sg13g2_stdcell_fast_1p32V_m40C Library

Cell Groups
AND2
AND3
AND4
AO21
BTLx
BUx
DECAPx
DFFRRx
DLHQ
DLHRQ
DLHR
DLLRQ
DLLR
DLY1
DLY2
DLY4
EINVINx
FILLx
INx
ITL
KEEPSTATE
MUX2
MUX4

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

AND2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and2_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_1	0.00257	0.00251	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	218.17100	284.77700	341.27600

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.04495**	0.32940	0.06480	**0.23304**	2.50740	0.30000	**0.84128**
	B->X (RR)	0.01860	0.00100	**0.04834**	0.32940	0.06480	**0.23072**	2.50740	0.30000	**0.82398**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.03806**	0.32940	0.06480	**0.20378**	2.50740	0.30000	**0.68550**
	B->X (FF)	0.01860	0.00100	**0.04146**	0.32940	0.06480	**0.21505**	2.50740	0.30000	**0.71858**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A	0.01860	0.00100	**0.00773**	0.32940	0.06480	**0.00926**	2.50740	0.30000	**0.03002**
	B	0.01860	0.00100	**0.00954**	0.32940	0.06480	**0.01037**	2.50740	0.30000	**0.02994**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and2_1	A	0.01860	0.00100	**0.00674**	0.32940	0.06480	**0.00866**	2.50740	0.30000	**0.02729**
	B	0.01860	0.00100	**0.00694**	0.32940	0.06480	**0.00877**	2.50740	0.30000	**0.02790**

AND3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and3_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_and3_1	0.00258	0.00247	0.00249	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	220.74600	329.11100	472.26800

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.06000**	0.32940	0.06480	**0.26176**	2.50740	0.30000	**0.91212**
	B->X (RR)	0.01860	0.00100	**0.06684**	0.32940	0.06480	**0.26288**	2.50740	0.30000	**0.90632**
	C->X (RR)	0.01860	0.00100	**0.06970**	0.32940	0.06480	**0.25665**	2.50740	0.30000	**0.86839**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.04048**	0.32940	0.06480	**0.21002**	2.50740	0.30000	**0.67933**
	B->X (FF)	0.01860	0.00100	**0.04407**	0.32940	0.06480	**0.22083**	2.50740	0.30000	**0.71048**
	C->X (FF)	0.01860	0.00100	**0.04619**	0.32940	0.06480	**0.22962**	2.50740	0.30000	**0.74367**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A	0.01860	0.00100	**0.00887**	0.32940	0.06480	**0.01021**	2.50740	0.30000	**0.02794**
	B	0.01860	0.00100	**0.01062**	0.32940	0.06480	**0.01141**	2.50740	0.30000	**0.02864**
	C	0.01860	0.00100	**0.01233**	0.32940	0.06480	**0.01288**	2.50740	0.30000	**0.03035**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and3_1	A	0.01860	0.00100	**0.00685**	0.32940	0.06480	**0.00852**	2.50740	0.30000	**0.02584**
	B	0.01860	0.00100	**0.00714**	0.32940	0.06480	**0.00856**	2.50740	0.30000	**0.02623**
	C	0.01860	0.00100	**0.00728**	0.32940	0.06480	**0.00876**	2.50740	0.30000	**0.02721**

AND4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_1	0.00219	0.00212	0.00251	0.00251	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	223.51400	362.26400	603.43600

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.07607**	0.32940	0.06480	**0.29026**	2.50740	0.30000	**0.98254**
	B->X (RR)	0.01860	0.00100	**0.08595**	0.32940	0.06480	**0.29286**	2.50740	0.30000	**0.97884**
	C->X (RR)	0.01860	0.00100	**0.09146**	0.32940	0.06480	**0.28979**	2.50740	0.30000	**0.94787**
	D->X (RR)	0.01860	0.00100	**0.09414**	0.32940	0.06480	**0.28501**	2.50740	0.30000	**0.90775**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.04248**	0.32940	0.06480	**0.21306**	2.50740	0.30000	**0.67155**
	B->X (FF)	0.01860	0.00100	**0.04607**	0.32940	0.06480	**0.22401**	2.50740	0.30000	**0.69954**
	C->X (FF)	0.01860	0.00100	**0.04849**	0.32940	0.06480	**0.23278**	2.50740	0.30000	**0.73022**
	D->X (FF)	0.01860	0.00100	**0.05010**	0.32940	0.06480	**0.23999**	2.50740	0.30000	**0.76198**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A	0.01860	0.00100	**0.01030**	0.32940	0.06480	**0.01138**	2.50740	0.30000	**0.02728**
	B	0.01860	0.00100	**0.01233**	0.32940	0.06480	**0.01268**	2.50740	0.30000	**0.02784**
	C	0.01860	0.00100	**0.01314**	0.32940	0.06480	**0.01334**	2.50740	0.30000	**0.02874**
	D	0.01860	0.00100	**0.01291**	0.32940	0.06480	**0.01295**	2.50740	0.30000	**0.02900**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_and4_1	A	0.01860	0.00100	**0.00596**	0.32940	0.06480	**0.00735**	2.50740	0.30000	**0.02441**
	B	0.01860	0.00100	**0.00629**	0.32940	0.06480	**0.00755**	2.50740	0.30000	**0.02425**
	C	0.01860	0.00100	**0.00750**	0.32940	0.06480	**0.00883**	2.50740	0.30000	**0.02558**
	D	0.01860	0.00100	**0.00732**	0.32940	0.06480	**0.00871**	2.50740	0.30000	**0.02711**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00056**	0.32940	**-0.00056**	2.50740	**-0.00055**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00142**	0.32940	**0.00144**	2.50740	**0.00144**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(B * C * !D) + (B * !C)**	0.01860	**-0.00056**	0.32940	**-0.00056**	2.50740	**-0.00055**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(B * C * !D) + (B * !C)	0.01860	**0.00142**	0.32940	**0.00144**	2.50740	**0.00144**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**-0.00069**	0.32940	**-0.00070**	2.50740	**-0.00070**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00119**	0.32940	**0.00121**	2.50740	**0.00121**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * C * !D) + (A * !C)	0.01860	**-0.00069**	0.32940	**-0.00070**	2.50740	**-0.00070**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	(A * C * !D) + (A * !C)	0.01860	**0.00119**	0.32940	**0.00121**	2.50740	**0.00121**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00018**	0.32940	**0.00021**	2.50740	**0.00020**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00010**	0.32940	**0.00011**	2.50740	**0.00011**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00018**	0.32940	**0.00021**	2.50740	**0.00020**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * D) + (!A * D)**	0.01860	**0.00010**	0.32940	**0.00011**	2.50740	**0.00011**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00207**	0.32940	**0.00210**	2.50740	**0.00208**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	0.01860	**0.00045**	0.32940	**0.00038**	2.50740	**0.00035**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00207**	0.32940	**0.00210**	2.50740	**0.00208**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_and4_1	**(A * !B * C) + (!A * C)**	0.01860	**0.00045**	0.32940	**0.00038**	2.50740	**0.00035**

AO21

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21o_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_1	0.00278	0.00288	0.00246	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	298.74600	357.45900	398.14000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.05514**	0.32940	0.06480	**0.25800**	2.50740	0.30000	**0.89793**
	A2->X (RR)	0.01860	0.00100	**0.05809**	0.32940	0.06480	**0.25178**	2.50740	0.30000	**0.87473**
	B1->X (RR)	0.01860	0.00100	**0.03594**	0.32940	0.06480	**0.22382**	2.50740	0.30000	**0.79946**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.05983**	0.32940	0.06480	**0.22578**	2.50740	0.30000	**0.71495**
	A2->X (FF)	0.01860	0.00100	**0.06576**	0.32940	0.06480	**0.23772**	2.50740	0.30000	**0.74522**
	B1->X (FF)	0.01860	0.00100	**0.05880**	0.32940	0.06480	**0.24071**	2.50740	0.30000	**0.78346**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.03594**	0.32940	0.06480	**0.22382**	2.50740	0.30000	**0.79946**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03398**	0.32940	0.06480	**0.21343**	2.50740	0.30000	**0.76880**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.05880**	0.32940	0.06480	**0.24071**	2.50740	0.30000	**0.78346**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.05190**	0.32940	0.06480	**0.22583**	2.50740	0.30000	**0.75529**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00852**	0.32940	0.06480	**0.00976**	2.50740	0.30000	**0.02829**
	A2	0.01860	0.00100	**0.01033**	0.32940	0.06480	**0.01110**	2.50740	0.30000	**0.02906**
	B1	0.01860	0.00100	**0.00630**	0.32940	0.06480	**0.00820**	2.50740	0.30000	**0.02929**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00983**	0.32940	0.06480	**0.01058**	2.50740	0.30000	**0.02952**
	A2	0.01860	0.00100	**0.00986**	0.32940	0.06480	**0.01083**	2.50740	0.30000	**0.02850**
	B1	0.01860	0.00100	**0.00685**	0.32940	0.06480	**0.00895**	2.50740	0.30000	**0.02951**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00811**	0.32940	0.06480	**0.00993**	2.50740	0.30000	**0.03203**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00630**	0.32940	0.06480	**0.00820**	2.50740	0.30000	**0.02929**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_a21o_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00703**	0.32940	0.06480	**0.00893**	2.50740	0.30000	**0.02896**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00685**	0.32940	0.06480	**0.00895**	2.50740	0.30000	**0.02951**

Passive power(pJ) for A1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**-0.00006**	0.32940	**-0.00001**	2.50740	**-0.00001**

Passive power(pJ) for A1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00034**	0.32940	**0.00033**	2.50740	**0.00033**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**0.00011**	0.32940	**-0.00006**	2.50740	**-0.00012**
	(!A2 * B1)	0.01860	**-0.00006**	0.32940	**-0.00001**	2.50740	**-0.00001**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	**(A2 * B1)**	0.01860	**0.00066**	0.32940	**0.00065**	2.50740	**0.00065**
	(!A2 * B1)	0.01860	**0.00034**	0.32940	**0.00033**	2.50740	**0.00033**

Passive power(pJ) for A2 rising :

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

Passive power(pJ) for A2 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00026**	0.32940	**0.00027**	2.50740	**0.00027**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00019**	0.32940	**-0.00000**	2.50740	**-0.00006**
	(!A1 * B1)	0.01860	**0.00005**	0.32940	**0.00005**	2.50740	**0.00005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * B1)	0.01860	**0.00059**	0.32940	**0.00060**	2.50740	**0.00059**
	(!A1 * B1)	0.01860	**0.00026**	0.32940	**0.00027**	2.50740	**0.00027**

Passive power(pJ) for B1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00098**	0.32940	**0.00101**	2.50740	**0.00101**

Passive power(pJ) for B1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	0.01860	**0.00071**	0.32940	**0.00072**	2.50740	**0.00073**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00098**	0.32940	**0.00101**	2.50740	**0.00101**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_a21o_1	(A1 * A2)	0.01860	**0.00071**	0.32940	**0.00072**	2.50740	**0.00073**

BTLx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_ebufn_8	45.36000
sg13g2_ebufn_4	25.40160
sg13g2_ebufn_2	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_8	0.00608	0.01711	2.40000
sg13g2_ebufn_4	0.00314	0.01036	1.20000
sg13g2_ebufn_2	0.00270	0.00631	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_8	374.47900	1634.29000	3019.60000
sg13g2_ebufn_4	266.13800	876.36000	1549.31000
sg13g2_ebufn_2	218.52700	523.63300	835.47100

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.01992	**0.04623**	0.32940	0.53732	**0.38906**	2.50740	2.41892	**1.47597**
	TE_B->Z (RR)	0.01860	0.01992	**0.04851**	0.32940	0.53732	**0.13353**	2.50740	2.41892	**0.30857**
	TE_B->Z (FR)	0.01860	0.01992	**0.02559**	0.32940	0.53732	**0.36230**	2.50740	2.41892	**1.85731**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01058	**0.04704**	0.32940	0.26878	**0.38783**	2.50740	1.20958	**1.46879**
	TE_B->Z (RR)	0.01860	0.01058	**0.03821**	0.32940	0.26878	**0.10109**	2.50740	1.20958	**0.22356**
	TE_B->Z (FR)	0.01860	0.01058	**0.02518**	0.32940	0.26878	**0.35946**	2.50740	1.20958	**1.84830**
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00587	**0.04100**	0.32940	0.13447	**0.35945**	2.50740	0.60487	**1.40771**
	TE_B->Z (RR)	0.01860	0.00587	**0.03322**	0.32940	0.13447	**0.08307**	2.50740	0.60487	**0.18898**
	TE_B->Z (FR)	0.01860	0.00587	**0.02528**	0.32940	0.13447	**0.35869**	2.50740	0.60487	**1.85119**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02986	**0.05846**	0.32940	0.54726	**0.34387**	2.50740	2.42886	**1.20358**
	TE_B->Z (RF)	0.01860	0.02986	**0.02319**	0.32940	0.54726	**-0.21100**	2.50740	2.42886	**-1.89759**
	TE_B->Z (FF)	0.01860	0.02986	**0.05950**	0.32940	0.54726	**0.35362**	2.50740	2.42886	**1.23092**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01564	**0.05979**	0.32940	0.27384	**0.34538**	2.50740	1.21464	**1.20314**
	TE_B->Z (RF)	0.01860	0.01564	**0.01951**	0.32940	0.27384	**-0.21071**	2.50740	1.21464	**-1.89699**
	TE_B->Z (FF)	0.01860	0.01564	**0.04557**	0.32940	0.27384	**0.31124**	2.50740	1.21464	**1.12845**
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00846	**0.04590**	0.32940	0.13706	**0.30661**	2.50740	0.60746	**1.11434**
	TE_B->Z (RF)	0.01860	0.00846	**0.01302**	0.32940	0.13706	**-0.22212**	2.50740	0.60746	**-1.90853**
	TE_B->Z (FF)	0.01860	0.00846	**0.03897**	0.32940	0.13706	**0.28391**	2.50740	0.60746	**1.05870**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.01992	**0.04400**	0.32940	0.53732	**0.05307**	2.50740	2.41892	**0.05750**
	TE_B	0.01860	0.01992	**0.00579**	0.32940	0.53732	**0.00345**	2.50740	2.41892	**0.00000**
sg13g2_ebufn_4	A	0.01860	0.01058	**0.02216**	0.32940	0.26878	**0.02615**	2.50740	1.20958	**0.02315**
	TE_B	0.01860	0.01058	**0.00287**	0.32940	0.26878	**0.00170**	2.50740	1.20958	**-0.00057**
sg13g2_ebufn_2	A	0.01860	0.00587	**0.01149**	0.32940	0.13447	**0.01286**	2.50740	0.60487	**0.01192**
	TE_B	0.01860	0.00587	**0.00140**	0.32940	0.13447	**0.00088**	2.50740	0.60487	**0.00019**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_ebufn_8	A	0.01860	0.02986	**0.04394**	0.32940	0.54726	**0.04432**	2.50740	2.42886	**0.03652**
	TE_B	0.01860	0.02986	**0.00289**	0.32940	0.54726	**0.00061**	2.50740	2.42886	**0.00000**
sg13g2_ebufn_4	A	0.01860	0.01564	**0.02217**	0.32940	0.27384	**0.02253**	2.50740	1.21464	**0.01877**
	TE_B	0.01860	0.01564	**0.00146**	0.32940	0.27384	**0.00045**	2.50740	1.21464	**0.00291**
sg13g2_ebufn_2	A	0.01860	0.00846	**0.01087**	0.32940	0.13706	**0.01095**	2.50740	0.60746	**0.01083**
	TE_B	0.01860	0.00846	**0.00072**	0.32940	0.13706	**0.00043**	2.50740	0.60746	**0.00124**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.01039**	0.32940	**0.01467**	2.50740	**0.06822**
sg13g2_ebufn_4	0.01860	**0.00569**	0.32940	**0.00776**	2.50740	**0.03441**
sg13g2_ebufn_2	0.01860	**0.00347**	0.32940	**0.00559**	2.50740	**0.02938**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.00908**	0.32940	**0.01398**	2.50740	**0.06685**
sg13g2_ebufn_4	0.01860	**0.00474**	0.32940	**0.00711**	2.50740	**0.03348**
sg13g2_ebufn_2	0.01860	**0.00317**	0.32940	**0.00550**	2.50740	**0.02888**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**-0.00470**	0.32940	**-0.00461**	2.50740	**0.01905**
sg13g2_ebufn_4	0.01860	**-0.00102**	0.32940	**-0.00003**	2.50740	**0.02576**
sg13g2_ebufn_2	0.01860	**0.00012**	0.32940	**0.00161**	2.50740	**0.02492**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_ebufn_8	0.01860	**0.06602**	0.32940	**0.06886**	2.50740	**0.09352**
sg13g2_ebufn_4	0.01860	**0.03403**	0.32940	**0.03675**	2.50740	**0.06269**
sg13g2_ebufn_2	0.01860	**0.01781**	0.32940	**0.02030**	2.50740	**0.04343**

BUx

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_16	0.01820	4.80000
sg13g2_buf_8	0.00909	2.40000
sg13g2_buf_4	0.00387	1.20000
sg13g2_buf_2	0.00268	0.60000
sg13g2_buf_1	0.00231	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_16	2211.69000	2605.76000	2999.83000
sg13g2_buf_8	1105.85000	1302.88000	1499.91000
sg13g2_buf_4	499.65700	620.30900	740.96100
sg13g2_buf_2	292.03200	338.82800	385.62500
sg13g2_buf_1	190.69300	203.41000	216.12600

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.03941**	0.32940	1.03680	**0.24523**	2.50740	4.80000	**0.87189**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.03875**	0.32940	0.51840	**0.24391**	2.50740	2.40000	**0.86975**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.04824**	0.32940	0.25920	**0.27316**	2.50740	1.20000	**0.98149**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.03822**	0.32940	0.12960	**0.23860**	2.50740	0.60000	**0.85805**
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.03400**	0.32940	0.06480	**0.21782**	2.50740	0.30000	**0.80835**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.04370**	0.32940	1.03680	**0.23206**	2.50740	4.80000	**0.75254**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.04295**	0.32940	0.51840	**0.23110**	2.50740	2.40000	**0.75290**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.04234**	0.32940	0.25920	**0.22598**	2.50740	1.20000	**0.69141**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.04120**	0.32940	0.12960	**0.22041**	2.50740	0.60000	**0.72033**
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.03601**	0.32940	0.06480	**0.19822**	2.50740	0.30000	**0.67367**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.09471**	0.32940	1.03680	**0.10814**	2.50740	4.80000	**0.26437**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04588**	0.32940	0.51840	**0.05240**	2.50740	2.40000	**0.13606**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02246**	0.32940	0.25920	**0.02510**	2.50740	1.20000	**0.05407**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01183**	0.32940	0.12960	**0.01393**	2.50740	0.60000	**0.03615**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00673**	0.32940	0.06480	**0.00867**	2.50740	0.30000	**0.02822**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_buf_16	**A**	0.01860	0.00100	**0.08937**	0.32940	1.03680	**0.10723**	2.50740	4.80000	**0.27798**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04409**	0.32940	0.51840	**0.05208**	2.50740	2.40000	**0.13373**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02210**	0.32940	0.25920	**0.02560**	2.50740	1.20000	**0.05669**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01146**	0.32940	0.12960	**0.01385**	2.50740	0.60000	**0.03701**
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00679**	0.32940	0.06480	**0.00887**	2.50740	0.30000	**0.02767**

DECAPx

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

Footprint

Cell Name	Area
sg13g2_decap_4	7.25760
sg13g2_decap_8	12.70080

Pin Capacitance Information
Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_decap_4	1468.62000	1468.62000	1468.62000
sg13g2_decap_8	2937.23000	2937.23000	2937.23000

DFFRRx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_2	54.43200
sg13g2_dfrbp_1	47.17440

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	CLK	Q	Q_N
sg13g2_dfrbp_2	0.00146	0.00530	0.00295	0.60000	0.60000
sg13g2_dfrbp_1	0.00152	0.00582	0.00276	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_2	1222.38000	1384.02000	1519.45000
sg13g2_dfrbp_1	942.05200	1098.92000	1247.92000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.15658**	0.32940	0.12960	**0.34415**	2.50740	0.60000	**0.94749**
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.12197**	0.32940	0.06480	**0.30966**	2.50740	0.30000	**0.88300**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.13888**	0.32940	0.12960	**0.31116**	2.50740	0.60000	**0.81353**
	RESET_B->Q (FF)	0.01860	0.00100	**0.18273**	0.32940	0.12960	**0.38775**	2.50740	0.60000	**0.99897**
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.11821**	0.32940	0.06480	**0.28797**	2.50740	0.30000	**0.76889**
	RESET_B->Q (FF)	0.01860	0.00100	**0.15735**	0.32940	0.06480	**0.35897**	2.50740	0.30000	**0.95750**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.09168**	0.32940	0.12960	**0.30608**	2.50740	0.60000	**0.87324**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.13666**	0.32940	0.12960	**0.38161**	2.50740	0.60000	**1.05841**
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.08947**	0.32940	0.06480	**0.29388**	2.50740	0.30000	**0.84150**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.12911**	0.32940	0.06480	**0.36356**	2.50740	0.30000	**1.02964**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.10205**	0.32940	0.12960	**0.31860**	2.50740	0.60000	**0.85725**
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.09167**	0.32940	0.06480	**0.29117**	2.50740	0.30000	**0.80671**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.17414**
	setup	**CLK (R)**	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.21841**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03179**	1.26300	1.26300	**-0.14571**	2.50740	2.50740	**-0.19480**
	setup	**CLK (R)**	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.18619**	2.50740	2.50740	**0.23612**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01467**	1.26300	1.26300	**-0.09984**	2.50740	2.50740	**-0.15938**
	setup	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.23612**
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01467**	1.26300	1.26300	**-0.09984**	2.50740	2.50740	**-0.15938**
	setup	**CLK (R)**	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.18079**	2.50740	2.50740	**0.25088**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.08558**	1.26300	1.26300	**0.21047**	2.50740	2.50740	**0.30991**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.30106**
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.22127**	2.50740	2.50740	**0.33648**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.20238**	2.50740	2.50740	**-0.31582**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dfrbp_2	-	3.3435
sg13g2_dfrbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_dfrbp_2	3.3435	3.3435
sg13g2_dfrbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03319**	0.32940	0.12960	**0.14543**	2.50740	0.60000	**0.55725**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02249**	0.32940	0.06480	**0.07875**	2.50740	0.30000	**0.28702**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03315**	0.32940	0.12960	**0.14637**	2.50740	0.60000	**0.56353**
	RESET_B	0.01860	0.00100	**0.03563**	0.32940	0.12960	**0.14937**	2.50740	0.60000	**0.57697**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02182**	0.32940	0.06480	**0.07851**	2.50740	0.30000	**0.28593**
	RESET_B	0.01860	0.00100	**0.02400**	0.32940	0.06480	**0.08124**	2.50740	0.30000	**0.30025**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03319**	0.32940	0.12960	**0.14693**	2.50740	0.60000	**0.56179**
	RESET_B	0.01860	0.00100	**0.03567**	0.32940	0.12960	**0.15011**	2.50740	0.60000	**0.57927**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02182**	0.32940	0.06480	**0.07887**	2.50740	0.30000	**0.28859**
	RESET_B	0.01860	0.00100	**0.02399**	0.32940	0.06480	**0.08158**	2.50740	0.30000	**0.30207**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.03322**	0.32940	0.12960	**0.14487**	2.50740	0.60000	**0.56006**
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.02248**	0.32940	0.06480	**0.07849**	2.50740	0.30000	**0.28685**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00182**	0.32940	**0.00280**	2.50740	**0.01367**
sg13g2_dfrbp_1	0.01860	**0.00190**	0.32940	**0.00286**	2.50740	**0.01368**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00162**	0.32940	**0.00267**	2.50740	**0.01359**
sg13g2_dfrbp_1	0.01860	**0.00174**	0.32940	**0.00277**	2.50740	**0.01365**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00182**	0.32940	**0.00280**	2.50740	**0.01367**
	(!CLK * RESET_B)	0.01860	**0.01368**	0.32940	**0.01465**	2.50740	**0.02725**
	(!CLK * !RESET_B)	0.01860	**-0.00028**	0.32940	**-0.00029**	2.50740	**-0.00028**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00190**	0.32940	**0.00286**	2.50740	**0.01368**
	(!CLK * RESET_B)	0.01860	**0.01200**	0.32940	**0.01300**	2.50740	**0.02542**
	(!CLK * !RESET_B)	0.01860	**-0.00019**	0.32940	**-0.00020**	2.50740	**-0.00019**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00162**	0.32940	**0.00267**	2.50740	**0.01359**
	(!CLK * RESET_B)	0.01860	**0.01090**	0.32940	**0.01187**	2.50740	**0.02469**
	(!CLK * !RESET_B)	0.01860	**0.00058**	0.32940	**0.00060**	2.50740	**0.00060**
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00174**	0.32940	**0.00277**	2.50740	**0.01365**
	(!CLK * RESET_B)	0.01860	**0.01002**	0.32940	**0.01101**	2.50740	**0.02372**
	(!CLK * !RESET_B)	0.01860	**0.00052**	0.32940	**0.00053**	2.50740	**0.00054**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.00471**	0.32940	**0.00511**	2.50740	**0.01530**
sg13g2_dfrbp_1	0.01860	**0.00517**	0.32940	**0.00551**	2.50740	**0.01570**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01103**	0.32940	**0.01148**	2.50740	**0.02738**
sg13g2_dfrbp_1	0.01860	**0.00972**	0.32940	**0.01015**	2.50740	**0.02618**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00471**	0.32940	**0.00511**	2.50740	**0.01530**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00156**	0.32940	**0.00152**	2.50740	**0.00151**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01675**	0.32940	**0.01724**	2.50740	**0.03271**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00163**	0.32940	**0.00157**	2.50740	**0.00157**
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00517**	0.32940	**0.00551**	2.50740	**0.01570**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00202**	0.32940	**0.00198**	2.50740	**0.00197**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01548**	0.32940	**0.01602**	2.50740	**0.03149**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00210**	0.32940	**0.00205**	2.50740	**0.00205**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.04630**	0.32940	**0.04815**	2.50740	**0.07829**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00064**	0.32940	**-0.00083**	2.50740	**-0.00090**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01103**	0.32940	**0.01148**	2.50740	**0.02738**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00081**	0.32940	**-0.00092**	2.50740	**-0.00097**
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.03303**	0.32940	**0.03475**	2.50740	**0.06447**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00109**	0.32940	**-0.00128**	2.50740	**-0.00135**
	(!CLK * D * !Q * Q_N)	0.01860	**0.00972**	0.32940	**0.01015**	2.50740	**0.02618**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00125**	0.32940	**-0.00138**	2.50740	**-0.00143**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.01291**	0.32940	**0.01500**	2.50740	**0.04334**
sg13g2_dfrbp_1	0.01860	**0.01264**	0.32940	**0.01458**	2.50740	**0.04096**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	0.01860	**0.02406**	0.32940	**0.02630**	2.50740	**0.05522**
sg13g2_dfrbp_1	0.01860	**0.02160**	0.32940	**0.02371**	2.50740	**0.05115**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.01291**	0.32940	**0.01500**	2.50740	**0.04334**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01350**	0.32940	**0.01558**	2.50740	**0.04384**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01265**	0.32940	**0.01473**	2.50740	**0.04302**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01354**	0.32940	**0.01559**	2.50740	**0.04389**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.01297**	0.32940	**0.01493**	2.50740	**0.04134**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01262**	0.32940	**0.01456**	2.50740	**0.04096**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01233**	0.32940	**0.01429**	2.50740	**0.04068**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01264**	0.32940	**0.01458**	2.50740	**0.04096**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.02406**	0.32940	**0.02630**	2.50740	**0.05522**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02407**	0.32940	**0.02630**	2.50740	**0.05523**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01256**	0.32940	**0.01477**	2.50740	**0.04271**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00705**	0.32940	**0.05986**	2.50740	**0.08771**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01253**	0.32940	**0.01477**	2.50740	**0.04273**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01256**	0.32940	**0.01477**	2.50740	**0.04271**
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.02160**	0.32940	**0.02371**	2.50740	**0.05115**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02160**	0.32940	**0.02376**	2.50740	**0.05114**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01189**	0.32940	**0.01403**	2.50740	**0.04029**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.00627**	0.32940	**0.04744**	2.50740	**0.07357**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01187**	0.32940	**0.01402**	2.50740	**0.04029**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01189**	0.32940	**0.01403**	2.50740	**0.04029**

DLHQ

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhq_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	D	GATE	Q
sg13g2_dlhq_1	0.00229	0.00233	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	679.02500	746.95700	843.24400

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.11387**	0.32940	0.06480	**0.29393**	2.50740	0.30000	**0.85183**
	GATE->Q (RR)	0.01860	0.00100	**0.09694**	0.32940	0.06480	**0.27891**	2.50740	0.30000	**0.80385**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.10329**	0.32940	0.06480	**0.26201**	2.50740	0.30000	**0.70385**
	GATE->Q (RF)	0.01860	0.00100	**0.10472**	0.32940	0.06480	**0.26826**	2.50740	0.30000	**0.71012**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.15651**	2.50740	2.50740	**-0.19480**
	setup	GATE (F)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.20777**	2.50740	2.50740	**0.27744**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**0.01349**	2.50740	2.50740	**0.04722**
	setup	GATE (F)	0.01860	0.01860	**0.03423**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**-0.03837**

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01745**	0.32940	0.06480	**0.01776**	2.50740	0.30000	**0.01913**
	GATE	0.01860	0.00100	**0.01460**	0.32940	0.06480	**0.01490**	2.50740	0.30000	**0.01763**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01826**	0.32940	0.06480	**0.01879**	2.50740	0.30000	**0.01971**
	GATE	0.01860	0.00100	**0.01586**	0.32940	0.06480	**0.01665**	2.50740	0.30000	**0.01744**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00444**	0.32940	**0.00607**	2.50740	**0.02564**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00431**	0.32940	**0.00601**	2.50740	**0.02536**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00436**	0.32940	**0.00591**	2.50740	**0.02551**
	(!GATE * !Q)	0.01860	**0.00444**	0.32940	**0.00607**	2.50740	**0.02564**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00428**	0.32940	**0.00607**	2.50740	**0.02543**
	(!GATE * !Q)	0.01860	**0.00431**	0.32940	**0.00601**	2.50740	**0.02536**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00960**	0.32940	**0.01150**	2.50740	**0.03588**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	0.01860	**0.00618**	0.32940	**0.01982**	2.50740	**0.04427**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.00960**	0.32940	**0.01150**	2.50740	**0.03588**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.00618**	0.32940	**0.01982**	2.50740	**0.04427**

DLHRQ

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhrq_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	RESET_B	GATE	Q
sg13g2_dlhrq_1	0.00213	0.00293	0.00224	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	775.44600	856.01800	913.96200

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.12002**	0.32940	0.06480	**0.30347**	2.50740	0.30000	**0.85701**
	GATE->Q (RR)	0.01860	0.00100	**0.10723**	0.32940	0.06480	**0.29276**	2.50740	0.30000	**0.81408**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.10756**	0.32940	0.06480	**0.26631**	2.50740	0.30000	**0.70932**
	GATE->Q (RF)	0.01860	0.00100	**0.10896**	0.32940	0.06480	**0.27418**	2.50740	0.30000	**0.71908**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04297**	0.32940	0.06480	**0.22074**	2.50740	0.30000	**0.72973**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.05379**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.17709**
	setup	GATE (F)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.18889**	2.50740	2.50740	**0.25383**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**0.01349**	2.50740	2.50740	**0.04722**
	setup	GATE (F)	0.01860	0.01860	**0.03912**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**-0.03837**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.00489**	1.26300	1.26300	**-0.06206**	2.50740	2.50740	**-0.09150**
	removal	GATE (F)	0.01860	0.01860	**0.01467**	1.26300	1.26300	**0.08365**	2.50740	2.50740	**0.11511**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhrq_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhrq_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00176**	0.32940	0.06480	**0.00153**	2.50740	0.30000	**0.00345**
	GATE	0.01860	0.00100	**0.01470**	0.32940	0.06480	**0.01492**	2.50740	0.30000	**0.01850**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00532**	0.32940	0.06480	**-0.00153**	2.50740	0.30000	**-0.00345**
	GATE	0.01860	0.00100	**0.01432**	0.32940	0.06480	**0.01522**	2.50740	0.30000	**0.01647**
	RESET_B	0.01860	0.00100	**0.00805**	0.32940	0.06480	**0.01027**	2.50740	0.30000	**0.03377**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.02016**	0.32940	**0.02226**	2.50740	**0.04210**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.01540**	0.32940	**0.03068**	2.50740	**0.05068**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00429**	0.32940	**0.00587**	2.50740	**0.02551**
	!RESET_B	0.01860	**0.02016**	0.32940	**0.02226**	2.50740	**0.04210**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00406**	0.32940	**0.00587**	2.50740	**0.02522**
	!RESET_B	0.01860	**0.01540**	0.32940	**0.03068**	2.50740	**0.05068**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00009**	0.32940	**0.00004**	2.50740	**0.00004**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00049**	0.32940	**0.00038**	2.50740	**0.00034**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00009**	0.32940	**0.00004**	2.50740	**0.00004**
	(!D * !GATE * !Q)	0.01860	**0.00009**	0.32940	**0.00004**	2.50740	**0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	(D * !GATE * !Q)	0.01860	**0.00049**	0.32940	**0.00038**	2.50740	**0.00034**
	(!D * !GATE * !Q)	0.01860	**0.00049**	0.32940	**0.00038**	2.50740	**0.00034**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00999**	0.32940	**0.01187**	2.50740	**0.03624**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	0.01860	**0.00638**	0.32940	**0.01971**	2.50740	**0.04414**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01317**	0.32940	**0.01497**	2.50740	**0.04119**
	(!D * !RESET_B * !Q)	0.01860	**0.00999**	0.32940	**0.01187**	2.50740	**0.03624**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01405**	0.32940	**0.01640**	2.50740	**0.04255**
	(!D * RESET_B * !Q)	0.01860	**0.00638**	0.32940	**0.01971**	2.50740	**0.04414**
	(!D * !RESET_B * !Q)	0.01860	**0.00639**	0.32940	**0.01973**	2.50740	**0.04415**

DLHR

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE	Q	Q_N
sg13g2_dlhr_1	0.00215	0.00309	0.00232	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	973.15400	1064.46000	1112.60000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.13020**	0.32940	0.06480	**0.31874**	2.50740	0.30000	**0.87182**
	GATE->Q (RR)	0.01860	0.00100	**0.11801**	0.32940	0.06480	**0.30952**	2.50740	0.30000	**0.83300**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.11205**	0.32940	0.06480	**0.27267**	2.50740	0.30000	**0.71100**
	GATE->Q (RF)	0.01860	0.00100	**0.11342**	0.32940	0.06480	**0.28069**	2.50740	0.30000	**0.72018**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04659**	0.32940	0.06480	**0.23498**	2.50740	0.30000	**0.75128**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.13628**	0.32940	0.06480	**0.30607**	2.50740	0.30000	**0.81157**
	GATE->Q_N (RR)	0.01860	0.00100	**0.13777**	0.32940	0.06480	**0.31398**	2.50740	0.30000	**0.82108**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07069**	0.32940	0.06480	**0.26189**	2.50740	0.30000	**0.79510**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.15890**	0.32940	0.06480	**0.31674**	2.50740	0.30000	**0.80239**
	GATE->Q_N (RF)	0.01860	0.00100	**0.14653**	0.32940	0.06480	**0.30763**	2.50740	0.30000	**0.76322**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.05624**	1.26300	1.26300	**-0.14571**	2.50740	2.50740	**-0.18004**
	setup	GATE (F)	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.19158**	2.50740	2.50740	**0.25383**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**0.01349**	2.50740	2.50740	**0.04722**
	setup	GATE (F)	0.01860	0.01860	**0.04157**	1.26300	1.26300	**-0.00270**	2.50740	2.50740	**-0.03837**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**0.00245**	1.26300	1.26300	**-0.02698**	2.50740	2.50740	**-0.03837**
	removal	GATE (F)	0.01860	0.01860	**0.01223**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.06198**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dlhr_1	-	3.3435

Min Pulse Width (ns) for GATE:

Cell Name	High	Low
sg13g2_dlhr_1	3.3435	-

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00581**	0.32940	0.06480	**0.00599**	2.50740	0.30000	**0.00747**
	GATE	0.01860	0.00100	**0.01216**	0.32940	0.06480	**0.01254**	2.50740	0.30000	**0.01498**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00743**	0.32940	0.06480	**0.00125**	2.50740	0.30000	**0.00197**
	GATE	0.01860	0.00100	**0.01199**	0.32940	0.06480	**0.01252**	2.50740	0.30000	**0.01395**
	RESET_B	0.01860	0.00100	**0.00864**	0.32940	0.06480	**0.00999**	2.50740	0.30000	**0.02276**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00745**	0.32940	0.06480	**0.00123**	2.50740	0.30000	**0.00252**
	GATE	0.01860	0.00100	**0.01200**	0.32940	0.06480	**0.01266**	2.50740	0.30000	**0.01487**
	RESET_B	0.01860	0.00100	**0.00866**	0.32940	0.06480	**0.01002**	2.50740	0.30000	**0.02407**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00581**	0.32940	0.06480	**0.00587**	2.50740	0.30000	**0.00696**
	GATE	0.01860	0.00100	**0.01216**	0.32940	0.06480	**0.01238**	2.50740	0.30000	**0.01453**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01978**	0.32940	**0.02191**	2.50740	**0.04179**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.01527**	0.32940	**0.03040**	2.50740	**0.05041**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00426**	0.32940	**0.00587**	2.50740	**0.02559**
	!RESET_B	0.01860	**0.01978**	0.32940	**0.02191**	2.50740	**0.04179**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00383**	0.32940	**0.00567**	2.50740	**0.02507**
	!RESET_B	0.01860	**0.01527**	0.32940	**0.03040**	2.50740	**0.05041**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**-0.00006**	0.32940	**-0.00012**	2.50740	**-0.00012**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00064**	0.32940	**0.00054**	2.50740	**0.00050**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**-0.00006**	0.32940	**-0.00012**	2.50740	**-0.00012**
	(!D * !GATE * !Q)	0.01860	**-0.00006**	0.32940	**-0.00012**	2.50740	**-0.00012**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00064**	0.32940	**0.00054**	2.50740	**0.00050**
	(!D * !GATE * !Q)	0.01860	**0.00064**	0.32940	**0.00054**	2.50740	**0.00050**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00963**	0.32940	**0.01153**	2.50740	**0.03593**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	0.01860	**0.00657**	0.32940	**0.01946**	2.50740	**0.04396**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01284**	0.32940	**0.01468**	2.50740	**0.04090**
	(!D * !RESET_B * !Q)	0.01860	**0.00963**	0.32940	**0.01153**	2.50740	**0.03593**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01444**	0.32940	**0.01679**	2.50740	**0.04296**
	(!D * RESET_B * !Q)	0.01860	**0.00657**	0.32940	**0.01946**	2.50740	**0.04396**
	(!D * !RESET_B * !Q)	0.01860	**0.00659**	0.32940	**0.01948**	2.50740	**0.04397**

DLLRQ

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	RESET_B	GATE_N	Q
sg13g2_dllrq_1	0.00212	0.00297	0.00224	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	775.37100	857.91900	913.96400

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.11984**	0.32940	0.06480	**0.30285**	2.50740	0.30000	**0.85659**
	GATE_N->Q (FR)	0.01860	0.00100	**0.13090**	0.32940	0.06480	**0.31985**	2.50740	0.30000	**0.87671**
	RESET_B->Q (RR)	0.01860	0.00100	**0.05736**	0.32940	0.06480	**0.24226**	2.50740	0.30000	**0.85024**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.10709**	0.32940	0.06480	**0.26415**	2.50740	0.30000	**0.70203**
	GATE_N->Q (FF)	0.01860	0.00100	**0.10013**	0.32940	0.06480	**0.27554**	2.50740	0.30000	**0.78719**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04334**	0.32940	0.06480	**0.22002**	2.50740	0.30000	**0.72825**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.06206**	2.50740	2.50740	**-0.09150**
	setup	GATE_N (R)	0.01860	0.01860	**0.05624**	1.26300	1.26300	**0.07286**	2.50740	2.50740	**0.10035**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.05379**	1.26300	1.26300	**-0.15111**	2.50740	2.50740	**-0.19185**
	setup	GATE_N (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.20508**	2.50740	2.50740	**0.28040**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**-0.04587**	2.50740	2.50740	**-0.03837**
	removal	GATE_N (R)	0.01860	0.01860	**0.02934**	1.26300	1.26300	**0.05936**	2.50740	2.50740	**0.05018**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllrq_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00787**	0.32940	0.06480	**0.00854**	2.50740	0.30000	**0.00987**
	GATE_N	0.01860	0.00100	**0.01914**	0.32940	0.06480	**0.00842**	2.50740	0.30000	**0.00791**
	RESET_B	0.01860	0.00100	**0.01203**	0.32940	0.06480	**0.01299**	2.50740	0.30000	**0.03550**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllrq_1	D	0.01860	0.00100	**0.01545**	0.32940	0.06480	**0.00001**	2.50740	0.30000	**0.00019**
	GATE_N	0.01860	0.00100	**0.01726**	0.32940	0.06480	**0.00675**	2.50740	0.30000	**0.00936**
	RESET_B	0.01860	0.00100	**0.00823**	0.32940	0.06480	**0.01045**	2.50740	0.30000	**0.03378**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.01403**	0.32940	**0.01526**	2.50740	**0.03489**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00534**	0.32940	**0.02304**	2.50740	**0.04309**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00427**	0.32940	**0.00587**	2.50740	**0.02556**
	!RESET_B	0.01860	**0.01403**	0.32940	**0.01526**	2.50740	**0.03489**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00393**	0.32940	**0.00575**	2.50740	**0.02514**
	!RESET_B	0.01860	**0.00534**	0.32940	**0.02304**	2.50740	**0.04309**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00009**	0.32940	**0.00004**	2.50740	**0.00004**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00048**	0.32940	**0.00038**	2.50740	**0.00034**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00009**	0.32940	**0.00004**	2.50740	**0.00004**
	(!D * GATE_N * !Q)	0.01860	**0.00009**	0.32940	**0.00004**	2.50740	**0.00004**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	(D * GATE_N * !Q)	0.01860	**0.00049**	0.32940	**0.00038**	2.50740	**0.00034**
	(!D * GATE_N * !Q)	0.01860	**0.00048**	0.32940	**0.00038**	2.50740	**0.00034**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00898**	0.32940	**0.01087**	2.50740	**0.03524**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	0.01860	**0.00633**	0.32940	**0.01963**	2.50740	**0.04416**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01570**	0.32940	**0.01741**	2.50740	**0.04146**
	(!D * !RESET_B * !Q)	0.01860	**0.00898**	0.32940	**0.01087**	2.50740	**0.03524**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllrq_1	**(D * !RESET_B * !Q)**	0.01860	**0.01403**	0.32940	**0.01621**	2.50740	**0.04049**
	(!D * RESET_B * !Q)	0.01860	**0.00633**	0.32940	**0.01963**	2.50740	**0.04416**
	(!D * !RESET_B * !Q)	0.01860	**0.00634**	0.32940	**0.01964**	2.50740	**0.04418**

DLLR

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	RESET_B	GATE_N	Q	Q_N
sg13g2_dllr_1	0.00216	0.00310	0.00232	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	973.77000	1084.04000	1124.01000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.13151**	0.32940	0.06480	**0.31996**	2.50740	0.30000	**0.87294**
	GATE_N->Q (FR)	0.01860	0.00100	**0.14299**	0.32940	0.06480	**0.33866**	2.50740	0.30000	**0.89716**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.11316**	0.32940	0.06480	**0.27367**	2.50740	0.30000	**0.71252**
	GATE_N->Q (FF)	0.01860	0.00100	**0.10683**	0.32940	0.06480	**0.28651**	2.50740	0.30000	**0.80132**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04644**	0.32940	0.06480	**0.23878**	2.50740	0.30000	**0.72500**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.13731**	0.32940	0.06480	**0.30684**	2.50740	0.30000	**0.81147**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.13106**	0.32940	0.06480	**0.31981**	2.50740	0.30000	**0.90008**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07106**	0.32940	0.06480	**0.26347**	2.50740	0.30000	**0.80205**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.16002**	0.32940	0.06480	**0.31813**	2.50740	0.30000	**0.80386**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.17134**	0.32940	0.06480	**0.33662**	2.50740	0.30000	**0.82823**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.05135**	1.26300	1.26300	**-0.06746**	2.50740	2.50740	**-0.09445**
	setup	GATE_N (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.07555**	2.50740	2.50740	**0.10626**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.05624**	1.26300	1.26300	**-0.15381**	2.50740	2.50740	**-0.19775**
	setup	GATE_N (R)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.20777**	2.50740	2.50740	**0.28630**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.00734**	1.26300	1.26300	**-0.01349**	2.50740	2.50740	**0.01476**
	removal	GATE_N (R)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**0.02968**	2.50740	2.50740	**-0.00295**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Min Pulse Width (ns) for GATE_N:

Cell Name	High	Low
sg13g2_dllr_1	-	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01172**	0.32940	0.06480	**0.06825**	2.50740	0.30000	**0.27551**
	GATE_N	0.01860	0.00100	**0.02646**	0.32940	0.06480	**0.08300**	2.50740	0.30000	**0.28870**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01598**	0.32940	0.06480	**0.05593**	2.50740	0.30000	**0.26194**
	GATE_N	0.01860	0.00100	**0.02417**	0.32940	0.06480	**0.08040**	2.50740	0.30000	**0.28906**
	RESET_B	0.01860	0.00100	**0.02787**	0.32940	0.06480	**0.08519**	2.50740	0.30000	**0.31294**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01603**	0.32940	0.06480	**0.05603**	2.50740	0.30000	**0.26377**
	GATE_N	0.01860	0.00100	**0.02419**	0.32940	0.06480	**0.08084**	2.50740	0.30000	**0.28852**
	RESET_B	0.01860	0.00100	**0.02788**	0.32940	0.06480	**0.08541**	2.50740	0.30000	**0.31284**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dllr_1	D	0.01860	0.00100	**0.01172**	0.32940	0.06480	**0.06810**	2.50740	0.30000	**0.27584**
	GATE_N	0.01860	0.00100	**0.02646**	0.32940	0.06480	**0.08270**	2.50740	0.30000	**0.28977**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.02101**	0.32940	**0.02254**	2.50740	**0.04242**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.01508**	0.32940	**0.03332**	2.50740	**0.05333**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00427**	0.32940	**0.00590**	2.50740	**0.02559**
	!RESET_B	0.01860	**0.02101**	0.32940	**0.02254**	2.50740	**0.04242**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(GATE_N * RESET_B * Q)	0.01860	**0.00383**	0.32940	**0.00565**	2.50740	**0.02507**
	!RESET_B	0.01860	**0.01508**	0.32940	**0.03332**	2.50740	**0.05333**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**-0.00006**	0.32940	**-0.00012**	2.50740	**-0.00012**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00064**	0.32940	**0.00054**	2.50740	**0.00050**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**-0.00006**	0.32940	**-0.00012**	2.50740	**-0.00011**
	(!D * GATE_N * !Q)	0.01860	**-0.00006**	0.32940	**-0.00012**	2.50740	**-0.00012**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00064**	0.32940	**0.00054**	2.50740	**0.00050**
	(!D * GATE_N * !Q)	0.01860	**0.00064**	0.32940	**0.00054**	2.50740	**0.00050**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00416**	0.32940	**0.01971**	2.50740	**0.04405**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	0.01860	**0.00995**	0.32940	**0.01216**	2.50740	**0.03662**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01595**	0.32940	**0.01767**	2.50740	**0.04162**
	(!D * RESET_B * !Q)	0.01860	**0.00416**	0.32940	**0.01971**	2.50740	**0.04405**
	(!D * !RESET_B * !Q)	0.01860	**0.00417**	0.32940	**0.01972**	2.50740	**0.04405**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01444**	0.32940	**0.01664**	2.50740	**0.04080**
	(!D * !RESET_B * !Q)	0.01860	**0.00995**	0.32940	**0.01216**	2.50740	**0.03662**

DLY1

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00141	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	308.75600	324.85500	340.95400

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.07457**	0.32940	0.06480	**0.25031**	2.50740	0.30000	**0.73309**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.08593**	0.32940	0.06480	**0.26639**	2.50740	0.30000	**0.81458**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01499**	0.32940	0.06480	**0.01619**	2.50740	0.30000	**0.02973**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01419**	0.32940	0.06480	**0.01568**	2.50740	0.30000	**0.02955**

DLY2

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00142	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	402.36000	418.48100	434.60100

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.11082**	0.32940	0.06480	**0.29887**	2.50740	0.30000	**0.81768**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.12384**	0.32940	0.06480	**0.32303**	2.50740	0.30000	**0.89978**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01796**	0.32940	0.06480	**0.01901**	2.50740	0.30000	**0.03256**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01730**	0.32940	0.06480	**0.01837**	2.50740	0.30000	**0.03168**

DLY4

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd3_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd3_1	0.00138	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	939.23500	955.34200	971.44900

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.23419**	0.32940	0.06480	**0.44780**	2.50740	0.30000	**1.04574**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.23754**	0.32940	0.06480	**0.47198**	2.50740	0.30000	**1.12009**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02644**	0.32940	0.06480	**0.02670**	2.50740	0.30000	**0.03822**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02605**	0.32940	0.06480	**0.02644**	2.50740	0.30000	**0.03892**

EINVINx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_4	23.58720
sg13g2_einvn_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_4	0.00778	0.00945	1.20000
sg13g2_einvn_2	0.00389	0.00495	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_4	1155.03000	1312.65000	1470.26000
sg13g2_einvn_2	581.54000	660.35200	739.16400

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (FR)	0.01860	0.01061	**0.01871**	0.32940	0.26881	**0.37719**	2.50740	1.20961	**2.07730**
	TE_B->Z (RR)	0.01860	0.01061	**0.03687**	0.32940	0.26881	**0.10014**	2.50740	1.20961	**0.22280**
	TE_B->Z (FR)	0.01860	0.01061	**0.02301**	0.32940	0.26881	**0.35524**	2.50740	1.20961	**1.83831**
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00588	**0.01969**	0.32940	0.13448	**0.37672**	2.50740	0.60488	**2.07343**
	TE_B->Z (RR)	0.01860	0.00588	**0.03563**	0.32940	0.13448	**0.09444**	2.50740	0.60488	**0.21076**
	TE_B->Z (FR)	0.01860	0.00588	**0.02384**	0.32940	0.13448	**0.35525**	2.50740	0.60488	**1.83810**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01559	**0.01761**	0.32940	0.27379	**0.33618**	2.50740	1.21459	**1.88946**
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00846	**0.01863**	0.32940	0.13706	**0.33600**	2.50740	0.60746	**1.88843**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01061	**0.01258**	0.32940	0.26881	**0.01502**	2.50740	1.20961	**0.03906**
	TE_B	0.01860	0.01061	**0.02497**	0.32940	0.26881	**0.01738**	2.50740	1.20961	**0.01448**
sg13g2_einvn_2	A	0.01860	0.00588	**0.00638**	0.32940	0.13448	**0.00743**	2.50740	0.60488	**0.01871**
	TE_B	0.01860	0.00588	**0.01231**	0.32940	0.13448	**0.00858**	2.50740	0.60488	**0.00705**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_4	A	0.01860	0.01559	**0.01103**	0.32940	0.27379	**0.01395**	2.50740	1.21459	**0.03380**
sg13g2_einvn_2	A	0.01860	0.00846	**0.00563**	0.32940	0.13706	**0.00695**	2.50740	0.60746	**0.01692**

Passive power(pJ) for A rising :

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

Passive power(pJ) for A falling :

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

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**-0.00165**	0.32940	**-0.00071**	2.50740	**0.02515**
sg13g2_einvn_2	0.01860	**-0.00065**	0.32940	**-0.00003**	2.50740	**0.01431**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_4	0.01860	**0.01184**	0.32940	**0.02092**	2.50740	**0.04785**
sg13g2_einvn_2	0.01860	**0.00613**	0.32940	**0.01074**	2.50740	**0.02553**

FILLx

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

Footprint

Cell Name	Area
sg13g2_fill_1	1.81440
sg13g2_fill_2	3.62880
sg13g2_fill_4	7.25760
sg13g2_fill_8	14.51520

Pin Capacitance Information

Leakage Information

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

INx

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

Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

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

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_16	0.04857	4.80000
sg13g2_inv_8	0.02369	2.40000
sg13g2_inv_4	0.01186	1.20000
sg13g2_inv_2	0.00592	0.60000
sg13g2_inv_1	0.00297	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_16	1264.60000	1895.10000	2525.60000
sg13g2_inv_8	632.30100	947.55000	1262.80000
sg13g2_inv_4	316.15000	473.77500	631.39900
sg13g2_inv_2	158.07600	236.88800	315.70000
sg13g2_inv_1	79.03790	118.44300	157.84900

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.01234**	0.32940	1.03680	**0.26872**	2.50740	4.80000	**1.52169**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01220**	0.32940	0.51840	**0.26824**	2.50740	2.40000	**1.52254**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01248**	0.32940	0.25920	**0.26792**	2.50740	1.20000	**1.52161**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01340**	0.32940	0.12960	**0.26764**	2.50740	0.60000	**1.51836**
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.01541**	0.32940	0.06480	**0.26796**	2.50740	0.30000	**1.51861**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.01231**	0.32940	1.03680	**0.25541**	2.50740	4.80000	**1.47401**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01222**	0.32940	0.51840	**0.25554**	2.50740	2.40000	**1.47616**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01245**	0.32940	0.25920	**0.25533**	2.50740	1.20000	**1.47563**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01321**	0.32940	0.12960	**0.25404**	2.50740	0.60000	**1.46844**
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01500**	0.32940	0.06480	**0.25464**	2.50740	0.30000	**1.46854**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02710**	0.32940	1.03680	**0.04097**	2.50740	4.80000	**0.16255**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01298**	0.32940	0.51840	**0.01970**	2.50740	2.40000	**0.08784**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00651**	0.32940	0.25920	**0.00981**	2.50740	1.20000	**0.04337**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00331**	0.32940	0.12960	**0.00503**	2.50740	0.60000	**0.02101**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00188**	0.32940	0.06480	**0.00269**	2.50740	0.30000	**0.01096**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02122**	0.32940	1.03680	**0.03306**	2.50740	4.80000	**0.14679**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01007**	0.32940	0.51840	**0.01579**	2.50740	2.40000	**0.07388**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00508**	0.32940	0.25920	**0.00792**	2.50740	1.20000	**0.03423**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00261**	0.32940	0.12960	**0.00412**	2.50740	0.60000	**0.01809**
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00166**	0.32940	0.06480	**0.00238**	2.50740	0.30000	**0.00936**

ITL

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_einvn_8	39.84120

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_8	0.01550	0.01603	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_8	2231.03000	2546.28000	2861.52000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (FR)	0.01860	0.02008	**0.01827**	0.32940	0.53748	**0.37869**	2.50740	2.41908	**2.08561**
	TE_B->Z (RR)	0.01860	0.02008	**0.04680**	0.32940	0.53748	**0.13213**	2.50740	2.41908	**0.30739**
	TE_B->Z (FR)	0.01860	0.02008	**0.02415**	0.32940	0.53748	**0.35821**	2.50740	2.41908	**1.84548**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A->Z (RF)	0.01860	0.03009	**0.01766**	0.32940	0.54749	**0.33808**	2.50740	2.42909	**1.89998**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.02008	**0.02440**	0.32940	0.53748	**0.03059**	2.50740	2.41908	**0.08332**
	TE_B	0.01860	0.02008	**0.05386**	0.32940	0.53748	**0.03667**	2.50740	2.41908	**0.03165**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_einvn_8	A	0.01860	0.03009	**0.02123**	0.32940	0.54749	**0.02786**	2.50740	2.42909	**0.06696**

Passive power(pJ) for A rising :

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

Passive power(pJ) for A falling :

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

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**-0.00543**	0.32940	**-0.00562**	2.50740	**0.01818**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_einvn_8	0.01860	**0.01768**	0.32940	**0.03549**	2.50740	**0.06146**

KEEPSTATE

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

Truth Table

INPUT	OUTPUT
SH	SH
x	-

Footprint

Cell Name	Area
sg13g2_sighold	9.07200

Pin Capacitance Information

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

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	46.58800	363.86100	681.13400

Passive Power Information

Passive power(pJ) for SH rising :

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

Passive power(pJ) for SH falling :

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

MUX2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux2_1	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_1	0.00203	0.00201	0.00537	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	481.22000	559.06800	661.66200

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.04965**	0.32940	0.06480	**0.24635**	2.50740	0.30000	**0.84546**
	A1->X (RR)	0.01860	0.00100	**0.03729**	0.32940	0.06480	**0.24962**	2.50740	0.30000	**0.85420**
	S->X (-R)	0.01860	0.00100	**0.05546**	0.32940	0.06480	**0.24513**	2.50740	0.30000	**0.83878**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.04220**	0.32940	0.06480	**0.25375**	2.50740	0.30000	**0.82038**
	A1->X (FF)	0.01860	0.00100	**0.06268**	0.32940	0.06480	**0.25764**	2.50740	0.30000	**0.83219**
	S->X (-F)	0.01860	0.00100	**0.07041**	0.32940	0.06480	**0.24646**	2.50740	0.30000	**0.78784**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.05546**	0.32940	0.06480	**0.24513**	2.50740	0.30000	**0.83878**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.07844**	0.32940	0.06480	**0.25697**	2.50740	0.30000	**0.76565**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.07041**	0.32940	0.06480	**0.24646**	2.50740	0.30000	**0.78784**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.09070**	0.32940	0.06480	**0.26300**	2.50740	0.30000	**0.76009**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01208**	0.32940	0.06480	**0.01356**	2.50740	0.30000	**0.03592**
	A1	0.01860	0.00100	**0.01132**	0.32940	0.06480	**0.01703**	2.50740	0.30000	**0.03939**
	S	0.01860	0.00100	**0.01138**	0.32940	0.06480	**0.01267**	2.50740	0.30000	**0.03342**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01124**	0.32940	0.06480	**0.01765**	2.50740	0.30000	**0.03860**
	A1	0.01860	0.00100	**0.01208**	0.32940	0.06480	**0.01392**	2.50740	0.30000	**0.03553**
	S	0.01860	0.00100	**0.01081**	0.32940	0.06480	**0.01204**	2.50740	0.30000	**0.03219**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01148**	0.32940	0.06480	**0.01174**	2.50740	0.30000	**0.01281**
	S	(!A0 * A1)	0.01860	0.00100	**0.01138**	0.32940	0.06480	**0.01267**	2.50740	0.30000	**0.03342**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01121**	0.32940	0.06480	**0.01168**	2.50740	0.30000	**0.01264**
	S	(!A0 * A1)	0.01860	0.00100	**0.01081**	0.32940	0.06480	**0.01204**	2.50740	0.30000	**0.03219**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00502**	0.32940	**0.00643**	2.50740	**0.02591**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux2_1	0.01860	**0.00511**	0.32940	**0.00677**	2.50740	**0.02604**

MUX4

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

Truth Table

INPUT						OUTPUT
A0	A1	A2	A3	S0	S1	X
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
sg13g2_mux4_1	38.10240

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	A3	S0	S1	X
sg13g2_mux4_1	0.00286	0.00285	0.00286	0.00287	0.00825	0.00505	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	762.60600	984.28200	1144.83000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.09216**	0.32940	0.06480	**0.30494**	2.50740	0.30000	**0.97647**
	A1->X (RR)	0.01860	0.00100	**0.08991**	0.32940	0.06480	**0.30437**	2.50740	0.30000	**0.97428**
	A2->X (RR)	0.01860	0.00100	**0.09515**	0.32940	0.06480	**0.31132**	2.50740	0.30000	**0.99165**
	A3->X (RR)	0.01860	0.00100	**0.09337**	0.32940	0.06480	**0.31031**	2.50740	0.30000	**0.99025**
	S0->X (-R)	0.01860	0.00100	**0.07854**	0.32940	0.06480	**0.30453**	2.50740	0.30000	**0.98148**
	S1->X (-R)	0.01860	0.00100	**-0.00970**	0.32940	0.06480	**0.24363**	2.50740	0.30000	**0.85154**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.10229**	0.32940	0.06480	**0.29832**	2.50740	0.30000	**0.85139**
	A1->X (FF)	0.01860	0.00100	**0.10330**	0.32940	0.06480	**0.29843**	2.50740	0.30000	**0.85333**
	A2->X (FF)	0.01860	0.00100	**0.10837**	0.32940	0.06480	**0.30702**	2.50740	0.30000	**0.87083**
	A3->X (FF)	0.01860	0.00100	**0.10889**	0.32940	0.06480	**0.30680**	2.50740	0.30000	**0.86998**
	S0->X (-F)	0.01860	0.00100	**0.09170**	0.32940	0.06480	**0.30263**	2.50740	0.30000	**0.88171**
	S1->X (-F)	0.01860	0.00100	**-0.00230**	0.32940	0.06480	**0.23745**	2.50740	0.30000	**0.76542**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.07854**	0.32940	0.06480	**0.30453**	2.50740	0.30000	**0.98148**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.07469**	0.32940	0.06480	**0.29481**	2.50740	0.30000	**0.96008**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.11406**	0.32940	0.06480	**0.31460**	2.50740	0.30000	**0.86459**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.11114**	0.32940	0.06480	**0.30971**	2.50740	0.30000	**0.85718**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**-0.00970**	0.32940	0.06480	**0.24363**	2.50740	0.30000	**0.85154**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.00737**	0.32940	0.06480	**0.24413**	2.50740	0.30000	**0.85128**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**-0.00969**	0.32940	0.06480	**0.24743**	2.50740	0.30000	**0.75654**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.00760**	0.32940	0.06480	**0.24762**	2.50740	0.30000	**0.75646**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.09170**	0.32940	0.06480	**0.30263**	2.50740	0.30000	**0.88171**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.08418**	0.32940	0.06480	**0.28987**	2.50740	0.30000	**0.85690**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.12116**	0.32940	0.06480	**0.31918**	2.50740	0.30000	**0.86332**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.11534**	0.32940	0.06480	**0.31142**	2.50740	0.30000	**0.85257**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**-0.00230**	0.32940	0.06480	**0.23745**	2.50740	0.30000	**0.76542**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**-0.01039**	0.32940	0.06480	**0.23578**	2.50740	0.30000	**0.76507**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**-0.00495**	0.32940	0.06480	**0.25117**	2.50740	0.30000	**0.75791**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**-0.01040**	0.32940	0.06480	**0.25048**	2.50740	0.30000	**0.75783**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0	0.01860	0.00100	**0.01463**	0.32940	0.06480	**0.01487**	2.50740	0.30000	**0.03113**
	A1	0.01860	0.00100	**0.01414**	0.32940	0.06480	**0.01446**	2.50740	0.30000	**0.03072**
	A2	0.01860	0.00100	**0.01489**	0.32940	0.06480	**0.01523**	2.50740	0.30000	**0.03197**
	A3	0.01860	0.00100	**0.01876**	0.32940	0.06480	**0.01897**	2.50740	0.30000	**0.03544**
	S0	0.01860	0.00100	**0.00890**	0.32940	0.06480	**0.01054**	2.50740	0.30000	**0.02904**
	S1	0.01860	0.00100	**0.01224**	0.32940	0.06480	**0.03748**	2.50740	0.30000	**0.05083**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	A0	0.01860	0.00100	**0.02011**	0.32940	0.06480	**0.02068**	2.50740	0.30000	**0.03851**
	A1	0.01860	0.00100	**0.01923**	0.32940	0.06480	**0.01976**	2.50740	0.30000	**0.03774**
	A2	0.01860	0.00100	**0.02110**	0.32940	0.06480	**0.02145**	2.50740	0.30000	**0.03932**
	A3	0.01860	0.00100	**0.01975**	0.32940	0.06480	**0.02005**	2.50740	0.30000	**0.03841**
	S0	0.01860	0.00100	**0.01837**	0.32940	0.06480	**0.02126**	2.50740	0.30000	**0.00453**
	S1	0.01860	0.00100	**0.01139**	0.32940	0.06480	**0.03563**	2.50740	0.30000	**0.05451**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.02053**	0.32940	0.06480	**0.01358**	2.50740	0.30000	**-0.00310**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02048**	0.32940	0.06480	**0.01351**	2.50740	0.30000	**-0.00387**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.00882**	0.32940	0.06480	**0.01064**	2.50740	0.30000	**0.02943**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.00890**	0.32940	0.06480	**0.01054**	2.50740	0.30000	**0.02904**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01066**	0.32940	0.06480	**0.04265**	2.50740	0.30000	**0.05654**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01224**	0.32940	0.06480	**0.03748**	2.50740	0.30000	**0.05083**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01061**	0.32940	0.06480	**0.03361**	2.50740	0.30000	**0.05210**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01194**	0.32940	0.06480	**0.02921**	2.50740	0.30000	**0.04687**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.01837**	0.32940	0.06480	**0.02126**	2.50740	0.30000	**0.00453**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01807**	0.32940	0.06480	**0.02204**	2.50740	0.30000	**0.00531**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01078**	0.32940	0.06480	**0.00809**	2.50740	0.30000	**0.02805**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01077**	0.32940	0.06480	**0.00808**	2.50740	0.30000	**0.02742**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.01461**	0.32940	0.06480	**0.03157**	2.50740	0.30000	**0.04536**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01240**	0.32940	0.06480	**0.04313**	2.50740	0.30000	**0.05709**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.01262**	0.32940	0.06480	**0.02552**	2.50740	0.30000	**0.04278**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.01139**	0.32940	0.06480	**0.03563**	2.50740	0.30000	**0.05451**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00965**	0.32940	**0.01315**	2.50740	**0.05629**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00790**	0.32940	**0.01645**	2.50740	**0.05940**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00897**	0.32940	**0.01271**	2.50740	**0.05622**
	(A0 * A1 * !S1)	0.01860	**0.00965**	0.32940	**0.01315**	2.50740	**0.05629**
	(!A2 * !A3 * S1)	0.01860	**0.00910**	0.32940	**0.01297**	2.50740	**0.05652**
	(!A0 * !A1 * !S1)	0.01860	**0.01013**	0.32940	**0.01376**	2.50740	**0.05690**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00807**	0.32940	**0.01673**	2.50740	**0.05984**
	(A0 * A1 * !S1)	0.01860	**0.00868**	0.32940	**0.01874**	2.50740	**0.06154**
	(!A2 * !A3 * S1)	0.01860	**0.00790**	0.32940	**0.01645**	2.50740	**0.05940**
	(!A0 * !A1 * !S1)	0.01860	**0.00854**	0.32940	**0.01258**	2.50740	**0.05517**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00516**	0.32940	**0.00756**	2.50740	**0.03134**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	0.01860	**0.00541**	0.32940	**0.00783**	2.50740	**0.03123**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00523**	0.32940	**0.00745**	2.50740	**0.03123**
	(A0 * A2 * !S0)	0.01860	**0.00522**	0.32940	**0.00744**	2.50740	**0.03123**
	(!A1 * !A3 * S0)	0.01860	**0.00517**	0.32940	**0.00757**	2.50740	**0.03136**
	(!A0 * !A2 * !S0)	0.01860	**0.00516**	0.32940	**0.00756**	2.50740	**0.03134**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00526**	0.32940	**0.00782**	2.50740	**0.03129**
	(A0 * A2 * !S0)	0.01860	**0.00526**	0.32940	**0.00781**	2.50740	**0.03128**
	(!A1 * !A3 * S0)	0.01860	**0.00542**	0.32940	**0.00784**	2.50740	**0.03125**
	(!A0 * !A2 * !S0)	0.01860	**0.00541**	0.32940	**0.00783**	2.50740	**0.03123**

NAND2B1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2b_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00239	0.00320	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	138.12400	269.62400	373.98000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.03567**	0.32940	0.06480	**0.21947**	2.50740	0.30000	**0.81346**
	B->Y (FR)	0.01860	0.00100	**0.01913**	0.32940	0.06480	**0.27249**	2.50740	0.30000	**1.52434**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.04316**	0.32940	0.06480	**0.28405**	2.50740	0.30000	**1.05655**
	B->Y (RF)	0.01860	0.00100	**0.02716**	0.32940	0.06480	**0.31947**	2.50740	0.30000	**1.71662**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00218**	0.32940	0.06480	**0.00241**	2.50740	0.30000	**0.00424**
	B	0.01860	0.00100	**0.00230**	0.32940	0.06480	**0.00277**	2.50740	0.30000	**0.00991**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00511**	0.32940	0.06480	**0.00524**	2.50740	0.30000	**0.00499**
	B	0.01860	0.00100	**0.00504**	0.32940	0.06480	**0.00533**	2.50740	0.30000	**0.01063**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00506**	0.32940	**0.00683**	2.50740	**0.02666**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	0.01860	**0.00254**	0.32940	**0.00436**	2.50740	**0.02379**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00506**	0.32940	**0.00683**	2.50740	**0.02666**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand2b_1	!B	0.01860	**0.00254**	0.32940	**0.00436**	2.50740	**0.02379**

NAND2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_1	0.00294	0.00305	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	79.83490	198.91600	315.69900

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.01693**	0.32940	0.06480	**0.26839**	2.50740	0.30000	**1.51667**
	B->Y (FR)	0.01860	0.00100	**0.01932**	0.32940	0.06480	**0.27148**	2.50740	0.30000	**1.52177**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.02185**	0.32940	0.06480	**0.33359**	2.50740	0.30000	**1.87710**
	B->Y (RF)	0.01860	0.00100	**0.02483**	0.32940	0.06480	**0.31638**	2.50740	0.30000	**1.71579**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A	0.01860	0.00100	**0.00207**	0.32940	0.06480	**0.00261**	2.50740	0.30000	**0.00933**
	B	0.01860	0.00100	**0.00217**	0.32940	0.06480	**0.00253**	2.50740	0.30000	**0.01015**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand2_1	A	0.01860	0.00100	**0.00254**	0.32940	0.06480	**0.00291**	2.50740	0.30000	**0.00893**
	B	0.01860	0.00100	**0.00478**	0.32940	0.06480	**0.00494**	2.50740	0.30000	**0.01072**

NAND3B1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand3b_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A_N	B	C	Y
sg13g2_nand3b_1	0.00230	0.00305	0.00308	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	140.75300	315.57500	531.82700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.03727**	0.32940	0.06480	**0.21927**	2.50740	0.30000	**0.80924**
	B->Y (FR)	0.01860	0.00100	**0.02087**	0.32940	0.06480	**0.27398**	2.50740	0.30000	**1.52333**
	C->Y (FR)	0.01860	0.00100	**0.02233**	0.32940	0.06480	**0.27625**	2.50740	0.30000	**1.52520**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.05213**	0.32940	0.06480	**0.37452**	2.50740	0.30000	**1.44874**
	B->Y (RF)	0.01860	0.00100	**0.04014**	0.32940	0.06480	**0.41022**	2.50740	0.30000	**2.12702**
	C->Y (RF)	0.01860	0.00100	**0.04390**	0.32940	0.06480	**0.39526**	2.50740	0.30000	**1.95999**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00233**	0.32940	0.06480	**0.00259**	2.50740	0.30000	**0.00272**
	B	0.01860	0.00100	**0.00265**	0.32940	0.06480	**0.00299**	2.50740	0.30000	**0.00895**
	C	0.01860	0.00100	**0.00295**	0.32940	0.06480	**0.00305**	2.50740	0.30000	**0.00977**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00651**	0.32940	0.06480	**0.00655**	2.50740	0.30000	**0.00558**
	B	0.01860	0.00100	**0.00639**	0.32940	0.06480	**0.00640**	2.50740	0.30000	**0.01035**
	C	0.01860	0.00100	**0.00863**	0.32940	0.06480	**0.00858**	2.50740	0.30000	**0.01311**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00497**	0.32940	**0.00676**	2.50740	**0.02660**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	0.01860	**0.00257**	0.32940	**0.00439**	2.50740	**0.02382**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00497**	0.32940	**0.00676**	2.50740	**0.02660**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00257**	0.32940	**0.00439**	2.50740	**0.02382**

NOR2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2_1	7.25760

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_1	0.00307	0.00293	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	153.46400	198.33500	256.16900

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.02865**	0.32940	0.06480	**0.35814**	2.50740	0.30000	**1.86303**
	B->Y (FR)	0.01860	0.00100	**0.02431**	0.32940	0.06480	**0.37770**	2.50740	0.30000	**2.07490**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.01868**	0.32940	0.06480	**0.25902**	2.50740	0.30000	**1.47212**
	B->Y (RF)	0.01860	0.00100	**0.01639**	0.32940	0.06480	**0.25553**	2.50740	0.30000	**1.46723**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A	0.01860	0.00100	**0.00544**	0.32940	0.06480	**0.00564**	2.50740	0.30000	**0.01073**
	B	0.01860	0.00100	**0.00263**	0.32940	0.06480	**0.00313**	2.50740	0.30000	**0.00977**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor2_1	A	0.01860	0.00100	**0.00210**	0.32940	0.06480	**0.00242**	2.50740	0.30000	**0.00823**
	B	0.01860	0.00100	**0.00193**	0.32940	0.06480	**0.00243**	2.50740	0.30000	**0.00841**

NOR3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_1	0.00306	0.00300	0.00289	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	155.62800	258.00300	375.68400

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.04933**	0.32940	0.06480	**0.47118**	2.50740	0.30000	**2.24790**
	B->Y (FR)	0.01860	0.00100	**0.04593**	0.32940	0.06480	**0.48843**	2.50740	0.30000	**2.43515**
	C->Y (FR)	0.01860	0.00100	**0.03529**	0.32940	0.06480	**0.49416**	2.50740	0.30000	**2.56110**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.02062**	0.32940	0.06480	**0.26358**	2.50740	0.30000	**1.47601**
	B->Y (RF)	0.01860	0.00100	**0.02033**	0.32940	0.06480	**0.26153**	2.50740	0.30000	**1.47732**
	C->Y (RF)	0.01860	0.00100	**0.01802**	0.32940	0.06480	**0.25816**	2.50740	0.30000	**1.47268**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A	0.01860	0.00100	**0.00911**	0.32940	0.06480	**0.00905**	2.50740	0.30000	**0.01388**
	B	0.01860	0.00100	**0.00669**	0.32940	0.06480	**0.00667**	2.50740	0.30000	**0.01071**
	C	0.01860	0.00100	**0.00389**	0.32940	0.06480	**0.00426**	2.50740	0.30000	**0.00893**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor3_1	A	0.01860	0.00100	**0.00272**	0.32940	0.06480	**0.00281**	2.50740	0.30000	**0.00782**
	B	0.01860	0.00100	**0.00251**	0.32940	0.06480	**0.00275**	2.50740	0.30000	**0.00777**
	C	0.01860	0.00100	**0.00214**	0.32940	0.06480	**0.00275**	2.50740	0.30000	**0.00823**

NOR4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor4_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_1	0.00307	0.00298	0.00255	0.00260	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	158.08100	330.20800	496.99000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.07504**	0.32940	0.06480	**0.60489**	2.50740	0.30000	**2.68889**
	B->Y (FR)	0.01860	0.00100	**0.07193**	0.32940	0.06480	**0.61361**	2.50740	0.30000	**2.82940**
	C->Y (FR)	0.01860	0.00100	**0.06287**	0.32940	0.06480	**0.62009**	2.50740	0.30000	**2.97895**
	D->Y (FR)	0.01860	0.00100	**0.04511**	0.32940	0.06480	**0.61423**	2.50740	0.30000	**3.05866**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.02143**	0.32940	0.06480	**0.26696**	2.50740	0.30000	**1.48164**
	B->Y (RF)	0.01860	0.00100	**0.02192**	0.32940	0.06480	**0.26565**	2.50740	0.30000	**1.48099**
	C->Y (RF)	0.01860	0.00100	**0.02134**	0.32940	0.06480	**0.26294**	2.50740	0.30000	**1.47910**
	D->Y (RF)	0.01860	0.00100	**0.01885**	0.32940	0.06480	**0.25917**	2.50740	0.30000	**1.47194**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A	0.01860	0.00100	**0.01063**	0.32940	0.06480	**0.01048**	2.50740	0.30000	**0.01420**
	B	0.01860	0.00100	**0.00955**	0.32940	0.06480	**0.00941**	2.50740	0.30000	**0.01274**
	C	0.01860	0.00100	**0.00789**	0.32940	0.06480	**0.00781**	2.50740	0.30000	**0.01114**
	D	0.01860	0.00100	**0.00564**	0.32940	0.06480	**0.00595**	2.50740	0.30000	**0.01002**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_nor4_1	A	0.01860	0.00100	**0.00335**	0.32940	0.06480	**0.00342**	2.50740	0.30000	**0.00780**
	B	0.01860	0.00100	**0.00335**	0.32940	0.06480	**0.00351**	2.50740	0.30000	**0.00750**
	C	0.01860	0.00100	**0.00161**	0.32940	0.06480	**0.00185**	2.50740	0.30000	**0.00640**
	D	0.01860	0.00100	**0.00076**	0.32940	0.06480	**0.00130**	2.50740	0.30000	**0.00618**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00006**	0.32940	**-0.00012**	2.50740	**-0.00016**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00160**	0.32940	**0.00163**	2.50740	**0.00163**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00006**	0.32940	**-0.00012**	2.50740	**-0.00016**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00160**	0.32940	**0.00163**	2.50740	**0.00163**

Passive power(pJ) for B rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00008**	0.32940	**-0.00024**	2.50740	**-0.00027**

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00030**	0.32940	**0.00032**	2.50740	**0.00032**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!A * C) + (!A * !C * D)	0.01860	**-0.00008**	0.32940	**-0.00024**	2.50740	**-0.00027**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(!A * C) + (!A * !C * D)	0.01860	**0.00030**	0.32940	**0.00032**	2.50740	**0.00032**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00121**	0.32940	**0.00122**	2.50740	**0.00123**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00044**	0.32940	**-0.00044**	2.50740	**-0.00043**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !D) + (!A * B * !D)	0.01860	**0.00121**	0.32940	**0.00122**	2.50740	**0.00123**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !D) + (!A * B * !D)	0.01860	**-0.00044**	0.32940	**-0.00044**	2.50740	**-0.00043**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**0.00151**	0.32940	**0.00152**	2.50740	**0.00152**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	0.01860	**-0.00098**	0.32940	**-0.00100**	2.50740	**-0.00100**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	(A * !C) + (!A * B * !C)	0.01860	**0.00151**	0.32940	**0.00152**	2.50740	**0.00152**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_nor4_1	**(A * !C) + (!A * B * !C)**	0.01860	**-0.00098**	0.32940	**-0.00100**	2.50740	**-0.00100**

NP_ANT

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

Truth Table

INPUT
A
x

Footprint

Cell Name	Area
sg13g2_antennanp	5.44320

Pin Capacitance Information

Cell Name	Pin Cap(pf)
	A
sg13g2_antennanp	0.00106

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	5.22717	5.22717	5.22717

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**-0.00037**	0.32940	**-0.00037**	2.50740	**-0.00038**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_antennanp	0.01860	**0.00037**	0.32940	**0.00038**	2.50740	**0.00038**

OR2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or2_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_1	0.00234	0.00228	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	187.52400	238.23900	274.40800

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.03827**	0.32940	0.06480	**0.22954**	2.50740	0.30000	**0.81782**
	B->X (RR)	0.01860	0.00100	**0.03543**	0.32940	0.06480	**0.21866**	2.50740	0.30000	**0.77927**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.06005**	0.32940	0.06480	**0.22804**	2.50740	0.30000	**0.74503**
	B->X (FF)	0.01860	0.00100	**0.05585**	0.32940	0.06480	**0.23510**	2.50740	0.30000	**0.77927**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A	0.01860	0.00100	**0.00699**	0.32940	0.06480	**0.00820**	2.50740	0.30000	**0.02626**
	B	0.01860	0.00100	**0.00704**	0.32940	0.06480	**0.00862**	2.50740	0.30000	**0.02659**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or2_1	A	0.01860	0.00100	**0.00935**	0.32940	0.06480	**0.01026**	2.50740	0.30000	**0.02648**
	B	0.01860	0.00100	**0.00727**	0.32940	0.06480	**0.00893**	2.50740	0.30000	**0.02691**

OR3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or3_1	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_1	0.00258	0.00253	0.00245	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	191.90600	284.52600	364.63500

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.04367**	0.32940	0.06480	**0.24967**	2.50740	0.30000	**0.88075**
	B->X (RR)	0.01860	0.00100	**0.04179**	0.32940	0.06480	**0.23933**	2.50740	0.30000	**0.83664**
	C->X (RR)	0.01860	0.00100	**0.03804**	0.32940	0.06480	**0.22716**	2.50740	0.30000	**0.79670**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.08488**	0.32940	0.06480	**0.25393**	2.50740	0.30000	**0.75449**
	B->X (FF)	0.01860	0.00100	**0.08116**	0.32940	0.06480	**0.26139**	2.50740	0.30000	**0.80767**
	C->X (FF)	0.01860	0.00100	**0.07122**	0.32940	0.06480	**0.25984**	2.50740	0.30000	**0.81941**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A	0.01860	0.00100	**0.00755**	0.32940	0.06480	**0.00867**	2.50740	0.30000	**0.02767**
	B	0.01860	0.00100	**0.00731**	0.32940	0.06480	**0.00835**	2.50740	0.30000	**0.02605**
	C	0.01860	0.00100	**0.00715**	0.32940	0.06480	**0.00844**	2.50740	0.30000	**0.02628**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or3_1	A	0.01860	0.00100	**0.01324**	0.32940	0.06480	**0.01359**	2.50740	0.30000	**0.03010**
	B	0.01860	0.00100	**0.01108**	0.32940	0.06480	**0.01186**	2.50740	0.30000	**0.02866**
	C	0.01860	0.00100	**0.00865**	0.32940	0.06480	**0.01015**	2.50740	0.30000	**0.02800**

OR4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or4_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_1	0.00261	0.00258	0.00211	0.00219	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	194.36000	322.71900	433.56400

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.04558**	0.32940	0.06480	**0.25990**	2.50740	0.30000	**0.89796**
	B->X (RR)	0.01860	0.00100	**0.04504**	0.32940	0.06480	**0.25220**	2.50740	0.30000	**0.86019**
	C->X (RR)	0.01860	0.00100	**0.04280**	0.32940	0.06480	**0.24187**	2.50740	0.30000	**0.82010**
	D->X (RR)	0.01860	0.00100	**0.03887**	0.32940	0.06480	**0.22958**	2.50740	0.30000	**0.78157**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.11734**	0.32940	0.06480	**0.29433**	2.50740	0.30000	**0.80421**
	B->X (FF)	0.01860	0.00100	**0.11369**	0.32940	0.06480	**0.29807**	2.50740	0.30000	**0.85885**
	C->X (FF)	0.01860	0.00100	**0.10457**	0.32940	0.06480	**0.29778**	2.50740	0.30000	**0.89157**
	D->X (FF)	0.01860	0.00100	**0.08820**	0.32940	0.06480	**0.29112**	2.50740	0.30000	**0.89446**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A	0.01860	0.00100	**0.00842**	0.32940	0.06480	**0.00934**	2.50740	0.30000	**0.02637**
	B	0.01860	0.00100	**0.00832**	0.32940	0.06480	**0.00919**	2.50740	0.30000	**0.02515**
	C	0.01860	0.00100	**0.00656**	0.32940	0.06480	**0.00735**	2.50740	0.30000	**0.02336**
	D	0.01860	0.00100	**0.00603**	0.32940	0.06480	**0.00716**	2.50740	0.30000	**0.02340**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_or4_1	A	0.01860	0.00100	**0.01281**	0.32940	0.06480	**0.01271**	2.50740	0.30000	**0.02834**
	B	0.01860	0.00100	**0.01305**	0.32940	0.06480	**0.01304**	2.50740	0.30000	**0.02838**
	C	0.01860	0.00100	**0.01186**	0.32940	0.06480	**0.01207**	2.50740	0.30000	**0.02695**
	D	0.01860	0.00100	**0.00898**	0.32940	0.06480	**0.01001**	2.50740	0.30000	**0.02575**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00033**	0.32940	**-0.00034**	2.50740	**-0.00036**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00316**	0.32940	**0.00319**	2.50740	**0.00317**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	**(!B * C) + (!B * !C * D)**	0.01860	**-0.00033**	0.32940	**-0.00034**	2.50740	**-0.00036**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!B * C) + (!B * !C * D)	0.01860	**0.00316**	0.32940	**0.00319**	2.50740	**0.00317**

Passive power(pJ) for B rising :

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

Passive power(pJ) for B falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00077**	0.32940	**0.00080**	2.50740	**0.00079**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!A * C) + (!A * !C * D)	0.01860	**-0.00045**	0.32940	**-0.00045**	2.50740	**-0.00045**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(!A * C) + (!A * !C * D)	0.01860	**0.00077**	0.32940	**0.00080**	2.50740	**0.00079**

Passive power(pJ) for C rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00092**	0.32940	**0.00094**	2.50740	**0.00094**

Passive power(pJ) for C falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**-0.00019**	0.32940	**-0.00019**	2.50740	**-0.00019**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !D) + (!A * B * !D)	0.01860	**0.00092**	0.32940	**0.00094**	2.50740	**0.00094**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !D) + (!A * B * !D)	0.01860	**-0.00019**	0.32940	**-0.00019**	2.50740	**-0.00019**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00120**	0.32940	**0.00121**	2.50740	**0.00121**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	0.01860	**0.00026**	0.32940	**0.00026**	2.50740	**0.00028**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	(A * !C) + (!A * B * !C)	0.01860	**0.00120**	0.32940	**0.00121**	2.50740	**0.00121**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_or4_1	**(A * !C) + (!A * B * !C)**	0.01860	**0.00026**	0.32940	**0.00026**	2.50740	**0.00028**

SDFRRS

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	D	SCD	SCE	RESET_B	SET_B	CLK	Q	Q_N
sg13g2_sdfbbp_1	0.00180	0.00201	0.00347	0.00171	0.00523	0.00315	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	1508.44000	1693.57000	1790.09000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.18709**	0.32940	0.06480	**0.37303**	2.50740	0.30000	**0.93883**
	SET_B->Q (FR)	0.01860	0.00100	**0.07838**	0.32940	0.06480	**0.28009**	2.50740	0.30000	**0.85349**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.15849**	0.32940	0.06480	**0.33008**	2.50740	0.30000	**0.84600**
	RESET_B->Q (FF)	0.01860	0.00100	**0.13345**	0.32940	0.06480	**0.31583**	2.50740	0.30000	**0.82990**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.18709**	0.32940	0.06480	**0.37303**	2.50740	0.30000	**0.93883**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.15849**	0.32940	0.06480	**0.33008**	2.50740	0.30000	**0.84600**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.12980**	0.32940	0.06480	**0.33346**	2.50740	0.30000	**0.91965**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.10390**	0.32940	0.06480	**0.32451**	2.50740	0.30000	**0.91316**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.15567**	0.32940	0.06480	**0.35102**	2.50740	0.30000	**0.85354**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.05260**	0.32940	0.06480	**0.25776**	2.50740	0.30000	**0.78248**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.12980**	0.32940	0.06480	**0.33346**	2.50740	0.30000	**0.91965**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.15567**	0.32940	0.06480	**0.35102**	2.50740	0.30000	**0.85354**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.19158**	2.50740	2.50740	**-0.25973**
	setup	CLK (R)	0.01860	0.01860	**0.08558**	1.26300	1.26300	**0.21047**	2.50740	2.50740	**0.28040**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.06113**	1.26300	1.26300	**-0.11873**	2.50740	2.50740	**-0.14463**
	setup	CLK (R)	0.01860	0.01860	**0.11003**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.26269**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.07580**	1.26300	1.26300	**-0.22666**	2.50740	2.50740	**-0.30991**
	setup	CLK (R)	0.01860	0.01860	**0.10514**	1.26300	1.26300	**0.24015**	2.50740	2.50740	**0.32467**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.08069**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.16234**
	setup	CLK (R)	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.20508**	2.50740	2.50740	**0.27154**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.20508**	2.50740	2.50740	**-0.28630**
	setup	CLK (R)	0.01860	0.01860	**0.09292**	1.26300	1.26300	**0.23746**	2.50740	2.50740	**0.32762**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.06113**	1.26300	1.26300	**-0.08365**	2.50740	2.50740	**-0.08855**
	setup	CLK (R)	0.01860	0.01860	**0.11248**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.20661**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.09714**	2.50740	2.50740	**0.12101**
	removal	CLK (R)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.07286**	2.50740	2.50740	**-0.08855**

Min Pulse Width (ns) for RESET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	Min	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Max
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**0.24285**	2.50740	2.50740	**0.56079**
	removal	CLK (R)	0.01860	0.01860	**0.01956**	1.26300	1.26300	**0.05936**	2.50740	2.50740	**0.05903**
	hold	RESET_B (R)	0.01860	0.01860	**-0.05135**	1.26300	1.26300	**-0.15920**	2.50740	2.50740	**-0.22727**
	setup	RESET_B (R)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.19158**	2.50740	2.50740	**0.28925**

Min Pulse Width (ns) for SET_B:

Cell Name	High	Low
sg13g2_sdfbbp_1	-	3.3435

Min Pulse Width (ns) for CLK:

Cell Name	High	Low
sg13g2_sdfbbp_1	3.3435	3.3435

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01220**	0.32940	0.06480	**0.01268**	2.50740	0.30000	**0.01309**
	SET_B	0.01860	0.00100	**0.03630**	0.32940	0.06480	**0.09479**	2.50740	0.30000	**0.33729**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01221**	0.32940	0.06480	**0.01246**	2.50740	0.30000	**0.01441**
	RESET_B	0.01860	0.00100	**0.04191**	0.32940	0.06480	**0.09863**	2.50740	0.30000	**0.32313**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01220**	0.32940	0.06480	**0.01268**	2.50740	0.30000	**0.01309**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01221**	0.32940	0.06480	**0.01246**	2.50740	0.30000	**0.01441**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01221**	0.32940	0.06480	**0.01256**	2.50740	0.30000	**0.01353**
	RESET_B	0.01860	0.00100	**0.04192**	0.32940	0.06480	**0.09890**	2.50740	0.30000	**0.32127**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.01220**	0.32940	0.06480	**0.01251**	2.50740	0.30000	**0.01364**
	SET_B	0.01860	0.00100	**0.03628**	0.32940	0.06480	**0.09455**	2.50740	0.30000	**0.33560**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01221**	0.32940	0.06480	**0.01256**	2.50740	0.30000	**0.01353**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.01220**	0.32940	0.06480	**0.01251**	2.50740	0.30000	**0.01364**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00698**	0.32940	**0.00749**	2.50740	**0.01875**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00545**	0.32940	**0.00613**	2.50740	**0.01724**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.01262**	0.32940	**0.01326**	2.50740	**0.02577**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00698**	0.32940	**0.00749**	2.50740	**0.01875**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * !SCE * SET_B)	0.01860	**0.01373**	0.32940	**0.01441**	2.50740	**0.02695**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00545**	0.32940	**0.00613**	2.50740	**0.01724**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.00899**	0.32940	**0.00927**	2.50740	**0.01936**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01000**	0.32940	**0.01035**	2.50740	**0.02061**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01456**	0.32940	**0.01494**	2.50740	**0.02623**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00899**	0.32940	**0.00927**	2.50740	**0.01936**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01943**	0.32940	**0.01940**	2.50740	**0.03104**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.01000**	0.32940	**0.01035**	2.50740	**0.02061**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01668**	0.32940	**0.01799**	2.50740	**0.03326**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01718**	0.32940	**0.01859**	2.50740	**0.03338**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01668**	0.32940	**0.01799**	2.50740	**0.03326**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02231**	0.32940	**0.02273**	2.50740	**0.03795**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01492**	0.32940	**0.01708**	2.50740	**0.04489**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00885**	0.32940	**0.01100**	2.50740	**0.03732**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01718**	0.32940	**0.01859**	2.50740	**0.03338**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02031**	0.32940	**0.02922**	2.50740	**0.04407**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.00469**	0.32940	**0.03233**	2.50740	**0.05906**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00924**	0.32940	**0.01117**	2.50740	**0.03660**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01362**	0.32940	**0.01582**	2.50740	**0.04426**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	0.01860	**0.01687**	0.32940	**0.01958**	2.50740	**0.04826**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01296**	0.32940	**0.01509**	2.50740	**0.04361**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01844**	0.32940	**0.02062**	2.50740	**0.04889**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01305**	0.32940	**0.01518**	2.50740	**0.04371**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01296**	0.32940	**0.01509**	2.50740	**0.04361**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01362**	0.32940	**0.01582**	2.50740	**0.04426**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01304**	0.32940	**0.01518**	2.50740	**0.04371**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	Min	Slew(ns)	Mid	Slew(ns)	Max
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01156**	0.32940	**0.01385**	2.50740	**0.04201**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.02146**	0.32940	**0.02379**	2.50740	**0.05272**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01687**	0.32940	**0.01958**	2.50740	**0.04826**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.02366**	0.32940	**0.02633**	2.50740	**0.05503**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01186**	0.32940	**0.01425**	2.50740	**0.04227**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01157**	0.32940	**0.01385**	2.50740	**0.04201**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01185**	0.32940	**0.01424**	2.50740	**0.04228**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01186**	0.32940	**0.01424**	2.50740	**0.04227**

TIE0

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

Footprint

Cell Name	Area
sg13g2_tielo	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_LO
sg13g2_tielo	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tielo	246.49400	246.49400	246.49400

TIE1

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

Footprint

Cell Name	Area
sg13g2_tiehi	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_HI
sg13g2_tiehi	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tiehi	230.87300	230.87300	230.87300

XNOR2_1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xnor2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_xnor2_1	0.00579	0.00492	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	260.31500	440.18500	585.59700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (RR)	0.01860	0.00100	**0.05034**	0.32940	0.06480	**0.23244**	2.50740	0.30000	**0.82727**
	A->Y (FR)	0.01860	0.00100	**0.03637**	0.32940	0.06480	**0.36711**	2.50740	0.30000	**1.87255**
	B->Y (RR)	0.01860	0.00100	**0.04620**	0.32940	0.06480	**0.23374**	2.50740	0.30000	**0.84240**
	B->Y (FR)	0.01860	0.00100	**0.03169**	0.32940	0.06480	**0.38690**	2.50740	0.30000	**2.08171**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A->Y (FF)	0.01860	0.00100	**0.04874**	0.32940	0.06480	**0.30219**	2.50740	0.30000	**1.10030**
	A->Y (RF)	0.01860	0.00100	**0.03433**	0.32940	0.06480	**0.32943**	2.50740	0.30000	**1.73120**
	B->Y (FF)	0.01860	0.00100	**0.04926**	0.32940	0.06480	**0.29290**	2.50740	0.30000	**1.07807**
	B->Y (RF)	0.01860	0.00100	**0.02868**	0.32940	0.06480	**0.32255**	2.50740	0.30000	**1.71913**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00942**	0.32940	0.06480	**0.01035**	2.50740	0.30000	**0.03148**
	B	0.01860	0.00100	**0.00917**	0.32940	0.06480	**0.01045**	2.50740	0.30000	**0.03074**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00854**	0.32940	0.06480	**0.01036**	2.50740	0.30000	**0.02919**
	B	0.01860	0.00100	**0.00924**	0.32940	0.06480	**0.00961**	2.50740	0.30000	**0.02980**

XOR2_1

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xor2_1	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00591	0.00504	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	333.27100	407.80400	475.69000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (RR)	0.01860	0.00100	**0.04861**	0.32940	0.06480	**0.35819**	2.50740	0.30000	**1.39611**
	A->X (FR)	0.01860	0.00100	**0.04018**	0.32940	0.06480	**0.37217**	2.50740	0.30000	**1.88312**
	B->X (RR)	0.01860	0.00100	**0.05029**	0.32940	0.06480	**0.34705**	2.50740	0.30000	**1.35429**
	B->X (FR)	0.01860	0.00100	**0.03424**	0.32940	0.06480	**0.36564**	2.50740	0.30000	**1.87032**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A->X (FF)	0.01860	0.00100	**0.05748**	0.32940	0.06480	**0.21915**	2.50740	0.30000	**0.70456**
	A->X (RF)	0.01860	0.00100	**0.03211**	0.32940	0.06480	**0.32601**	2.50740	0.30000	**1.72294**
	B->X (FF)	0.01860	0.00100	**0.05282**	0.32940	0.06480	**0.22340**	2.50740	0.30000	**0.73075**
	B->X (RF)	0.01860	0.00100	**0.02820**	0.32940	0.06480	**0.34170**	2.50740	0.30000	**1.88490**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.00804**	0.32940	0.06480	**0.00945**	2.50740	0.30000	**0.02808**
	B	0.01860	0.00100	**0.00854**	0.32940	0.06480	**0.00878**	2.50740	0.30000	**0.02794**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	Min	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Max
sg13g2_xor2_1	A	0.01860	0.00100	**0.01065**	0.32940	0.06480	**0.01173**	2.50740	0.30000	**0.03031**
	B	0.01860	0.00100	**0.00973**	0.32940	0.06480	**0.01142**	2.50740	0.30000	**0.03151**