.32940	0.12960	**0.00383**	2.50740	0.60000	**0.00349**
	D	0.01860	0.00100	**0.00276**	0.32940	0.12960	**0.00304**	2.50740	0.60000	**0.00253**

O21AI

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00313	0.00314	0.00303	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	110.30200	493.34500	1064.94000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (FR)	0.01860	0.00100	**0.09723**	0.32940	0.06480	**0.90823**	2.50740	0.30000	**4.24817**
	A2->Y (FR)	0.01860	0.00100	**0.08640**	0.32940	0.06480	**0.91512**	2.50740	0.30000	**4.45321**
	B1->Y (FR)	0.01860	0.00100	**0.03618**	0.32940	0.06480	**0.54800**	2.50740	0.30000	**2.96478**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (RF)	0.01860	0.00100	**0.07059**	0.32940	0.06480	**0.66383**	2.50740	0.30000	**3.26747**
	A2->Y (RF)	0.01860	0.00100	**0.05945**	0.32940	0.06480	**0.65004**	2.50740	0.30000	**3.24938**
	B1->Y (RF)	0.01860	0.00100	**0.04567**	0.32940	0.06480	**0.65169**	2.50740	0.30000	**3.38798**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03618**	0.32940	0.06480	**0.54800**	2.50740	0.30000	**2.96478**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.04567**	0.32940	0.06480	**0.65169**	2.50740	0.30000	**3.38798**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00414**	0.32940	0.06480	**0.00397**	2.50740	0.30000	**0.00410**
	A2	0.01860	0.00100	**0.00242**	0.32940	0.06480	**0.00222**	2.50740	0.30000	**0.00254**
	B1	0.01860	0.00100	**0.00151**	0.32940	0.06480	**0.00162**	2.50740	0.30000	**0.00152**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00390**	0.32940	0.06480	**0.00367**	2.50740	0.30000	**0.00361**
	A2	0.01860	0.00100	**0.00365**	0.32940	0.06480	**0.00364**	2.50740	0.30000	**0.00351**
	B1	0.01860	0.00100	**0.00208**	0.32940	0.06480	**0.00209**	2.50740	0.30000	**0.00218**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00151**	0.32940	0.06480	**0.00162**	2.50740	0.30000	**0.00152**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00208**	0.32940	0.06480	**0.00209**	2.50740	0.30000	**0.00218**

OR2x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or2_1	9.07200
sg13g2_or2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_1	0.00231	0.00215	0.30000
sg13g2_or2_2	0.00230	0.00215	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	323.45300	522.71900	660.01500
sg13g2_or2_2	458.47700	743.40600	1137.69000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.08504**	0.32940	0.06480	**0.50007**	2.50740	0.30000	**1.84868**
	B->X (RR)	0.01860	0.00100	**0.07832**	0.32940	0.06480	**0.48282**	2.50740	0.30000	**1.79202**
sg13g2_or2_2	A->X (RR)	0.01860	0.00100	**0.10162**	0.32940	0.12960	**0.54414**	2.50740	0.60000	**1.97244**
	B->X (RR)	0.01860	0.00100	**0.09506**	0.32940	0.12960	**0.52936**	2.50740	0.60000	**1.92052**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.14116**	0.32940	0.06480	**0.51579**	2.50740	0.30000	**1.68226**
	B->X (FF)	0.01860	0.00100	**0.13206**	0.32940	0.06480	**0.51126**	2.50740	0.30000	**1.67891**
sg13g2_or2_2	A->X (FF)	0.01860	0.00100	**0.18292**	0.32940	0.12960	**0.59049**	2.50740	0.60000	**1.83601**
	B->X (FF)	0.01860	0.00100	**0.17434**	0.32940	0.12960	**0.59234**	2.50740	0.60000	**1.85422**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.00497**	0.32940	0.06480	**0.00501**	2.50740	0.30000	**0.00626**
	B	0.01860	0.00100	**0.00477**	0.32940	0.06480	**0.00475**	2.50740	0.30000	**0.00595**
sg13g2_or2_2	A	0.01860	0.00100	**0.00797**	0.32940	0.12960	**0.00842**	2.50740	0.60000	**0.00906**
	B	0.01860	0.00100	**0.00777**	0.32940	0.12960	**0.00813**	2.50740	0.60000	**0.00826**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.00592**	0.32940	0.06480	**0.00606**	2.50740	0.30000	**0.00693**
	B	0.01860	0.00100	**0.00482**	0.32940	0.06480	**0.00497**	2.50740	0.30000	**0.00634**
sg13g2_or2_2	A	0.01860	0.00100	**0.00884**	0.32940	0.12960	**0.00931**	2.50740	0.60000	**0.00957**
	B	0.01860	0.00100	**0.00778**	0.32940	0.12960	**0.00820**	2.50740	0.60000	**0.00869**

OR3x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or3_1	12.70080
sg13g2_or3_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_1	0.00241	0.00235	0.00225	0.30000
sg13g2_or3_2	0.00241	0.00235	0.00225	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	327.22500	560.74800	862.22700
sg13g2_or3_2	462.34600	738.67100	1231.97000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.09921**	0.32940	0.06480	**0.53159**	2.50740	0.30000	**1.94542**
	B->X (RR)	0.01860	0.00100	**0.09465**	0.32940	0.06480	**0.51806**	2.50740	0.30000	**1.90333**
	C->X (RR)	0.01860	0.00100	**0.08560**	0.32940	0.06480	**0.49858**	2.50740	0.30000	**1.83952**
sg13g2_or3_2	A->X (RR)	0.01860	0.00100	**0.11518**	0.32940	0.12960	**0.57150**	2.50740	0.60000	**2.05505**
	B->X (RR)	0.01860	0.00100	**0.11023**	0.32940	0.12960	**0.55945**	2.50740	0.60000	**2.01477**
	C->X (RR)	0.01860	0.00100	**0.10142**	0.32940	0.12960	**0.54262**	2.50740	0.60000	**1.95940**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.20494**	0.32940	0.06480	**0.59031**	2.50740	0.30000	**1.74714**
	B->X (FF)	0.01860	0.00100	**0.19851**	0.32940	0.06480	**0.58978**	2.50740	0.30000	**1.77817**
	C->X (FF)	0.01860	0.00100	**0.17651**	0.32940	0.06480	**0.56826**	2.50740	0.30000	**1.75198**
sg13g2_or3_2	A->X (FF)	0.01860	0.00100	**0.25573**	0.32940	0.12960	**0.67602**	2.50740	0.60000	**1.88899**
	B->X (FF)	0.01860	0.00100	**0.24933**	0.32940	0.12960	**0.67795**	2.50740	0.60000	**1.93880**
	C->X (FF)	0.01860	0.00100	**0.22793**	0.32940	0.12960	**0.66103**	2.50740	0.60000	**1.93173**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.00529**	0.32940	0.06480	**0.00531**	2.50740	0.30000	**0.00658**
	B	0.01860	0.00100	**0.00512**	0.32940	0.06480	**0.00507**	2.50740	0.30000	**0.00635**
	C	0.01860	0.00100	**0.00482**	0.32940	0.06480	**0.00475**	2.50740	0.30000	**0.00596**
sg13g2_or3_2	A	0.01860	0.00100	**0.00822**	0.32940	0.12960	**0.00863**	2.50740	0.60000	**0.00940**
	B	0.01860	0.00100	**0.00806**	0.32940	0.12960	**0.00838**	2.50740	0.60000	**0.00911**
	C	0.01860	0.00100	**0.00780**	0.32940	0.12960	**0.00813**	2.50740	0.60000	**0.00820**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.00833**	0.32940	0.06480	**0.00854**	2.50740	0.30000	**0.00897**
	B	0.01860	0.00100	**0.00714**	0.32940	0.06480	**0.00733**	2.50740	0.30000	**0.00825**
	C	0.01860	0.00100	**0.00583**	0.32940	0.06480	**0.00594**	2.50740	0.30000	**0.00727**
sg13g2_or3_2	A	0.01860	0.00100	**0.01134**	0.32940	0.12960	**0.01174**	2.50740	0.60000	**0.01177**
	B	0.01860	0.00100	**0.01016**	0.32940	0.12960	**0.01054**	2.50740	0.60000	**0.01091**
	C	0.01860	0.00100	**0.00886**	0.32940	0.12960	**0.00912**	2.50740	0.60000	**0.00984**

OR4x

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or4_1	14.51520
sg13g2_or4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_1	0.00241	0.00232	0.00229	0.00223	0.30000
sg13g2_or4_2	0.00239	0.00232	0.00229	0.00223	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	318.49400	547.84600	1023.41000
sg13g2_or4_2	453.55100	704.31600	1323.92000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.10422**	0.32940	0.06480	**0.54812**	2.50740	0.30000	**1.99511**
	B->X (RR)	0.01860	0.00100	**0.10258**	0.32940	0.06480	**0.53808**	2.50740	0.30000	**1.95990**
	C->X (RR)	0.01860	0.00100	**0.09633**	0.32940	0.06480	**0.52287**	2.50740	0.30000	**1.90936**
	D->X (RR)	0.01860	0.00100	**0.08728**	0.32940	0.06480	**0.50331**	2.50740	0.30000	**1.84520**
sg13g2_or4_2	A->X (RR)	0.01860	0.00100	**0.12070**	0.32940	0.12960	**0.58610**	2.50740	0.60000	**2.09539**
	B->X (RR)	0.01860	0.00100	**0.11838**	0.32940	0.12960	**0.57678**	2.50740	0.60000	**2.06263**
	C->X (RR)	0.01860	0.00100	**0.11167**	0.32940	0.12960	**0.56332**	2.50740	0.60000	**2.01947**
	D->X (RR)	0.01860	0.00100	**0.10271**	0.32940	0.12960	**0.54538**	2.50740	0.60000	**1.96504**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.28664**	0.32940	0.06480	**0.69581**	2.50740	0.30000	**1.85979**
	B->X (FF)	0.01860	0.00100	**0.28071**	0.32940	0.06480	**0.69147**	2.50740	0.30000	**1.88531**
	C->X (FF)	0.01860	0.00100	**0.25831**	0.32940	0.06480	**0.67084**	2.50740	0.30000	**1.89085**
	D->X (FF)	0.01860	0.00100	**0.22135**	0.32940	0.06480	**0.63444**	2.50740	0.30000	**1.85182**
sg13g2_or4_2	A->X (FF)	0.01860	0.00100	**0.35386**	0.32940	0.12960	**0.80420**	2.50740	0.60000	**2.01590**
	B->X (FF)	0.01860	0.00100	**0.34765**	0.32940	0.12960	**0.80048**	2.50740	0.60000	**2.05813**
	C->X (FF)	0.01860	0.00100	**0.32613**	0.32940	0.12960	**0.78135**	2.50740	0.60000	**2.07862**
	D->X (FF)	0.01860	0.00100	**0.28954**	0.32940	0.12960	**0.74811**	2.50740	0.60000	**2.05582**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.00583**	0.32940	0.06480	**0.00583**	2.50740	0.30000	**0.00692**
	B	0.01860	0.00100	**0.00560**	0.32940	0.06480	**0.00558**	2.50740	0.30000	**0.00671**
	C	0.01860	0.00100	**0.00512**	0.32940	0.06480	**0.00510**	2.50740	0.30000	**0.00622**
	D	0.01860	0.00100	**0.00482**	0.32940	0.06480	**0.00483**	2.50740	0.30000	**0.00577**
sg13g2_or4_2	A	0.01860	0.00100	**0.00876**	0.32940	0.12960	**0.00925**	2.50740	0.60000	**0.00935**
	B	0.01860	0.00100	**0.00854**	0.32940	0.12960	**0.00902**	2.50740	0.60000	**0.00943**
	C	0.01860	0.00100	**0.00806**	0.32940	0.12960	**0.00851**	2.50740	0.60000	**0.00910**
	D	0.01860	0.00100	**0.00781**	0.32940	0.12960	**0.00805**	2.50740	0.60000	**0.00818**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.00975**	0.32940	0.06480	**0.00995**	2.50740	0.30000	**0.01015**
	B	0.01860	0.00100	**0.00863**	0.32940	0.06480	**0.00880**	2.50740	0.30000	**0.00911**
	C	0.01860	0.00100	**0.00741**	0.32940	0.06480	**0.00759**	2.50740	0.30000	**0.00823**
	D	0.01860	0.00100	**0.00608**	0.32940	0.06480	**0.00620**	2.50740	0.30000	**0.00743**
sg13g2_or4_2	A	0.01860	0.00100	**0.01301**	0.32940	0.12960	**0.01313**	2.50740	0.60000	**0.01325**
	B	0.01860	0.00100	**0.01186**	0.32940	0.12960	**0.01206**	2.50740	0.60000	**0.01180**
	C	0.01860	0.00100	**0.01069**	0.32940	0.12960	**0.01085**	2.50740	0.60000	**0.01102**
	D	0.01860	0.00100	**0.00936**	0.32940	0.12960	**0.00950**	2.50740	0.60000	**0.01012**

SDFBBP

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	CLK	D	RESET_B	SCD	SCE	SET_B	Q	Q_N
sg13g2_sdfbbp_1	0.00283	0.00188	0.00163	0.00184	0.00334	0.00493	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	2507.40000	3658.31000	4660.45000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.47634**	0.32940	0.06480	**0.88263**	2.50740	0.30000	**2.22409**
	SET_B->Q (FR)	0.01860	0.00100	**0.18817**	0.32940	0.06480	**0.61180**	2.50740	0.30000	**2.01409**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.39002**	0.32940	0.06480	**0.75949**	2.50740	0.30000	**1.96712**
	RESET_B->Q (FF)	0.01860	0.00100	**0.32105**	0.32940	0.06480	**0.70443**	2.50740	0.30000	**1.95737**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.47634**	0.32940	0.06480	**0.88263**	2.50740	0.30000	**2.22409**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.39002**	0.32940	0.06480	**0.75949**	2.50740	0.30000	**1.96712**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.32021**	0.32940	0.06480	**0.75921**	2.50740	0.30000	**2.12301**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.24950**	0.32940	0.06480	**0.71499**	2.50740	0.30000	**2.12626**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.39504**	0.32940	0.06480	**0.82508**	2.50740	0.30000	**2.01816**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.12299**	0.32940	0.06480	**0.54394**	2.50740	0.30000	**1.83637**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.32021**	0.32940	0.06480	**0.75921**	2.50740	0.30000	**2.12301**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.39504**	0.32940	0.06480	**0.82508**	2.50740	0.30000	**2.01816**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.15991**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.20798**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.15649**	1.26300	1.26300	**-0.37237**	2.50740	2.50740	**-0.49881**
	setup	**CLK (R)**	0.01860	0.01860	**0.21029**	1.26300	1.26300	**0.41555**	2.50740	2.50740	**0.54899**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.16138**	1.26300	1.26300	**-0.23206**	2.50740	2.50740	**-0.28630**
	setup	**CLK (R)**	0.01860	0.01860	**0.25919**	1.26300	1.26300	**0.34269**	2.50740	2.50740	**0.42797**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.11003**	1.26300	1.26300	**0.21047**	2.50740	2.50740	**0.26859**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.15651**	2.50740	2.50740	**-0.20366**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.22400**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.19806**	1.26300	1.26300	**-0.45872**	2.50740	2.50740	**-0.62277**
	setup	CLK (R)	0.01860	0.01860	**0.25185**	1.26300	1.26300	**0.49920**	2.50740	2.50740	**0.66705**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.21029**	1.26300	1.26300	**-0.28063**	2.50740	2.50740	**-0.34533**
	setup	CLK (R)	0.01860	0.01860	**0.30809**	1.26300	1.26300	**0.38856**	2.50740	2.50740	**0.48405**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.17116**	1.26300	1.26300	**-0.41285**	2.50740	2.50740	**-0.55489**
	setup	CLK (R)	0.01860	0.01860	**0.22496**	1.26300	1.26300	**0.45602**	2.50740	2.50740	**0.60506**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.16138**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.23612**
	setup	CLK (R)	0.01860	0.01860	**0.25919**	1.26300	1.26300	**0.30761**	2.50740	2.50740	**0.38075**

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**0.14031**	2.50740	2.50740	**0.56079**
	removal	CLK (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.14301**	2.50740	2.50740	**0.17414**
	hold	RESET_B (R)	0.01860	0.01860	**-0.12470**	1.26300	1.26300	**-0.30222**	2.50740	2.50740	**-0.38665**
	setup	RESET_B (R)	0.01860	0.01860	**0.15894**	1.26300	1.26300	**0.35349**	2.50740	2.50740	**0.47225**

Constraints(ns) for SET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**SET_B ()**	0.01860	0.00000	**0.13748**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01314**	0.32940	0.06480	**0.01330**	2.50740	0.30000	**0.01463**
	SET_B	0.01860	0.00100	**0.02476**	0.32940	0.06480	**0.06193**	2.50740	0.30000	**0.20183**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01309**	0.32940	0.06480	**0.01318**	2.50740	0.30000	**0.01449**
	RESET_B	0.01860	0.00100	**0.02770**	0.32940	0.06480	**0.06526**	2.50740	0.30000	**0.20268**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01314**	0.32940	0.06480	**0.01330**	2.50740	0.30000	**0.01463**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01309**	0.32940	0.06480	**0.01318**	2.50740	0.30000	**0.01449**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01310**	0.32940	0.06480	**0.01317**	2.50740	0.30000	**0.01440**
	RESET_B	0.01860	0.00100	**0.02771**	0.32940	0.06480	**0.06533**	2.50740	0.30000	**0.20319**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01316**	0.32940	0.06480	**0.01336**	2.50740	0.30000	**0.01459**
	SET_B	0.01860	0.00100	**0.02475**	0.32940	0.06480	**0.06166**	2.50740	0.30000	**0.20143**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01310**	0.32940	0.06480	**0.01317**	2.50740	0.30000	**0.01440**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01316**	0.32940	0.06480	**0.01336**	2.50740	0.30000	**0.01459**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.00972**	0.32940	**0.00924**	2.50740	**0.01225**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.00898**	0.32940	**0.00865**	2.50740	**0.01152**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.00993**	0.32940	**0.00949**	2.50740	**0.01247**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01015**	0.32940	**0.00972**	2.50740	**0.01261**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.00974**	0.32940	**0.00925**	2.50740	**0.01225**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.00568**	0.32940	**0.00526**	2.50740	**0.00824**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00229**	0.32940	**0.00181**	2.50740	**0.00482**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.00972**	0.32940	**0.00924**	2.50740	**0.01225**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.00885**	0.32940	**0.00853**	2.50740	**0.01139**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01607**	0.32940	**0.01564**	2.50740	**0.01846**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.00425**	0.32940	**0.00398**	2.50740	**0.00705**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01729**	0.32940	**0.01698**	2.50740	**0.02009**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.00898**	0.32940	**0.00865**	2.50740	**0.01152**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.00887**	0.32940	**0.00852**	2.50740	**0.01139**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00080**	0.32940	**0.00048**	2.50740	**0.00334**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.00896**	0.32940	**0.00863**	2.50740	**0.01150**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.00894**	0.32940	**0.00873**	2.50740	**0.00984**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.00895**	0.32940	**0.00872**	2.50740	**0.00985**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.00894**	0.32940	**0.00873**	2.50740	**0.00984**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**-0.00013**	0.32940	**-0.00031**	2.50740	**0.00066**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.00895**	0.32940	**0.00872**	2.50740	**0.00985**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00415**	0.32940	**0.00396**	2.50740	**0.00495**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01014**	0.32940	**0.01002**	2.50740	**0.01061**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01157**	0.32940	**0.01137**	2.50740	**0.01197**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01014**	0.32940	**0.01002**	2.50740	**0.01061**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00482**	0.32940	**0.00473**	2.50740	**0.00524**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01157**	0.32940	**0.01137**	2.50740	**0.01197**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**-0.00149**	0.32940	**-0.00156**	2.50740	**-0.00107**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.00886**	0.32940	**0.00814**	2.50740	**0.00960**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01178**	0.32940	**0.01165**	2.50740	**0.01301**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01181**	0.32940	**0.01169**	2.50740	**0.01317**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.00886**	0.32940	**0.00814**	2.50740	**0.00960**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01051**	0.32940	**0.01025**	2.50740	**0.01293**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00511**	0.32940	**0.00487**	2.50740	**0.00745**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01178**	0.32940	**0.01165**	2.50740	**0.01301**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.01016**	0.32940	**0.01474**	2.50740	**0.01645**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00350**	0.32940	**0.01295**	2.50740	**0.02096**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**-0.00291**	0.32940	**-0.00313**	2.50740	**-0.00100**

SDFRBPQx

sg13g2_stdcell_slow_1p08V_125C Cell Library:
Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfrbpq_1	63.50400
sg13g2_sdfrbpq_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CLK	D	RESET_B	SCD	SCE	Q
sg13g2_sdfrbpq_1	0.00275	0.00259	0.00483	0.00271	0.00439	0.30000
sg13g2_sdfrbpq_2	0.00275	0.00259	0.00484	0.00271	0.00439	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbpq_1	2778.65000	3303.87000	4257.28000
sg13g2_sdfrbpq_2	3100.24000	3640.47000	4734.97000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.27200**	0.32940	0.06480	**0.70334**	2.50740	0.30000	**2.03514**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.31198**	0.32940	0.12960	**0.76943**	2.50740	0.60000	**2.10386**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.28300**	0.32940	0.06480	**0.67723**	2.50740	0.30000	**1.85074**
	RESET_B->Q (FF)	0.01860	0.00100	**0.14763**	0.32940	0.06480	**0.58303**	2.50740	0.30000	**1.95602**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.32242**	0.32940	0.12960	**0.74221**	2.50740	0.60000	**1.91704**
	RESET_B->Q (FF)	0.01860	0.00100	**0.18563**	0.32940	0.12960	**0.65379**	2.50740	0.60000	**2.11750**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.27197**	0.32940	0.06480	**0.70334**	2.50740	0.30000	**2.03513**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.27200**	0.32940	0.06480	**0.70334**	2.50740	0.30000	**2.03514**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.31198**	0.32940	0.12960	**0.76943**	2.50740	0.60000	**2.10386**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.31201**	0.32940	0.12960	**0.76943**	2.50740	0.60000	**2.10386**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.28300**	0.32940	0.06480	**0.67723**	2.50740	0.30000	**1.85074**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.28314**	0.32940	0.06480	**0.67723**	2.50740	0.30000	**1.85074**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.32243**	0.32940	0.12960	**0.74234**	2.50740	0.60000	**1.91472**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.32242**	0.32940	0.12960	**0.74221**	2.50740	0.60000	**1.91704**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.12146**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.14710**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.20798**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.20798**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.23963**	1.26300	1.26300	**-0.39936**	2.50740	2.50740	**-0.47225**
	setup	**CLK (R)**	0.01860	0.01860	**0.31788**	1.26300	1.26300	**0.46952**	2.50740	2.50740	**0.55194**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.23963**	1.26300	1.26300	**-0.39936**	2.50740	2.50740	**-0.46930**
	setup	**CLK (R)**	0.01860	0.01860	**0.31788**	1.26300	1.26300	**0.46952**	2.50740	2.50740	**0.55194**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.23229**	1.26300	1.26300	**-0.27523**	2.50740	2.50740	**-0.29811**
	setup	**CLK (R)**	0.01860	0.01860	**0.34233**	1.26300	1.26300	**0.36428**	2.50740	2.50740	**0.38960**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.23229**	1.26300	1.26300	**-0.27523**	2.50740	2.50740	**-0.29811**
	setup	**CLK (R)**	0.01860	0.01860	**0.33988**	1.26300	1.26300	**0.36428**	2.50740	2.50740	**0.38960**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.20051**	1.26300	1.26300	**0.43983**	2.50740	2.50740	**0.81167**
	removal	**CLK (R)**	0.01860	0.01860	**-0.16627**	1.26300	1.26300	**-0.37237**	2.50740	2.50740	**-0.50767**
sg13g2_sdfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.20051**	1.26300	1.26300	**0.45332**	2.50740	2.50740	**1.05075**
	removal	**CLK (R)**	0.01860	0.01860	**-0.16627**	1.26300	1.26300	**-0.37237**	2.50740	2.50740	**-0.50767**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.17593**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.19836**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.23963**	1.26300	1.26300	**-0.39936**	2.50740	2.50740	**-0.47225**
	setup	**CLK (R)**	0.01860	0.01860	**0.31788**	1.26300	1.26300	**0.47221**	2.50740	2.50740	**0.55194**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.23963**	1.26300	1.26300	**-0.39936**	2.50740	2.50740	**-0.47225**
	setup	**CLK (R)**	0.01860	0.01860	**0.31543**	1.26300	1.26300	**0.46952**	2.50740	2.50740	**0.55194**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.22985**	1.26300	1.26300	**-0.26984**	2.50740	2.50740	**-0.29220**
	setup	**CLK (R)**	0.01860	0.01860	**0.34233**	1.26300	1.26300	**0.36428**	2.50740	2.50740	**0.38960**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.22985**	1.26300	1.26300	**-0.26984**	2.50740	2.50740	**-0.29220**
	setup	**CLK (R)**	0.01860	0.01860	**0.33988**	1.26300	1.26300	**0.36428**	2.50740	2.50740	**0.38960**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.24452**	1.26300	1.26300	**-0.41285**	2.50740	2.50740	**-0.49586**
	setup	**CLK (R)**	0.01860	0.01860	**0.32277**	1.26300	1.26300	**0.48301**	2.50740	2.50740	**0.57850**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.24452**	1.26300	1.26300	**-0.41015**	2.50740	2.50740	**-0.49291**
	setup	**CLK (R)**	0.01860	0.01860	**0.32277**	1.26300	1.26300	**0.48301**	2.50740	2.50740	**0.57850**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.23963**	1.26300	1.26300	**-0.26984**	2.50740	2.50740	**-0.28335**
	setup	**CLK (R)**	0.01860	0.01860	**0.35211**	1.26300	1.26300	**0.36428**	2.50740	2.50740	**0.38370**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.23963**	1.26300	1.26300	**-0.26984**	2.50740	2.50740	**-0.28335**
	setup	**CLK (R)**	0.01860	0.01860	**0.34966**	1.26300	1.26300	**0.36428**	2.50740	2.50740	**0.38370**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.01652**	0.32940	0.06480	**0.01630**	2.50740	0.30000	**0.01918**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.01963**	0.32940	0.12960	**0.01964**	2.50740	0.60000	**0.02220**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.01742**	0.32940	0.06480	**0.01763**	2.50740	0.30000	**0.02105**
	RESET_B	0.01860	0.00100	**0.01616**	0.32940	0.06480	**0.01580**	2.50740	0.30000	**0.01732**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.02032**	0.32940	0.12960	**0.02084**	2.50740	0.60000	**0.02435**
	RESET_B	0.01860	0.00100	**0.01897**	0.32940	0.12960	**0.01893**	2.50740	0.60000	**0.02003**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.01652**	0.32940	0.06480	**0.01630**	2.50740	0.30000	**0.01918**
	CLK	!SCE	0.01860	0.00100	**0.00774**	0.32940	0.06480	**0.00792**	2.50740	0.30000	**0.00776**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.01963**	0.32940	0.12960	**0.01964**	2.50740	0.60000	**0.02220**
	CLK	!SCE	0.01860	0.00100	**0.01082**	0.32940	0.12960	**0.01126**	2.50740	0.60000	**0.01077**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.01742**	0.32940	0.06480	**0.01763**	2.50740	0.30000	**0.02105**
	CLK	!SCE	0.01860	0.00100	**0.00865**	0.32940	0.06480	**0.00925**	2.50740	0.30000	**0.00961**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.02032**	0.32940	0.12960	**0.02084**	2.50740	0.60000	**0.02435**
	CLK	!SCE	0.01860	0.00100	**0.01210**	0.32940	0.12960	**0.01305**	2.50740	0.60000	**0.01343**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.00878**	0.32940	**0.00838**	2.50740	**0.01143**
sg13g2_sdfrbpq_2	0.01860	**0.00880**	0.32940	**0.00838**	2.50740	**0.01143**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.00884**	0.32940	**0.00853**	2.50740	**0.01146**
sg13g2_sdfrbpq_2	0.01860	**0.00884**	0.32940	**0.00854**	2.50740	**0.01146**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.00889**	0.32940	**0.00850**	2.50740	**0.01159**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.00878**	0.32940	**0.00838**	2.50740	**0.01143**
	(D * RESET_B * !SCE * Q)	0.01860	**0.00889**	0.32940	**0.00850**	2.50740	**0.01159**
	(!RESET_B * !Q)	0.01860	**0.00264**	0.32940	**0.00225**	2.50740	**0.00530**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.00882**	0.32940	**0.00841**	2.50740	**0.01147**
sg13g2_sdfrbpq_2	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.00890**	0.32940	**0.00849**	2.50740	**0.01156**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.00880**	0.32940	**0.00838**	2.50740	**0.01143**
	(D * RESET_B * !SCE * Q)	0.01860	**0.00890**	0.32940	**0.00849**	2.50740	**0.01156**
	(!RESET_B * !Q)	0.01860	**0.00407**	0.32940	**0.00366**	2.50740	**0.00671**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.00884**	0.32940	**0.00841**	2.50740	**0.01147**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(RESET_B * SCD * SCE * Q)	0.01860	**0.00884**	0.32940	**0.00853**	2.50740	**0.01146**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.01669**	0.32940	**0.01627**	2.50740	**0.01915**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.01553**	0.32940	**0.01531**	2.50740	**0.01849**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.00845**	0.32940	**0.00815**	2.50740	**0.01107**
	(D * RESET_B * !SCE * Q)	0.01860	**0.00884**	0.32940	**0.00853**	2.50740	**0.01146**
	(!RESET_B * !Q)	0.01860	**0.00318**	0.32940	**0.00288**	2.50740	**0.00578**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.00856**	0.32940	**0.00826**	2.50740	**0.01118**
sg13g2_sdfrbpq_2	(RESET_B * SCD * SCE * Q)	0.01860	**0.00883**	0.32940	**0.00854**	2.50740	**0.01146**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.01668**	0.32940	**0.01627**	2.50740	**0.01915**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.01551**	0.32940	**0.01531**	2.50740	**0.01849**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.00845**	0.32940	**0.00815**	2.50740	**0.01107**
	(D * RESET_B * !SCE * Q)	0.01860	**0.00884**	0.32940	**0.00854**	2.50740	**0.01146**
	(!RESET_B * !Q)	0.01860	**0.00458**	0.32940	**0.00429**	2.50740	**0.00719**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.00856**	0.32940	**0.00826**	2.50740	**0.01118**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02478**	0.32940	**0.02438**	2.50740	**0.02690**
sg13g2_sdfrbpq_2	0.01860	**0.02819**	0.32940	**0.02778**	2.50740	**0.03031**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01524**	0.32940	**0.01494**	2.50740	**0.01768**
sg13g2_sdfrbpq_2	0.01860	**0.01768**	0.32940	**0.01737**	2.50740	**0.02012**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02478**	0.32940	**0.02438**	2.50740	**0.02690**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02819**	0.32940	**0.02778**	2.50740	**0.03031**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.01524**	0.32940	**0.01494**	2.50740	**0.01768**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.01768**	0.32940	**0.01737**	2.50740	**0.02012**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02490**	0.32940	**0.02449**	2.50740	**0.02701**
sg13g2_sdfrbpq_2	0.01860	**0.02832**	0.32940	**0.02790**	2.50740	**0.03043**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01402**	0.32940	**0.01370**	2.50740	**0.01644**
sg13g2_sdfrbpq_2	0.01860	**0.01744**	0.32940	**0.01712**	2.50740	**0.01987**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.02490**	0.32940	**0.02449**	2.50740	**0.02701**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.02832**	0.32940	**0.02790**	2.50740	**0.03043**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.01402**	0.32940	**0.01370**	2.50740	**0.01644**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.01744**	0.32940	**0.01712**	2.50740	**0.01987**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02055**	0.32940	**0.02022**	2.50740	**0.02427**
sg13g2_sdfrbpq_2	0.01860	**0.02053**	0.32940	**0.02021**	2.50740	**0.02425**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01070**	0.32940	**0.03010**	2.50740	**0.03420**
sg13g2_sdfrbpq_2	0.01860	**0.01211**	0.32940	**0.03150**	2.50740	**0.03556**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.01806**	0.32940	**0.01775**	2.50740	**0.01982**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02055**	0.32940	**0.02022**	2.50740	**0.02427**
sg13g2_sdfrbpq_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.01947**	0.32940	**0.01917**	2.50740	**0.02122**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02053**	0.32940	**0.02021**	2.50740	**0.02425**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.02084**	0.32940	**0.02064**	2.50740	**0.02254**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.01070**	0.32940	**0.03010**	2.50740	**0.03420**
sg13g2_sdfrbpq_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.02082**	0.32940	**0.02063**	2.50740	**0.02253**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.01211**	0.32940	**0.03150**	2.50740	**0.03556**

SDFRBPx

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfrbp_1	68.94720
sg13g2_sdfrbp_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CLK	D	RESET_B	SCD	SCE	Q	Q_N
sg13g2_sdfrbp_1	0.00275	0.00259	0.00498	0.00271	0.00439	0.30000	0.30000
sg13g2_sdfrbp_2	0.00275	0.00259	0.00520	0.00271	0.00439	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbp_1	3025.75000	3777.30000	4504.36000
sg13g2_sdfrbp_2	3638.24000	4389.98000	5117.04000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.29412**	0.32940	0.06480	**0.69836**	2.50740	0.30000	**2.06472**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.37542**	0.32940	0.12960	**0.77002**	2.50740	0.60000	**2.13606**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.26973**	0.32940	0.06480	**0.63832**	2.50740	0.30000	**1.81459**
	RESET_B->Q (FF)	0.01860	0.00100	**0.37991**	0.32940	0.06480	**0.78187**	2.50740	0.30000	**2.18124**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.32724**	0.32940	0.12960	**0.69535**	2.50740	0.60000	**1.87710**
	RESET_B->Q (FF)	0.01860	0.00100	**0.43919**	0.32940	0.12960	**0.84094**	2.50740	0.60000	**2.24447**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.29412**	0.32940	0.06480	**0.69836**	2.50740	0.30000	**2.06472**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.37542**	0.32940	0.12960	**0.77002**	2.50740	0.60000	**2.13606**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.26973**	0.32940	0.06480	**0.63832**	2.50740	0.30000	**1.81459**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.32724**	0.32940	0.12960	**0.69535**	2.50740	0.60000	**1.87710**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.20697**	0.32940	0.06480	**0.64936**	2.50740	0.30000	**1.97889**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.31809**	0.32940	0.06480	**0.78862**	2.50740	0.30000	**2.33520**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	0.01860	0.00100	**0.21736**	0.32940	0.12960	**0.67756**	2.50740	0.60000	**2.01018**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.33177**	0.32940	0.12960	**0.81980**	2.50740	0.60000	**2.36730**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.21893**	0.32940	0.06480	**0.65664**	2.50740	0.30000	**1.87204**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	0.01860	0.00100	**0.24264**	0.32940	0.12960	**0.70722**	2.50740	0.60000	**1.92514**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.20697**	0.32940	0.06480	**0.64936**	2.50740	0.30000	**1.97889**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.21736**	0.32940	0.12960	**0.67756**	2.50740	0.60000	**2.01018**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.21893**	0.32940	0.06480	**0.65664**	2.50740	0.30000	**1.87204**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.24264**	0.32940	0.12960	**0.70722**	2.50740	0.60000	**1.92514**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.17273**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.21439**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.22740**	1.26300	1.26300	**-0.38856**	2.50740	2.50740	**-0.46044**
	setup	**CLK (R)**	0.01860	0.01860	**0.32032**	1.26300	1.26300	**0.46682**	2.50740	2.50740	**0.53423**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.22496**	1.26300	1.26300	**-0.38317**	2.50740	2.50740	**-0.45454**
	setup	**CLK (R)**	0.01860	0.01860	**0.32032**	1.26300	1.26300	**0.46682**	2.50740	2.50740	**0.53423**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.21762**	1.26300	1.26300	**-0.26984**	2.50740	2.50740	**-0.30106**
	setup	**CLK (R)**	0.01860	0.01860	**0.35211**	1.26300	1.26300	**0.36968**	2.50740	2.50740	**0.39551**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.21518**	1.26300	1.26300	**-0.26714**	2.50740	2.50740	**-0.30106**
	setup	**CLK (R)**	0.01860	0.01860	**0.35211**	1.26300	1.26300	**0.37237**	2.50740	2.50740	**0.39551**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.20295**	1.26300	1.26300	**0.41285**	2.50740	2.50740	**0.55784**
	removal	**CLK (R)**	0.01860	0.01860	**-0.17361**	1.26300	1.26300	**-0.37777**	2.50740	2.50740	**-0.51357**
sg13g2_sdfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.20295**	1.26300	1.26300	**0.41285**	2.50740	2.50740	**0.55784**
	removal	**CLK (R)**	0.01860	0.01860	**-0.17605**	1.26300	1.26300	**-0.38047**	2.50740	2.50740	**-0.51947**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.16953**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.17273**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.22740**	1.26300	1.26300	**-0.39126**	2.50740	2.50740	**-0.46044**
	setup	**CLK (R)**	0.01860	0.01860	**0.32032**	1.26300	1.26300	**0.46682**	2.50740	2.50740	**0.53718**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.22496**	1.26300	1.26300	**-0.38317**	2.50740	2.50740	**-0.45454**
	setup	**CLK (R)**	0.01860	0.01860	**0.32032**	1.26300	1.26300	**0.46952**	2.50740	2.50740	**0.53718**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.21518**	1.26300	1.26300	**-0.26444**	2.50740	2.50740	**-0.29515**
	setup	**CLK (R)**	0.01860	0.01860	**0.35211**	1.26300	1.26300	**0.36968**	2.50740	2.50740	**0.39551**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.21518**	1.26300	1.26300	**-0.26444**	2.50740	2.50740	**-0.29515**
	setup	**CLK (R)**	0.01860	0.01860	**0.35211**	1.26300	1.26300	**0.37237**	2.50740	2.50740	**0.39846**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.23229**	1.26300	1.26300	**-0.40206**	2.50740	2.50740	**-0.48405**
	setup	**CLK (R)**	0.01860	0.01860	**0.32521**	1.26300	1.26300	**0.47761**	2.50740	2.50740	**0.56079**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.22985**	1.26300	1.26300	**-0.39666**	2.50740	2.50740	**-0.47815**
	setup	**CLK (R)**	0.01860	0.01860	**0.32521**	1.26300	1.26300	**0.48031**	2.50740	2.50740	**0.56079**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.22496**	1.26300	1.26300	**-0.26444**	2.50740	2.50740	**-0.28630**
	setup	**CLK (R)**	0.01860	0.01860	**0.36189**	1.26300	1.26300	**0.36968**	2.50740	2.50740	**0.38960**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.22496**	1.26300	1.26300	**-0.26174**	2.50740	2.50740	**-0.28630**
	setup	**CLK (R)**	0.01860	0.01860	**0.36189**	1.26300	1.26300	**0.36968**	2.50740	2.50740	**0.39255**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.02334**	0.32940	0.06480	**0.06075**	2.50740	0.30000	**0.20059**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.02920**	0.32940	0.12960	**0.10514**	2.50740	0.60000	**0.38157**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.02424**	0.32940	0.06480	**0.06175**	2.50740	0.30000	**0.20217**
	RESET_B	0.01860	0.00100	**0.03176**	0.32940	0.06480	**0.06065**	2.50740	0.30000	**0.16933**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.02976**	0.32940	0.12960	**0.10589**	2.50740	0.60000	**0.38332**
	RESET_B	0.01860	0.00100	**0.03003**	0.32940	0.12960	**0.08950**	2.50740	0.60000	**0.30528**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	**0.02334**	0.32940	0.06480	**0.06075**	2.50740	0.30000	**0.20059**
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	**0.02920**	0.32940	0.12960	**0.10514**	2.50740	0.60000	**0.38157**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	SCE	0.01860	0.00100	**0.02424**	0.32940	0.06480	**0.06175**	2.50740	0.30000	**0.20217**
sg13g2_sdfrbp_2	CLK	SCE	0.01860	0.00100	**0.02976**	0.32940	0.12960	**0.10589**	2.50740	0.60000	**0.38332**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK	0.01860	0.00100	**0.02423**	0.32940	0.06480	**0.06196**	2.50740	0.30000	**0.20201**
	RESET_B	0.01860	0.00100	**0.02873**	0.32940	0.06480	**0.05801**	2.50740	0.30000	**0.16853**
sg13g2_sdfrbp_2	CLK	0.01860	0.00100	**0.03069**	0.32940	0.12960	**0.10694**	2.50740	0.60000	**0.38403**
	RESET_B	0.01860	0.00100	**0.03006**	0.32940	0.12960	**0.08945**	2.50740	0.60000	**0.30707**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.02333**	0.32940	0.06480	**0.06068**	2.50740	0.30000	**0.20059**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.02920**	0.32940	0.12960	**0.10512**	2.50740	0.60000	**0.38178**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.02423**	0.32940	0.06480	**0.06196**	2.50740	0.30000	**0.20201**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.03069**	0.32940	0.12960	**0.10694**	2.50740	0.60000	**0.38403**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.02333**	0.32940	0.06480	**0.06068**	2.50740	0.30000	**0.20059**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.02920**	0.32940	0.12960	**0.10512**	2.50740	0.60000	**0.38178**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.00881**	0.32940	**0.00838**	2.50740	**0.01147**
sg13g2_sdfrbp_2	0.01860	**0.00882**	0.32940	**0.00839**	2.50740	**0.01148**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.00863**	0.32940	**0.00829**	2.50740	**0.01120**
sg13g2_sdfrbp_2	0.01860	**0.00863**	0.32940	**0.00829**	2.50740	**0.01120**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.00892**	0.32940	**0.00850**	2.50740	**0.01156**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.00881**	0.32940	**0.00838**	2.50740	**0.01147**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.00893**	0.32940	**0.00850**	2.50740	**0.01156**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00040**	0.32940	**-0.00000**	2.50740	**0.00305**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.00885**	0.32940	**0.00841**	2.50740	**0.01151**
sg13g2_sdfrbp_2	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.00894**	0.32940	**0.00851**	2.50740	**0.01156**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.00882**	0.32940	**0.00839**	2.50740	**0.01148**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.00892**	0.32940	**0.00851**	2.50740	**0.01156**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00041**	0.32940	**-0.00000**	2.50740	**0.00305**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.00885**	0.32940	**0.00843**	2.50740	**0.01151**

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

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

sg13g2_sdfrbp_1	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.00862**	0.32940	**0.00829**	2.50740	**0.01120**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.01671**	0.32940	**0.01628**	2.50740	**0.01915**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.01538**	0.32940	**0.01517**	2.50740	**0.01835**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.00847**	0.32940	**0.00815**	2.50740	**0.01106**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.00863**	0.32940	**0.00829**	2.50740	**0.01120**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00094**	0.32940	**0.00061**	2.50740	**0.00351**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.00859**	0.32940	**0.00826**	2.50740	**0.01118**
sg13g2_sdfrbp_2	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.00863**	0.32940	**0.00829**	2.50740	**0.01120**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.01671**	0.32940	**0.01628**	2.50740	**0.01915**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.01541**	0.32940	**0.01517**	2.50740	**0.01835**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.00848**	0.32940	**0.00815**	2.50740	**0.01106**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.00863**	0.32940	**0.00829**	2.50740	**0.01120**
	(!RESET_B * !Q * Q_N)	0.01860	**0.00094**	0.32940	**0.00062**	2.50740	**0.00351**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.00860**	0.32940	**0.00826**	2.50740	**0.01118**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01695**	0.32940	**0.01655**	2.50740	**0.01907**
sg13g2_sdfrbp_2	0.01860	**0.01818**	0.32940	**0.01778**	2.50740	**0.02030**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02281**	0.32940	**0.02250**	2.50740	**0.02525**
sg13g2_sdfrbp_2	0.01860	**0.02283**	0.32940	**0.02251**	2.50740	**0.02525**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.01695**	0.32940	**0.01655**	2.50740	**0.01907**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.01818**	0.32940	**0.01778**	2.50740	**0.02030**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02281**	0.32940	**0.02250**	2.50740	**0.02525**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02283**	0.32940	**0.02251**	2.50740	**0.02525**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01709**	0.32940	**0.01667**	2.50740	**0.01919**
sg13g2_sdfrbp_2	0.01860	**0.01831**	0.32940	**0.01790**	2.50740	**0.02042**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.00742**	0.32940	**0.00712**	2.50740	**0.00986**
sg13g2_sdfrbp_2	0.01860	**0.01499**	0.32940	**0.01469**	2.50740	**0.01743**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.01709**	0.32940	**0.01667**	2.50740	**0.01919**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.01831**	0.32940	**0.01790**	2.50740	**0.02042**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.00742**	0.32940	**0.00712**	2.50740	**0.00986**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.01499**	0.32940	**0.01469**	2.50740	**0.01743**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02055**	0.32940	**0.02022**	2.50740	**0.02427**
sg13g2_sdfrbp_2	0.01860	**0.02053**	0.32940	**0.02021**	2.50740	**0.02425**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.00843**	0.32940	**0.02784**	2.50740	**0.03193**
sg13g2_sdfrbp_2	0.01860	**0.00843**	0.32940	**0.02782**	2.50740	**0.03189**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.01580**	0.32940	**0.01549**	2.50740	**0.01755**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02055**	0.32940	**0.02022**	2.50740	**0.02427**
sg13g2_sdfrbp_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.01580**	0.32940	**0.01549**	2.50740	**0.01755**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.02053**	0.32940	**0.02021**	2.50740	**0.02425**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.02084**	0.32940	**0.02064**	2.50740	**0.02254**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.00843**	0.32940	**0.02784**	2.50740	**0.03193**
sg13g2_sdfrbp_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.02082**	0.32940	**0.02063**	2.50740	**0.02252**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.00843**	0.32940	**0.02782**	2.50740	**0.03189**

SIGHOLD

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.01149	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	140.38500	571.88300	1003.38000

Passive Power Information

Passive power(pJ) for SH rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.00396**	0.32940	**0.00641**	2.50740	**0.02556**

Passive power(pJ) for SH falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.00334**	0.32940	**0.00430**	2.50740	**0.02289**

SLGCP

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

Truth Table

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

Footprint

Cell Name	Area
sg13g2_slgcp_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	GATE	SCE	GCLK
sg13g2_slgcp_1	0.00461	0.00182	0.00218	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	1673.79000	2008.50000	2370.65000

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.11397**	0.32940	0.06480	**0.51648**	2.50740	0.30000	**1.85003**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.09092**	0.32940	0.06480	**0.46704**	2.50740	0.30000	**1.64058**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.36179**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

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

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06573**	1.26300	1.26300	**-0.27401**	2.50740	2.50740	**-0.38333**
	setup	**CLK (R)**	0.01860	0.01860	**0.10512**	1.26300	1.26300	**0.36957**	2.50740	2.50740	**0.51278**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.11081**	1.26300	1.26300	**-0.21670**	2.50740	2.50740	**-0.29195**
	setup	**CLK (R)**	0.01860	0.01860	**0.19112**	1.26300	1.26300	**0.29052**	2.50740	2.50740	**0.37678**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.07250**	1.26300	1.26300	**-0.30715**	2.50740	2.50740	**-0.43308**
	setup	**CLK (R)**	0.01860	0.01860	**0.11354**	1.26300	1.26300	**0.40380**	2.50740	2.50740	**0.55951**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.11913**	1.26300	1.26300	**-0.20514**	2.50740	2.50740	**-0.27619**
	setup	**CLK (R)**	0.01860	0.01860	**0.20073**	1.26300	1.26300	**0.27205**	2.50740	2.50740	**0.35027**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.00640**	0.32940	0.06480	**0.00645**	2.50740	0.30000	**0.00764**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.00557**	0.32940	0.06480	**0.00573**	2.50740	0.30000	**0.00771**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.00638**	0.32940	**0.00612**	2.50740	**0.00874**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.00501**	0.32940	**0.00473**	2.50740	**0.00732**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01477**	0.32940	**0.01518**	2.50740	**0.01704**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01013**	0.32940	**0.02233**	2.50740	**0.02472**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.01477**	0.32940	**0.01518**	2.50740	**0.01704**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.01013**	0.32940	**0.02233**	2.50740	**0.02472**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.00511**	0.32940	**0.00493**	2.50740	**0.00672**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.00997**	0.32940	**0.02182**	2.50740	**0.02344**

TIEHI

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	14.33880	14.33880	14.33880

TIELO

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	12.60110	12.60110	12.60110

XNOR2

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00520	0.00479	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	279.16200	857.22300	1222.57000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-R)	0.01860	0.00100	**0.08067**	0.32940	0.06480	**0.79791**	2.50740	0.30000	**3.80957**
	B->Y (-R)	0.01860	0.00100	**0.07071**	0.32940	0.06480	**0.80460**	2.50740	0.30000	**3.98641**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-F)	0.01860	0.00100	**0.07322**	0.32940	0.06480	**0.67006**	2.50740	0.30000	**3.32794**
	B->Y (-F)	0.01860	0.00100	**0.06327**	0.32940	0.06480	**0.65785**	2.50740	0.30000	**3.30859**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (RR)	B	0.01860	0.00100	**0.11272**	0.32940	0.06480	**0.51659**	2.50740	0.30000	**1.84637**
	A->Y (FR)	!B	0.01860	0.00100	**0.08067**	0.32940	0.06480	**0.79791**	2.50740	0.30000	**3.80957**
	B->Y (RR)	A	0.01860	0.00100	**0.10558**	0.32940	0.06480	**0.50586**	2.50740	0.30000	**1.81284**
	B->Y (FR)	!A	0.01860	0.00100	**0.07071**	0.32940	0.06480	**0.80460**	2.50740	0.30000	**3.98641**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (FF)	B	0.01860	0.00100	**0.10665**	0.32940	0.06480	**0.67345**	2.50740	0.30000	**2.55662**
	A->Y (RF)	!B	0.01860	0.00100	**0.07322**	0.32940	0.06480	**0.67006**	2.50740	0.30000	**3.32794**
	B->Y (FF)	A	0.01860	0.00100	**0.10886**	0.32940	0.06480	**0.65807**	2.50740	0.30000	**2.51036**
	B->Y (RF)	!A	0.01860	0.00100	**0.06327**	0.32940	0.06480	**0.65785**	2.50740	0.30000	**3.30859**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00619**	0.32940	0.06480	**0.00623**	2.50740	0.30000	**0.00725**
	B	0.01860	0.00100	**0.00635**	0.32940	0.06480	**0.00612**	2.50740	0.30000	**0.00769**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00572**	0.32940	0.06480	**0.00579**	2.50740	0.30000	**0.00741**
	B	0.01860	0.00100	**0.00612**	0.32940	0.06480	**0.00509**	2.50740	0.30000	**0.00644**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.00619**	0.32940	0.06480	**0.00623**	2.50740	0.30000	**0.00725**
	A	!B	0.01860	0.00100	**0.00406**	0.32940	0.06480	**0.00386**	2.50740	0.30000	**0.00399**
	B	A	0.01860	0.00100	**0.00635**	0.32940	0.06480	**0.00612**	2.50740	0.30000	**0.00769**
	B	!A	0.01860	0.00100	**0.00277**	0.32940	0.06480	**0.00270**	2.50740	0.30000	**0.00275**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.00572**	0.32940	0.06480	**0.00579**	2.50740	0.30000	**0.00741**
	A	!B	0.01860	0.00100	**0.00405**	0.32940	0.06480	**0.00384**	2.50740	0.30000	**0.00361**
	B	A	0.01860	0.00100	**0.00612**	0.32940	0.06480	**0.00509**	2.50740	0.30000	**0.00644**
	B	!A	0.01860	0.00100	**0.00338**	0.32940	0.06480	**0.00338**	2.50740	0.30000	**0.00310**

XOR2

sg13g2_stdcell_slow_1p08V_125C Cell Library: Process
sg13g2_stdcell_slow_1p08V_125C, Voltage 1.08, Temp 125.00

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	0.00531	0.00484	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	674.43600	861.63500	1243.37000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-R)	0.01860	0.00100	**0.08712**	0.32940	0.06480	**0.80697**	2.50740	0.30000	**3.82398**
	B->X (-R)	0.01860	0.00100	**0.07578**	0.32940	0.06480	**0.79434**	2.50740	0.30000	**3.80682**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-F)	0.01860	0.00100	**0.06676**	0.32940	0.06480	**0.66284**	2.50740	0.30000	**3.31316**
	B->X (-F)	0.01860	0.00100	**0.05896**	0.32940	0.06480	**0.66866**	2.50740	0.30000	**3.43158**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (RR)	!B	0.01860	0.00100	**0.10920**	0.32940	0.06480	**0.82393**	2.50740	0.30000	**3.28769**
	A->X (FR)	B	0.01860	0.00100	**0.08712**	0.32940	0.06480	**0.80697**	2.50740	0.30000	**3.82398**
	B->X (RR)	!A	0.01860	0.00100	**0.11377**	0.32940	0.06480	**0.80788**	2.50740	0.30000	**3.22945**
	B->X (FR)	A	0.01860	0.00100	**0.07578**	0.32940	0.06480	**0.79434**	2.50740	0.30000	**3.80682**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (FF)	!B	0.01860	0.00100	**0.13354**	0.32940	0.06480	**0.49977**	2.50740	0.30000	**1.63756**
	A->X (RF)	B	0.01860	0.00100	**0.06676**	0.32940	0.06480	**0.66284**	2.50740	0.30000	**3.31316**
	B->X (FF)	!A	0.01860	0.00100	**0.12465**	0.32940	0.06480	**0.49271**	2.50740	0.30000	**1.62730**
	B->X (RF)	A	0.01860	0.00100	**0.05896**	0.32940	0.06480	**0.66866**	2.50740	0.30000	**3.43158**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.00565**	0.32940	0.06480	**0.00561**	2.50740	0.30000	**0.00756**
	B	0.01860	0.00100	**0.00606**	0.32940	0.06480	**0.00511**	2.50740	0.30000	**0.00696**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.00665**	0.32940	0.06480	**0.00674**	2.50740	0.30000	**0.00794**
	B	0.01860	0.00100	**0.00622**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.00778**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.00418**	0.32940	0.06480	**0.00409**	2.50740	0.30000	**0.00427**
	A	!B	0.01860	0.00100	**0.00565**	0.32940	0.06480	**0.00561**	2.50740	0.30000	**0.00756**
	B	A	0.01860	0.00100	**0.00340**	0.32940	0.06480	**0.00340**	2.50740	0.30000	**0.00344**
	B	!A	0.01860	0.00100	**0.00606**	0.32940	0.06480	**0.00511**	2.50740	0.30000	**0.00696**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.00415**	0.32940	0.06480	**0.00378**	2.50740	0.30000	**0.00349**
	A	!B	0.01860	0.00100	**0.00665**	0.32940	0.06480	**0.00674**	2.50740	0.30000	**0.00794**
	B	A	0.01860	0.00100	**0.00341**	0.32940	0.06480	**0.00319**	2.50740	0.30000	**0.00308**
	B	!A	0.01860	0.00100	**0.00622**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.00778**