sg13g2_stdcell_fast_1p32V_m40C Library

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

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

A21OIx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a21oi_1	9.07200
sg13g2_a21oi_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_a21oi_1	0.00323	0.00330	0.00306	0.30000
sg13g2_a21oi_2	0.00625	0.00659	0.00601	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21oi_1	158.88400	291.77500	382.44400
sg13g2_a21oi_2	317.74400	583.53800	764.88300

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (FR)	0.01860	0.00100	**0.03219**	0.32940	0.06480	**0.36785**	2.50740	0.30000	**1.87049**
	A2->Y (FR)	0.01860	0.00100	**0.03767**	0.32940	0.06480	**0.37428**	2.50740	0.30000	**1.87879**
	B1->Y (FR)	0.01860	0.00100	**0.03081**	0.32940	0.06480	**0.39976**	2.50740	0.30000	**2.10598**
sg13g2_a21oi_2	A1->Y (FR)	0.01860	0.00100	**0.02954**	0.32940	0.12960	**0.36848**	2.50740	0.60000	**1.87310**
	A2->Y (FR)	0.01860	0.00100	**0.03521**	0.32940	0.12960	**0.37384**	2.50740	0.60000	**1.87825**
	B1->Y (FR)	0.01860	0.00100	**0.02833**	0.32940	0.12960	**0.39922**	2.50740	0.60000	**2.10383**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1->Y (RF)	0.01860	0.00100	**0.02969**	0.32940	0.06480	**0.35752**	2.50740	0.30000	**1.89053**
	A2->Y (RF)	0.01860	0.00100	**0.03226**	0.32940	0.06480	**0.33199**	2.50740	0.30000	**1.70929**
	B1->Y (RF)	0.01860	0.00100	**0.01688**	0.32940	0.06480	**0.26224**	2.50740	0.30000	**1.45488**
sg13g2_a21oi_2	A1->Y (RF)	0.01860	0.00100	**0.02733**	0.32940	0.12960	**0.35739**	2.50740	0.60000	**1.89164**
	A2->Y (RF)	0.01860	0.00100	**0.03021**	0.32940	0.12960	**0.33207**	2.50740	0.60000	**1.71131**
	B1->Y (RF)	0.01860	0.00100	**0.01528**	0.32940	0.12960	**0.26152**	2.50740	0.60000	**1.45278**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.03081**	0.32940	0.06480	**0.39976**	2.50740	0.30000	**2.10598**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02444**	0.32940	0.06480	**0.39174**	2.50740	0.30000	**2.09272**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.02064**	0.32940	0.06480	**0.33277**	2.50740	0.30000	**1.81342**
sg13g2_a21oi_2	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.02833**	0.32940	0.12960	**0.39922**	2.50740	0.60000	**2.10383**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02177**	0.32940	0.12960	**0.39320**	2.50740	0.60000	**2.10226**
	B1->Y (FR)	(!A1 * !A2)	0.01860	0.00100	**0.01850**	0.32940	0.12960	**0.33313**	2.50740	0.60000	**1.81671**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01688**	0.32940	0.06480	**0.26224**	2.50740	0.30000	**1.45488**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01661**	0.32940	0.06480	**0.26127**	2.50740	0.30000	**1.45224**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01638**	0.32940	0.06480	**0.26104**	2.50740	0.30000	**1.45333**
sg13g2_a21oi_2	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.01528**	0.32940	0.12960	**0.26152**	2.50740	0.60000	**1.45278**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.01497**	0.32940	0.12960	**0.26059**	2.50740	0.60000	**1.44993**
	B1->Y (RF)	(!A1 * !A2)	0.01860	0.00100	**0.01474**	0.32940	0.12960	**0.26041**	2.50740	0.60000	**1.45113**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00548**	0.32940	0.06480	**0.00570**	2.50740	0.30000	**0.01059**
	A2	0.01860	0.00100	**0.00576**	0.32940	0.06480	**0.00579**	2.50740	0.30000	**0.01075**
	B1	0.01860	0.00100	**0.00295**	0.32940	0.06480	**0.00355**	2.50740	0.30000	**0.00981**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.01092**	0.32940	0.12960	**0.01149**	2.50740	0.60000	**0.02118**
	A2	0.01860	0.00100	**0.01160**	0.32940	0.12960	**0.01174**	2.50740	0.60000	**0.02158**
	B1	0.01860	0.00100	**0.00603**	0.32940	0.12960	**0.00733**	2.50740	0.60000	**0.01977**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	A1	0.01860	0.00100	**0.00358**	0.32940	0.06480	**0.00379**	2.50740	0.30000	**0.00911**
	A2	0.01860	0.00100	**0.00571**	0.32940	0.06480	**0.00575**	2.50740	0.30000	**0.01057**
	B1	0.01860	0.00100	**0.00197**	0.32940	0.06480	**0.00277**	2.50740	0.30000	**0.00953**
sg13g2_a21oi_2	A1	0.01860	0.00100	**0.00638**	0.32940	0.12960	**0.00684**	2.50740	0.60000	**0.01731**
	A2	0.01860	0.00100	**0.01085**	0.32940	0.12960	**0.01093**	2.50740	0.60000	**0.02053**
	B1	0.01860	0.00100	**0.00314**	0.32940	0.12960	**0.00495**	2.50740	0.60000	**0.01725**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00295**	0.32940	0.06480	**0.00355**	2.50740	0.30000	**0.00981**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00260**	0.32940	0.06480	**0.00336**	2.50740	0.30000	**0.00960**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00261**	0.32940	0.06480	**0.00336**	2.50740	0.30000	**0.01051**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00603**	0.32940	0.12960	**0.00733**	2.50740	0.60000	**0.01977**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00512**	0.32940	0.12960	**0.00671**	2.50740	0.60000	**0.01925**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00515**	0.32940	0.12960	**0.00676**	2.50740	0.60000	**0.02105**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21oi_1	B1	(A1 * !A2)	0.01860	0.00100	**0.00419**	0.32940	0.06480	**0.00497**	2.50740	0.30000	**0.01072**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00207**	0.32940	0.06480	**0.00290**	2.50740	0.30000	**0.00860**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00197**	0.32940	0.06480	**0.00277**	2.50740	0.30000	**0.00953**
sg13g2_a21oi_2	B1	(A1 * !A2)	0.01860	0.00100	**0.00757**	0.32940	0.12960	**0.00931**	2.50740	0.60000	**0.02082**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00334**	0.32940	0.12960	**0.00511**	2.50740	0.60000	**0.01656**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00314**	0.32940	0.12960	**0.00495**	2.50740	0.60000	**0.01725**

A21Ox

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
sg13g2_a21o_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	X
sg13g2_a21o_1	0.00294	0.00305	0.00284	0.30000
sg13g2_a21o_2	0.00313	0.00315	0.00296	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a21o_1	298.71200	357.43800	398.14400
sg13g2_a21o_2	433.42800	496.68500	579.99300

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	0.01860	0.00100	**0.05762**	0.32940	0.06480	**0.25750**	2.50740	0.30000	**0.88170**
	A2->X (RR)	0.01860	0.00100	**0.05987**	0.32940	0.06480	**0.25156**	2.50740	0.30000	**0.85696**
	B1->X (RR)	0.01860	0.00100	**0.03793**	0.32940	0.06480	**0.22294**	2.50740	0.30000	**0.79015**
sg13g2_a21o_2	A1->X (RR)	0.01860	0.00100	**0.06191**	0.32940	0.12960	**0.27439**	2.50740	0.60000	**0.89770**
	A2->X (RR)	0.01860	0.00100	**0.06401**	0.32940	0.12960	**0.26630**	2.50740	0.60000	**0.86807**
	B1->X (RR)	0.01860	0.00100	**0.04051**	0.32940	0.12960	**0.23822**	2.50740	0.60000	**0.80643**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	0.01860	0.00100	**0.06135**	0.32940	0.06480	**0.22526**	2.50740	0.30000	**0.70840**
	A2->X (FF)	0.01860	0.00100	**0.06727**	0.32940	0.06480	**0.23684**	2.50740	0.30000	**0.73643**
	B1->X (FF)	0.01860	0.00100	**0.06058**	0.32940	0.06480	**0.23965**	2.50740	0.30000	**0.77365**
sg13g2_a21o_2	A1->X (FF)	0.01860	0.00100	**0.07705**	0.32940	0.12960	**0.26166**	2.50740	0.60000	**0.79864**
	A2->X (FF)	0.01860	0.00100	**0.08362**	0.32940	0.12960	**0.27351**	2.50740	0.60000	**0.82801**
	B1->X (FF)	0.01860	0.00100	**0.07723**	0.32940	0.12960	**0.28249**	2.50740	0.60000	**0.87851**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (RR)	!B1	0.01860	0.00100	**0.05762**	0.32940	0.06480	**0.25750**	2.50740	0.30000	**0.88170**
	A2->X (RR)	!B1	0.01860	0.00100	**0.05987**	0.32940	0.06480	**0.25156**	2.50740	0.30000	**0.85696**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.03793**	0.32940	0.06480	**0.22294**	2.50740	0.30000	**0.79015**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03589**	0.32940	0.06480	**0.21244**	2.50740	0.30000	**0.75933**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.03570**	0.32940	0.06480	**0.21308**	2.50740	0.30000	**0.77417**
sg13g2_a21o_2	A1->X (RR)	!B1	0.01860	0.00100	**0.06191**	0.32940	0.12960	**0.27439**	2.50740	0.60000	**0.89770**
	A2->X (RR)	!B1	0.01860	0.00100	**0.06401**	0.32940	0.12960	**0.26630**	2.50740	0.60000	**0.86807**
	B1->X (RR)	(A1 * !A2)	0.01860	0.00100	**0.04051**	0.32940	0.12960	**0.23822**	2.50740	0.60000	**0.80643**
	B1->X (RR)	(!A1 * A2)	0.01860	0.00100	**0.03906**	0.32940	0.12960	**0.22935**	2.50740	0.60000	**0.77862**
	B1->X (RR)	(!A1 * !A2)	0.01860	0.00100	**0.03890**	0.32940	0.12960	**0.22968**	2.50740	0.60000	**0.79297**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1->X (FF)	!B1	0.01860	0.00100	**0.06135**	0.32940	0.06480	**0.22526**	2.50740	0.30000	**0.70840**
	A2->X (FF)	!B1	0.01860	0.00100	**0.06727**	0.32940	0.06480	**0.23684**	2.50740	0.30000	**0.73643**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.06058**	0.32940	0.06480	**0.23965**	2.50740	0.30000	**0.77365**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.05370**	0.32940	0.06480	**0.22554**	2.50740	0.30000	**0.74893**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.04527**	0.32940	0.06480	**0.21014**	2.50740	0.30000	**0.70474**
sg13g2_a21o_2	A1->X (FF)	!B1	0.01860	0.00100	**0.07705**	0.32940	0.12960	**0.26166**	2.50740	0.60000	**0.79864**
	A2->X (FF)	!B1	0.01860	0.00100	**0.08362**	0.32940	0.12960	**0.27351**	2.50740	0.60000	**0.82801**
	B1->X (FF)	(A1 * !A2)	0.01860	0.00100	**0.07723**	0.32940	0.12960	**0.28249**	2.50740	0.60000	**0.87851**
	B1->X (FF)	(!A1 * A2)	0.01860	0.00100	**0.06929**	0.32940	0.12960	**0.26838**	2.50740	0.60000	**0.85113**
	B1->X (FF)	(!A1 * !A2)	0.01860	0.00100	**0.05677**	0.32940	0.12960	**0.24741**	2.50740	0.60000	**0.80283**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.00879**	0.32940	0.06480	**0.01018**	2.50740	0.30000	**0.02699**
	A2	0.01860	0.00100	**0.01065**	0.32940	0.06480	**0.01151**	2.50740	0.30000	**0.02720**
	B1	0.01860	0.00100	**0.00746**	0.32940	0.06480	**0.00931**	2.50740	0.30000	**0.02897**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.01405**	0.32940	0.12960	**0.01559**	2.50740	0.60000	**0.03328**
	A2	0.01860	0.00100	**0.01614**	0.32940	0.12960	**0.01720**	2.50740	0.60000	**0.03304**
	B1	0.01860	0.00100	**0.01250**	0.32940	0.12960	**0.01474**	2.50740	0.60000	**0.03475**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	0.01860	0.00100	**0.01031**	0.32940	0.06480	**0.01126**	2.50740	0.30000	**0.02764**
	A2	0.01860	0.00100	**0.01028**	0.32940	0.06480	**0.01120**	2.50740	0.30000	**0.02742**
	B1	0.01860	0.00100	**0.00772**	0.32940	0.06480	**0.01000**	2.50740	0.30000	**0.02866**
sg13g2_a21o_2	A1	0.01860	0.00100	**0.01558**	0.32940	0.12960	**0.01626**	2.50740	0.60000	**0.03368**
	A2	0.01860	0.00100	**0.01574**	0.32940	0.12960	**0.01645**	2.50740	0.60000	**0.03405**
	B1	0.01860	0.00100	**0.01301**	0.32940	0.12960	**0.01499**	2.50740	0.60000	**0.03475**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.00879**	0.32940	0.06480	**0.01018**	2.50740	0.30000	**0.02699**
	A2	!B1	0.01860	0.00100	**0.01065**	0.32940	0.06480	**0.01151**	2.50740	0.30000	**0.02720**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00939**	0.32940	0.06480	**0.01113**	2.50740	0.30000	**0.03018**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00756**	0.32940	0.06480	**0.00920**	2.50740	0.30000	**0.02793**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00746**	0.32940	0.06480	**0.00931**	2.50740	0.30000	**0.02897**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.01405**	0.32940	0.12960	**0.01559**	2.50740	0.60000	**0.03328**
	A2	!B1	0.01860	0.00100	**0.01614**	0.32940	0.12960	**0.01720**	2.50740	0.60000	**0.03304**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01473**	0.32940	0.12960	**0.01678**	2.50740	0.60000	**0.03663**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01260**	0.32940	0.12960	**0.01466**	2.50740	0.60000	**0.03347**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01250**	0.32940	0.12960	**0.01474**	2.50740	0.60000	**0.03475**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a21o_1	A1	!B1	0.01860	0.00100	**0.01031**	0.32940	0.06480	**0.01126**	2.50740	0.30000	**0.02764**
	A2	!B1	0.01860	0.00100	**0.01028**	0.32940	0.06480	**0.01120**	2.50740	0.30000	**0.02742**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00788**	0.32940	0.06480	**0.00986**	2.50740	0.30000	**0.02804**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00772**	0.32940	0.06480	**0.01000**	2.50740	0.30000	**0.02866**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.00771**	0.32940	0.06480	**0.01014**	2.50740	0.30000	**0.02950**
sg13g2_a21o_2	A1	!B1	0.01860	0.00100	**0.01558**	0.32940	0.12960	**0.01626**	2.50740	0.60000	**0.03368**
	A2	!B1	0.01860	0.00100	**0.01574**	0.32940	0.12960	**0.01645**	2.50740	0.60000	**0.03405**
	B1	(A1 * !A2)	0.01860	0.00100	**0.01330**	0.32940	0.12960	**0.01497**	2.50740	0.60000	**0.03450**
	B1	(!A1 * A2)	0.01860	0.00100	**0.01301**	0.32940	0.12960	**0.01499**	2.50740	0.60000	**0.03475**
	B1	(!A1 * !A2)	0.01860	0.00100	**0.01266**	0.32940	0.12960	**0.01521**	2.50740	0.60000	**0.03671**

A221OI

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a221oi_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A1	A2	B1	B2	C1	Y
sg13g2_a221oi_1	0.00319	0.00326	0.00313	0.00327	0.00303	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a221oi_1	238.70000	469.26300	622.81200

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (FR)	0.01860	0.00100	**0.07009**	0.32940	0.06480	**0.50329**	2.50740	0.30000	**2.28558**
	A2->Y (FR)	0.01860	0.00100	**0.07805**	0.32940	0.06480	**0.51096**	2.50740	0.30000	**2.29085**
	B1->Y (FR)	0.01860	0.00100	**0.06273**	0.32940	0.06480	**0.51765**	2.50740	0.30000	**2.49013**
	B2->Y (FR)	0.01860	0.00100	**0.07067**	0.32940	0.06480	**0.52512**	2.50740	0.30000	**2.49715**
	C1->Y (FR)	0.01860	0.00100	**0.04076**	0.32940	0.06480	**0.46366**	2.50740	0.30000	**2.38323**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1->Y (RF)	0.01860	0.00100	**0.03859**	0.32940	0.06480	**0.37366**	2.50740	0.30000	**1.91306**
	A2->Y (RF)	0.01860	0.00100	**0.04080**	0.32940	0.06480	**0.34742**	2.50740	0.30000	**1.73116**
	B1->Y (RF)	0.01860	0.00100	**0.03428**	0.32940	0.06480	**0.36417**	2.50740	0.30000	**1.89915**
	B2->Y (RF)	0.01860	0.00100	**0.03674**	0.32940	0.06480	**0.33827**	2.50740	0.30000	**1.71877**
	C1->Y (RF)	0.01860	0.00100	**0.01908**	0.32940	0.06480	**0.26443**	2.50740	0.30000	**1.45660**

Delay(ns) to Y rising (conditional):

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

sg13g2_a221oi_1	**A1->Y (FR)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.07009**	0.32940	0.06480	**0.50329**	2.50740	0.30000	**2.28558**
	A1->Y (FR)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.06051**	0.32940	0.06480	**0.49442**	2.50740	0.30000	**2.27892**
	A1->Y (FR)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.05512**	0.32940	0.06480	**0.44093**	2.50740	0.30000	**2.07497**
	A2->Y (FR)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.07805**	0.32940	0.06480	**0.51096**	2.50740	0.30000	**2.29085**
	A2->Y (FR)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.06869**	0.32940	0.06480	**0.50221**	2.50740	0.30000	**2.28427**
	A2->Y (FR)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.06180**	0.32940	0.06480	**0.44705**	2.50740	0.30000	**2.07857**
	B1->Y (FR)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.06273**	0.32940	0.06480	**0.51765**	2.50740	0.30000	**2.49013**
	B1->Y (FR)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.05309**	0.32940	0.06480	**0.50829**	2.50740	0.30000	**2.48288**
	B1->Y (FR)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.04506**	0.32940	0.06480	**0.44140**	2.50740	0.30000	**2.18669**
	B2->Y (FR)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.07067**	0.32940	0.06480	**0.52512**	2.50740	0.30000	**2.49715**
	B2->Y (FR)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.06128**	0.32940	0.06480	**0.51580**	2.50740	0.30000	**2.49065**
	B2->Y (FR)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.05165**	0.32940	0.06480	**0.44739**	2.50740	0.30000	**2.19156**
	C1->Y (FR)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.03897**	0.32940	0.06480	**0.46247**	2.50740	0.30000	**2.38320**
	C1->Y (FR)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.03123**	0.32940	0.06480	**0.45454**	2.50740	0.30000	**2.37660**
	C1->Y (FR)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.04076**	0.32940	0.06480	**0.46366**	2.50740	0.30000	**2.38323**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.03302**	0.32940	0.06480	**0.45690**	2.50740	0.30000	**2.38135**
	C1->Y (FR)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.02809**	0.32940	0.06480	**0.39602**	2.50740	0.30000	**2.10160**

Delay(ns) to Y falling (conditional):

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

sg13g2_a221oi_1	**A1->Y (RF)**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.03770**	0.32940	0.06480	**0.37296**	2.50740	0.30000	**1.91165**
	A1->Y (RF)	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.03701**	0.32940	0.06480	**0.37097**	2.50740	0.30000	**1.90840**
	A1->Y (RF)	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.03859**	0.32940	0.06480	**0.37366**	2.50740	0.30000	**1.91306**
	A2->Y (RF)	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.03989**	0.32940	0.06480	**0.34667**	2.50740	0.30000	**1.73050**
	A2->Y (RF)	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.03918**	0.32940	0.06480	**0.34492**	2.50740	0.30000	**1.72727**
	A2->Y (RF)	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.04080**	0.32940	0.06480	**0.34742**	2.50740	0.30000	**1.73116**
	B1->Y (RF)	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.03428**	0.32940	0.06480	**0.36417**	2.50740	0.30000	**1.89915**
	B1->Y (RF)	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.03375**	0.32940	0.06480	**0.36224**	2.50740	0.30000	**1.89601**
	B1->Y (RF)	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.03343**	0.32940	0.06480	**0.36192**	2.50740	0.30000	**1.89655**
	B2->Y (RF)	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.03674**	0.32940	0.06480	**0.33827**	2.50740	0.30000	**1.71877**
	B2->Y (RF)	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.03623**	0.32940	0.06480	**0.33659**	2.50740	0.30000	**1.71567**
	B2->Y (RF)	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.03593**	0.32940	0.06480	**0.33626**	2.50740	0.30000	**1.71640**
	C1->Y (RF)	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.01899**	0.32940	0.06480	**0.26444**	2.50740	0.30000	**1.45640**
	C1->Y (RF)	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.01875**	0.32940	0.06480	**0.26346**	2.50740	0.30000	**1.45383**
	C1->Y (RF)	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.01908**	0.32940	0.06480	**0.26443**	2.50740	0.30000	**1.45660**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.01884**	0.32940	0.06480	**0.26346**	2.50740	0.30000	**1.45378**
	C1->Y (RF)	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.01866**	0.32940	0.06480	**0.26328**	2.50740	0.30000	**1.45468**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.01005**	0.32940	0.06480	**0.01003**	2.50740	0.30000	**0.01381**
	A2	0.01860	0.00100	**0.01018**	0.32940	0.06480	**0.01019**	2.50740	0.30000	**0.01399**
	B1	0.01860	0.00100	**0.00767**	0.32940	0.06480	**0.00768**	2.50740	0.30000	**0.01139**
	B2	0.01860	0.00100	**0.00750**	0.32940	0.06480	**0.00750**	2.50740	0.30000	**0.01170**
	C1	0.01860	0.00100	**0.00475**	0.32940	0.06480	**0.00536**	2.50740	0.30000	**0.01097**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a221oi_1	A1	0.01860	0.00100	**0.00578**	0.32940	0.06480	**0.00571**	2.50740	0.30000	**0.01028**
	A2	0.01860	0.00100	**0.00786**	0.32940	0.06480	**0.00771**	2.50740	0.30000	**0.01193**
	B1	0.01860	0.00100	**0.00373**	0.32940	0.06480	**0.00386**	2.50740	0.30000	**0.00878**
	B2	0.01860	0.00100	**0.00589**	0.32940	0.06480	**0.00588**	2.50740	0.30000	**0.01032**
	C1	0.01860	0.00100	**0.00216**	0.32940	0.06480	**0.00287**	2.50740	0.30000	**0.00851**

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

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

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01005**	0.32940	0.06480	**0.01003**	2.50740	0.30000	**0.01381**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00973**	0.32940	0.06480	**0.00971**	2.50740	0.30000	**0.01359**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.01215**	0.32940	0.06480	**0.01221**	2.50740	0.30000	**0.01592**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.01018**	0.32940	0.06480	**0.01019**	2.50740	0.30000	**0.01399**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00995**	0.32940	0.06480	**0.00985**	2.50740	0.30000	**0.01382**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.01234**	0.32940	0.06480	**0.01226**	2.50740	0.30000	**0.01621**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00767**	0.32940	0.06480	**0.00768**	2.50740	0.30000	**0.01139**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.00735**	0.32940	0.06480	**0.00750**	2.50740	0.30000	**0.01117**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00736**	0.32940	0.06480	**0.00752**	2.50740	0.30000	**0.01152**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00775**	0.32940	0.06480	**0.00783**	2.50740	0.30000	**0.01159**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.00751**	0.32940	0.06480	**0.00744**	2.50740	0.30000	**0.01145**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00750**	0.32940	0.06480	**0.00750**	2.50740	0.30000	**0.01170**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00474**	0.32940	0.06480	**0.00528**	2.50740	0.30000	**0.01089**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00443**	0.32940	0.06480	**0.00515**	2.50740	0.30000	**0.01061**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00475**	0.32940	0.06480	**0.00536**	2.50740	0.30000	**0.01097**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00445**	0.32940	0.06480	**0.00514**	2.50740	0.30000	**0.01068**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00444**	0.32940	0.06480	**0.00511**	2.50740	0.30000	**0.01127**

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

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

sg13g2_a221oi_1	**A1**	**(A2 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00790**	0.32940	0.06480	**0.00781**	2.50740	0.30000	**0.01242**
	A1	**(A2 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00578**	0.32940	0.06480	**0.00571**	2.50740	0.30000	**0.01028**
	A1	**(A2 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00470**	0.32940	0.06480	**0.00462**	2.50740	0.30000	**0.00946**
	A2	**(A1 * B1 * !B2 * !C1)**	0.01860	0.00100	**0.00994**	0.32940	0.06480	**0.00977**	2.50740	0.30000	**0.01406**
	A2	**(A1 * !B1 * B2 * !C1)**	0.01860	0.00100	**0.00786**	0.32940	0.06480	**0.00771**	2.50740	0.30000	**0.01193**
	A2	**(A1 * !B1 * !B2 * !C1)**	0.01860	0.00100	**0.00677**	0.32940	0.06480	**0.00657**	2.50740	0.30000	**0.01099**
	B1	**(A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00595**	0.32940	0.06480	**0.00603**	2.50740	0.30000	**0.01071**
	B1	**(!A1 * A2 * B2 * !C1)**	0.01860	0.00100	**0.00384**	0.32940	0.06480	**0.00396**	2.50740	0.30000	**0.00860**
	B1	**(!A1 * !A2 * B2 * !C1)**	0.01860	0.00100	**0.00373**	0.32940	0.06480	**0.00386**	2.50740	0.30000	**0.00878**
	B2	**(A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00811**	0.32940	0.06480	**0.00804**	2.50740	0.30000	**0.01216**
	B2	**(!A1 * A2 * B1 * !C1)**	0.01860	0.00100	**0.00599**	0.32940	0.06480	**0.00600**	2.50740	0.30000	**0.01021**
	B2	**(!A1 * !A2 * B1 * !C1)**	0.01860	0.00100	**0.00589**	0.32940	0.06480	**0.00588**	2.50740	0.30000	**0.01032**
	C1	**(A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00431**	0.32940	0.06480	**0.00506**	2.50740	0.30000	**0.01037**
	C1	**(!A1 * A2 * !B1 * !B2)**	0.01860	0.00100	**0.00220**	0.32940	0.06480	**0.00295**	2.50740	0.30000	**0.00877**
	C1	**(!A1 * !A2 * B1 * !B2)**	0.01860	0.00100	**0.00435**	0.32940	0.06480	**0.00506**	2.50740	0.30000	**0.01024**
	C1	**(!A1 * !A2 * !B1 * B2)**	0.01860	0.00100	**0.00225**	0.32940	0.06480	**0.00295**	2.50740	0.30000	**0.00881**
	C1	**(!A1 * !A2 * !B1 * !B2)**	0.01860	0.00100	**0.00216**	0.32940	0.06480	**0.00287**	2.50740	0.30000	**0.00851**

A22OI

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_a22oi_1	10.84860

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A1	A2	B1	B2	Y
sg13g2_a22oi_1	0.00332	0.00335	0.00325	0.00319	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_a22oi_1	159.67400	355.47200	512.40700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	0.01860	0.00100	**0.03662**	0.32940	0.06480	**0.37263**	2.50740	0.30000	**1.87318**
	A2->Y (FR)	0.01860	0.00100	**0.04161**	0.32940	0.06480	**0.37732**	2.50740	0.30000	**1.87754**
	B1->Y (FR)	0.01860	0.00100	**0.03907**	0.32940	0.06480	**0.40748**	2.50740	0.30000	**2.10894**
	B2->Y (FR)	0.01860	0.00100	**0.03361**	0.32940	0.06480	**0.40027**	2.50740	0.30000	**2.09468**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	0.01860	0.00100	**0.03324**	0.32940	0.06480	**0.36185**	2.50740	0.30000	**1.89554**
	A2->Y (RF)	0.01860	0.00100	**0.03557**	0.32940	0.06480	**0.33586**	2.50740	0.30000	**1.71405**
	B1->Y (RF)	0.01860	0.00100	**0.02880**	0.32940	0.06480	**0.32779**	2.50740	0.30000	**1.70476**
	B2->Y (RF)	0.01860	0.00100	**0.02594**	0.32940	0.06480	**0.35337**	2.50740	0.30000	**1.88497**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (FR)	(A2 * B1)	0.01860	0.00100	**0.03662**	0.32940	0.06480	**0.37263**	2.50740	0.30000	**1.87318**
	A2->Y (FR)	(A1 * B1)	0.01860	0.00100	**0.04161**	0.32940	0.06480	**0.37732**	2.50740	0.30000	**1.87754**
	B1->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.03907**	0.32940	0.06480	**0.40748**	2.50740	0.30000	**2.10894**
	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.03294**	0.32940	0.06480	**0.39942**	2.50740	0.30000	**2.09469**
	B2->Y (FR)	(A1 * !A2)	0.01860	0.00100	**0.03361**	0.32940	0.06480	**0.40027**	2.50740	0.30000	**2.09468**
	B2->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.02758**	0.32940	0.06480	**0.39482**	2.50740	0.30000	**2.09304**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1->Y (RF)	(A2 * B1)	0.01860	0.00100	**0.03324**	0.32940	0.06480	**0.36185**	2.50740	0.30000	**1.89554**
	A2->Y (RF)	(A1 * B1)	0.01860	0.00100	**0.03557**	0.32940	0.06480	**0.33586**	2.50740	0.30000	**1.71405**
	B1->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02880**	0.32940	0.06480	**0.32779**	2.50740	0.30000	**1.70476**
	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02837**	0.32940	0.06480	**0.32606**	2.50740	0.30000	**1.70160**
	B2->Y (RF)	(A1 * !A2)	0.01860	0.00100	**0.02594**	0.32940	0.06480	**0.35337**	2.50740	0.30000	**1.88497**
	B2->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02551**	0.32940	0.06480	**0.35151**	2.50740	0.30000	**1.88219**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00578**	0.32940	0.06480	**0.00591**	2.50740	0.30000	**0.01069**
	A2	0.01860	0.00100	**0.00596**	0.32940	0.06480	**0.00596**	2.50740	0.30000	**0.01086**
	B1	0.01860	0.00100	**0.00350**	0.32940	0.06480	**0.00388**	2.50740	0.30000	**0.00938**
	B2	0.01860	0.00100	**0.00329**	0.32940	0.06480	**0.00378**	2.50740	0.30000	**0.00926**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	0.01860	0.00100	**0.00549**	0.32940	0.06480	**0.00562**	2.50740	0.30000	**0.01085**
	A2	0.01860	0.00100	**0.00756**	0.32940	0.06480	**0.00752**	2.50740	0.30000	**0.01233**
	B1	0.01860	0.00100	**0.00741**	0.32940	0.06480	**0.00772**	2.50740	0.30000	**0.01235**
	B2	0.01860	0.00100	**0.00526**	0.32940	0.06480	**0.00582**	2.50740	0.30000	**0.01087**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00578**	0.32940	0.06480	**0.00591**	2.50740	0.30000	**0.01069**
	A2	(A1 * B1)	0.01860	0.00100	**0.00596**	0.32940	0.06480	**0.00596**	2.50740	0.30000	**0.01086**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00350**	0.32940	0.06480	**0.00388**	2.50740	0.30000	**0.00938**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00330**	0.32940	0.06480	**0.00374**	2.50740	0.30000	**0.00930**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00329**	0.32940	0.06480	**0.00378**	2.50740	0.30000	**0.00926**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00302**	0.32940	0.06480	**0.00366**	2.50740	0.30000	**0.00918**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_a22oi_1	A1	(A2 * B1)	0.01860	0.00100	**0.00549**	0.32940	0.06480	**0.00562**	2.50740	0.30000	**0.01085**
	A2	(A1 * B1)	0.01860	0.00100	**0.00756**	0.32940	0.06480	**0.00752**	2.50740	0.30000	**0.01233**
	B1	(A1 * !A2)	0.01860	0.00100	**0.00741**	0.32940	0.06480	**0.00772**	2.50740	0.30000	**0.01235**
	B1	(!A1 * A2)	0.01860	0.00100	**0.00529**	0.32940	0.06480	**0.00557**	2.50740	0.30000	**0.01029**
	B2	(A1 * !A2)	0.01860	0.00100	**0.00526**	0.32940	0.06480	**0.00582**	2.50740	0.30000	**0.01087**
	B2	(!A1 * A2)	0.01860	0.00100	**0.00314**	0.32940	0.06480	**0.00374**	2.50740	0.30000	**0.00892**

AND2x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and2_1	9.07200
sg13g2_and2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_and2_1	0.00273	0.00274	0.30000
sg13g2_and2_2	0.00272	0.00275	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and2_1	218.16800	284.75100	341.22400
sg13g2_and2_2	376.01400	422.92200	475.44000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (RR)	0.01860	0.00100	**0.04720**	0.32940	0.06480	**0.23308**	2.50740	0.30000	**0.82480**
	B->X (RR)	0.01860	0.00100	**0.04997**	0.32940	0.06480	**0.23050**	2.50740	0.30000	**0.81029**
sg13g2_and2_2	A->X (RR)	0.01860	0.00100	**0.05848**	0.32940	0.12960	**0.26854**	2.50740	0.60000	**0.89428**
	B->X (RR)	0.01860	0.00100	**0.06102**	0.32940	0.12960	**0.26185**	2.50740	0.60000	**0.87370**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A->X (FF)	0.01860	0.00100	**0.03954**	0.32940	0.06480	**0.20215**	2.50740	0.30000	**0.67824**
	B->X (FF)	0.01860	0.00100	**0.04300**	0.32940	0.06480	**0.21405**	2.50740	0.30000	**0.70852**
sg13g2_and2_2	A->X (FF)	0.01860	0.00100	**0.04840**	0.32940	0.12960	**0.23509**	2.50740	0.60000	**0.75132**
	B->X (FF)	0.01860	0.00100	**0.05166**	0.32940	0.12960	**0.24503**	2.50740	0.60000	**0.77921**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.00797**	0.32940	0.06480	**0.00972**	2.50740	0.30000	**0.02680**
	B	0.01860	0.00100	**0.00983**	0.32940	0.06480	**0.01092**	2.50740	0.30000	**0.02725**
sg13g2_and2_2	A	0.01860	0.00100	**0.01317**	0.32940	0.12960	**0.01478**	2.50740	0.60000	**0.03061**
	B	0.01860	0.00100	**0.01499**	0.32940	0.12960	**0.01620**	2.50740	0.60000	**0.03148**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and2_1	A	0.01860	0.00100	**0.00688**	0.32940	0.06480	**0.00883**	2.50740	0.30000	**0.02632**
	B	0.01860	0.00100	**0.00702**	0.32940	0.06480	**0.00907**	2.50740	0.30000	**0.02605**
sg13g2_and2_2	A	0.01860	0.00100	**0.01159**	0.32940	0.12960	**0.01382**	2.50740	0.60000	**0.03092**
	B	0.01860	0.00100	**0.01168**	0.32940	0.12960	**0.01397**	2.50740	0.60000	**0.03105**

AND3x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and3_1	12.70080
sg13g2_and3_2	12.70080

Pin Capacitance Information

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

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and3_1	220.80700	329.14200	472.32900
sg13g2_and3_2	378.68700	477.15700	575.86800

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (RR)	0.01860	0.00100	**0.06273**	0.32940	0.06480	**0.26227**	2.50740	0.30000	**0.89599**
	B->X (RR)	0.01860	0.00100	**0.06915**	0.32940	0.06480	**0.26299**	2.50740	0.30000	**0.88918**
	C->X (RR)	0.01860	0.00100	**0.07158**	0.32940	0.06480	**0.25648**	2.50740	0.30000	**0.85321**
sg13g2_and3_2	A->X (RR)	0.01860	0.00100	**0.07893**	0.32940	0.12960	**0.30427**	2.50740	0.60000	**0.97761**
	B->X (RR)	0.01860	0.00100	**0.08519**	0.32940	0.12960	**0.30187**	2.50740	0.60000	**0.96266**
	C->X (RR)	0.01860	0.00100	**0.08764**	0.32940	0.12960	**0.29167**	2.50740	0.60000	**0.91930**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A->X (FF)	0.01860	0.00100	**0.04202**	0.32940	0.06480	**0.20862**	2.50740	0.30000	**0.67329**
	B->X (FF)	0.01860	0.00100	**0.04566**	0.32940	0.06480	**0.21985**	2.50740	0.30000	**0.70321**
	C->X (FF)	0.01860	0.00100	**0.04793**	0.32940	0.06480	**0.22880**	2.50740	0.30000	**0.73566**
sg13g2_and3_2	A->X (FF)	0.01860	0.00100	**0.05056**	0.32940	0.12960	**0.24085**	2.50740	0.60000	**0.74776**
	B->X (FF)	0.01860	0.00100	**0.05403**	0.32940	0.12960	**0.25007**	2.50740	0.60000	**0.77443**
	C->X (FF)	0.01860	0.00100	**0.05642**	0.32940	0.12960	**0.25785**	2.50740	0.60000	**0.80211**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.00914**	0.32940	0.06480	**0.01056**	2.50740	0.30000	**0.02643**
	B	0.01860	0.00100	**0.01096**	0.32940	0.06480	**0.01171**	2.50740	0.30000	**0.02701**
	C	0.01860	0.00100	**0.01271**	0.32940	0.06480	**0.01313**	2.50740	0.30000	**0.02848**
sg13g2_and3_2	A	0.01860	0.00100	**0.01487**	0.32940	0.12960	**0.01554**	2.50740	0.60000	**0.03065**
	B	0.01860	0.00100	**0.01659**	0.32940	0.12960	**0.01689**	2.50740	0.60000	**0.03101**
	C	0.01860	0.00100	**0.01828**	0.32940	0.12960	**0.01831**	2.50740	0.60000	**0.03253**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and3_1	A	0.01860	0.00100	**0.00706**	0.32940	0.06480	**0.00875**	2.50740	0.30000	**0.02480**
	B	0.01860	0.00100	**0.00728**	0.32940	0.06480	**0.00896**	2.50740	0.30000	**0.02474**
	C	0.01860	0.00100	**0.00741**	0.32940	0.06480	**0.00916**	2.50740	0.30000	**0.02562**
sg13g2_and3_2	A	0.01860	0.00100	**0.01174**	0.32940	0.12960	**0.01369**	2.50740	0.60000	**0.02899**
	B	0.01860	0.00100	**0.01196**	0.32940	0.12960	**0.01379**	2.50740	0.60000	**0.02925**
	C	0.01860	0.00100	**0.01208**	0.32940	0.12960	**0.01394**	2.50740	0.60000	**0.02993**

AND4x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_and4_1	14.51520
sg13g2_and4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_and4_1	0.00256	0.00270	0.00269	0.00270	0.30000
sg13g2_and4_2	0.00255	0.00269	0.00269	0.00270	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_and4_1	223.52800	362.27200	603.45000
sg13g2_and4_2	381.38100	515.19900	682.49000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (RR)	0.01860	0.00100	**0.07835**	0.32940	0.06480	**0.28959**	2.50740	0.30000	**0.95731**
	B->X (RR)	0.01860	0.00100	**0.08836**	0.32940	0.06480	**0.29330**	2.50740	0.30000	**0.95758**
	C->X (RR)	0.01860	0.00100	**0.09404**	0.32940	0.06480	**0.29055**	2.50740	0.30000	**0.92943**
	D->X (RR)	0.01860	0.00100	**0.09658**	0.32940	0.06480	**0.28589**	2.50740	0.30000	**0.89179**
sg13g2_and4_2	A->X (RR)	0.01860	0.00100	**0.09947**	0.32940	0.12960	**0.33710**	2.50740	0.60000	**1.04448**
	B->X (RR)	0.01860	0.00100	**0.10926**	0.32940	0.12960	**0.33828**	2.50740	0.60000	**1.03460**
	C->X (RR)	0.01860	0.00100	**0.11502**	0.32940	0.12960	**0.33258**	2.50740	0.60000	**0.99940**
	D->X (RR)	0.01860	0.00100	**0.11751**	0.32940	0.12960	**0.32541**	2.50740	0.60000	**0.95481**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A->X (FF)	0.01860	0.00100	**0.04397**	0.32940	0.06480	**0.21235**	2.50740	0.30000	**0.66558**
	B->X (FF)	0.01860	0.00100	**0.04774**	0.32940	0.06480	**0.22307**	2.50740	0.30000	**0.69403**
	C->X (FF)	0.01860	0.00100	**0.05033**	0.32940	0.06480	**0.23151**	2.50740	0.30000	**0.72415**
	D->X (FF)	0.01860	0.00100	**0.05189**	0.32940	0.06480	**0.23911**	2.50740	0.30000	**0.75433**
sg13g2_and4_2	A->X (FF)	0.01860	0.00100	**0.05215**	0.32940	0.12960	**0.24399**	2.50740	0.60000	**0.74221**
	B->X (FF)	0.01860	0.00100	**0.05578**	0.32940	0.12960	**0.25291**	2.50740	0.60000	**0.76744**
	C->X (FF)	0.01860	0.00100	**0.05843**	0.32940	0.12960	**0.26060**	2.50740	0.60000	**0.79272**
	D->X (FF)	0.01860	0.00100	**0.06016**	0.32940	0.12960	**0.26698**	2.50740	0.60000	**0.81845**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.01002**	0.32940	0.06480	**0.01111**	2.50740	0.30000	**0.02578**
	B	0.01860	0.00100	**0.01195**	0.32940	0.06480	**0.01240**	2.50740	0.30000	**0.02651**
	C	0.01860	0.00100	**0.01362**	0.32940	0.06480	**0.01384**	2.50740	0.30000	**0.02789**
	D	0.01860	0.00100	**0.01529**	0.32940	0.06480	**0.01543**	2.50740	0.30000	**0.02971**
sg13g2_and4_2	A	0.01860	0.00100	**0.01619**	0.32940	0.12960	**0.01607**	2.50740	0.60000	**0.03031**
	B	0.01860	0.00100	**0.01816**	0.32940	0.12960	**0.01755**	2.50740	0.60000	**0.03075**
	C	0.01860	0.00100	**0.01985**	0.32940	0.12960	**0.01909**	2.50740	0.60000	**0.03192**
	D	0.01860	0.00100	**0.02150**	0.32940	0.12960	**0.02062**	2.50740	0.60000	**0.03383**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_and4_1	A	0.01860	0.00100	**0.00745**	0.32940	0.06480	**0.00901**	2.50740	0.30000	**0.02405**
	B	0.01860	0.00100	**0.00757**	0.32940	0.06480	**0.00904**	2.50740	0.30000	**0.02377**
	C	0.01860	0.00100	**0.00779**	0.32940	0.06480	**0.00915**	2.50740	0.30000	**0.02467**
	D	0.01860	0.00100	**0.00795**	0.32940	0.06480	**0.00940**	2.50740	0.30000	**0.02547**
sg13g2_and4_2	A	0.01860	0.00100	**0.01218**	0.32940	0.12960	**0.01397**	2.50740	0.60000	**0.02897**
	B	0.01860	0.00100	**0.01232**	0.32940	0.12960	**0.01397**	2.50740	0.60000	**0.02899**
	C	0.01860	0.00100	**0.01256**	0.32940	0.12960	**0.01409**	2.50740	0.60000	**0.02899**
	D	0.01860	0.00100	**0.01272**	0.32940	0.12960	**0.01422**	2.50740	0.60000	**0.02992**

ANTENNANP

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	0.00105

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_antennanp	5.22711	5.22715	5.22720

Passive Power Information

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**-0.00030**	0.32940	**-0.00030**	2.50740	**-0.00030**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_antennanp	0.01860	**0.00030**	0.32940	**0.00030**	2.50740	**0.00030**

BUFx

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_1	7.25760
sg13g2_buf_16	45.36000
sg13g2_buf_2	9.07200
sg13g2_buf_4	14.51520
sg13g2_buf_8	23.58720

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_buf_1	0.00245	0.30000
sg13g2_buf_16	0.01841	4.80000
sg13g2_buf_2	0.00282	0.60000
sg13g2_buf_4	0.00399	1.20000
sg13g2_buf_8	0.00925	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_buf_1	190.68500	203.40500	216.12500
sg13g2_buf_16	2211.69000	2605.75000	2999.82000
sg13g2_buf_2	292.08300	338.85300	385.62200
sg13g2_buf_4	499.66000	620.30900	740.95800
sg13g2_buf_8	1105.84000	1302.88000	1499.91000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (RR)**	0.01860	0.00100	**0.03575**	0.32940	0.06480	**0.21504**	2.50740	0.30000	**0.79205**
sg13g2_buf_16	**A->X (RR)**	0.01860	0.00100	**0.04107**	0.32940	1.03680	**0.24375**	2.50740	4.80000	**0.85436**
sg13g2_buf_2	**A->X (RR)**	0.01860	0.00100	**0.04054**	0.32940	0.12960	**0.23830**	2.50740	0.60000	**0.84393**
sg13g2_buf_4	**A->X (RR)**	0.01860	0.00100	**0.05087**	0.32940	0.25920	**0.27228**	2.50740	1.20000	**0.95731**
sg13g2_buf_8	**A->X (RR)**	0.01860	0.00100	**0.04074**	0.32940	0.51840	**0.24278**	2.50740	2.40000	**0.85193**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A->X (FF)**	0.01860	0.00100	**0.03712**	0.32940	0.06480	**0.19616**	2.50740	0.30000	**0.66567**
sg13g2_buf_16	**A->X (FF)**	0.01860	0.00100	**0.04465**	0.32940	1.03680	**0.22998**	2.50740	4.80000	**0.74410**
sg13g2_buf_2	**A->X (FF)**	0.01860	0.00100	**0.04282**	0.32940	0.12960	**0.21955**	2.50740	0.60000	**0.71340**
sg13g2_buf_4	**A->X (FF)**	0.01860	0.00100	**0.04388**	0.32940	0.25920	**0.22465**	2.50740	1.20000	**0.68486**
sg13g2_buf_8	**A->X (FF)**	0.01860	0.00100	**0.04424**	0.32940	0.51840	**0.22950**	2.50740	2.40000	**0.74371**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00695**	0.32940	0.06480	**0.00866**	2.50740	0.30000	**0.02562**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.09247**	0.32940	1.03680	**0.10958**	2.50740	4.80000	**0.24417**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01209**	0.32940	0.12960	**0.01452**	2.50740	0.60000	**0.03358**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02282**	0.32940	0.25920	**0.02591**	2.50740	1.20000	**0.05220**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04643**	0.32940	0.51840	**0.05558**	2.50740	2.40000	**0.12145**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_buf_1	**A**	0.01860	0.00100	**0.00682**	0.32940	0.06480	**0.00905**	2.50740	0.30000	**0.02622**
sg13g2_buf_16	**A**	0.01860	0.00100	**0.08938**	0.32940	1.03680	**0.10987**	2.50740	4.80000	**0.25316**
sg13g2_buf_2	**A**	0.01860	0.00100	**0.01172**	0.32940	0.12960	**0.01457**	2.50740	0.60000	**0.03496**
sg13g2_buf_4	**A**	0.01860	0.00100	**0.02253**	0.32940	0.25920	**0.02719**	2.50740	1.20000	**0.05341**
sg13g2_buf_8	**A**	0.01860	0.00100	**0.04467**	0.32940	0.51840	**0.05541**	2.50740	2.40000	**0.12446**

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	1468.61000	1468.61000	1468.61000
sg13g2_decap_8	2937.24000	2937.24000	2937.24000

DFRBPQx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbpq_1	48.98880
sg13g2_dfrbpq_2	50.80320

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	D	RESET_B	Q
sg13g2_dfrbpq_1	0.00299	0.00151	0.00546	0.30000
sg13g2_dfrbpq_2	0.00300	0.00151	0.00550	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbpq_1	915.63000	1055.38000	1183.27000
sg13g2_dfrbpq_2	1064.38000	1172.93000	1332.02000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.10585**	0.32940	0.06480	**0.29752**	2.50740	0.30000	**0.87705**
sg13g2_dfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.11365**	0.32940	0.12960	**0.31001**	2.50740	0.60000	**0.89016**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.10600**	0.32940	0.06480	**0.27776**	2.50740	0.30000	**0.76952**
	RESET_B->Q (FF)	0.01860	0.00100	**0.14788**	0.32940	0.06480	**0.35266**	2.50740	0.30000	**0.94783**
sg13g2_dfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.11450**	0.32940	0.12960	**0.29175**	2.50740	0.60000	**0.78428**
	RESET_B->Q (FF)	0.01860	0.00100	**0.15560**	0.32940	0.12960	**0.36566**	2.50740	0.60000	**0.96155**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06378**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06058**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08621**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08621**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.18004**
	setup	**CLK (R)**	0.01860	0.01860	**0.07580**	1.26300	1.26300	**0.16460**	2.50740	2.50740	**0.20661**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04157**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.18004**
	setup	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.16460**	2.50740	2.50740	**0.20661**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02201**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.16234**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.16190**	2.50740	2.50740	**0.21546**
sg13g2_dfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02201**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.16234**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.16190**	2.50740	2.50740	**0.21546**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28335**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.27744**
sg13g2_dfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28335**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.27744**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbpq_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbpq_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.07339**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	0.00100	**0.03123**	0.32940	0.06480	**0.03361**	2.50740	0.30000	**0.06139**
sg13g2_dfrbpq_2	**CLK**	0.01860	0.00100	**0.03553**	0.32940	0.12960	**0.03839**	2.50740	0.60000	**0.06600**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	0.00100	**0.03228**	0.32940	0.06480	**0.03529**	2.50740	0.30000	**0.06245**
	RESET_B	0.01860	0.00100	**0.02072**	0.32940	0.06480	**0.02264**	2.50740	0.30000	**0.03525**
sg13g2_dfrbpq_2	**CLK**	0.01860	0.00100	**0.03633**	0.32940	0.12960	**0.04018**	2.50740	0.60000	**0.06729**
	RESET_B	0.01860	0.00100	**0.02469**	0.32940	0.12960	**0.02707**	2.50740	0.60000	**0.03957**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.01313**	0.32940	**0.01507**	2.50740	**0.04175**
sg13g2_dfrbpq_2	0.01860	**0.01320**	0.32940	**0.01515**	2.50740	**0.04182**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.02528**	0.32940	**0.02744**	2.50740	**0.05470**
sg13g2_dfrbpq_2	0.01860	**0.02530**	0.32940	**0.02746**	2.50740	**0.05469**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.01313**	0.32940	**0.01507**	2.50740	**0.04175**
	(D * !RESET_B * !Q)	0.01860	**0.01379**	0.32940	**0.01570**	2.50740	**0.04222**
	(!D * RESET_B * !Q)	0.01860	**0.01287**	0.32940	**0.01478**	2.50740	**0.04145**
	(!D * !RESET_B * !Q)	0.01860	**0.01382**	0.32940	**0.01573**	2.50740	**0.04224**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.01320**	0.32940	**0.01515**	2.50740	**0.04182**
	(D * !RESET_B * !Q)	0.01860	**0.01387**	0.32940	**0.01576**	2.50740	**0.04228**
	(!D * RESET_B * !Q)	0.01860	**0.01295**	0.32940	**0.01485**	2.50740	**0.04151**
	(!D * !RESET_B * !Q)	0.01860	**0.01391**	0.32940	**0.01579**	2.50740	**0.04231**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(D * RESET_B * Q)	0.01860	**0.02569**	0.32940	**0.02787**	2.50740	**0.05528**
	(D * RESET_B * !Q)	0.01860	**0.02528**	0.32940	**0.02744**	2.50740	**0.05470**
	(D * !RESET_B * !Q)	0.01860	**0.01294**	0.32940	**0.01514**	2.50740	**0.04143**
	(!D * RESET_B * Q)	0.01860	**0.04481**	0.32940	**0.04665**	2.50740	**0.07289**
	(!D * RESET_B * !Q)	0.01860	**0.01292**	0.32940	**0.01513**	2.50740	**0.04144**
	(!D * !RESET_B * !Q)	0.01860	**0.01293**	0.32940	**0.01513**	2.50740	**0.04143**
sg13g2_dfrbpq_2	(D * RESET_B * Q)	0.01860	**0.02664**	0.32940	**0.02882**	2.50740	**0.05619**
	(D * RESET_B * !Q)	0.01860	**0.02530**	0.32940	**0.02746**	2.50740	**0.05469**
	(D * !RESET_B * !Q)	0.01860	**0.01298**	0.32940	**0.01518**	2.50740	**0.04155**
	(!D * RESET_B * Q)	0.01860	**0.04989**	0.32940	**0.05164**	2.50740	**0.07793**
	(!D * RESET_B * !Q)	0.01860	**0.01296**	0.32940	**0.01517**	2.50740	**0.04146**
	(!D * !RESET_B * !Q)	0.01860	**0.01299**	0.32940	**0.01517**	2.50740	**0.04155**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00165**	0.32940	**0.00256**	2.50740	**0.01286**
sg13g2_dfrbpq_2	0.01860	**0.00166**	0.32940	**0.00256**	2.50740	**0.01286**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00129**	0.32940	**0.00228**	2.50740	**0.01269**
sg13g2_dfrbpq_2	0.01860	**0.00130**	0.32940	**0.00229**	2.50740	**0.01270**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00165**	0.32940	**0.00256**	2.50740	**0.01286**
	(!CLK * RESET_B)	0.01860	**0.01439**	0.32940	**0.01518**	2.50740	**0.02680**
	(!CLK * !RESET_B)	0.01860	**-0.00006**	0.32940	**-0.00006**	2.50740	**-0.00006**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00166**	0.32940	**0.00256**	2.50740	**0.01286**
	(!CLK * RESET_B)	0.01860	**0.01436**	0.32940	**0.01516**	2.50740	**0.02678**
	(!CLK * !RESET_B)	0.01860	**-0.00006**	0.32940	**-0.00005**	2.50740	**-0.00005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**CLK**	0.01860	**0.00129**	0.32940	**0.00228**	2.50740	**0.01269**
	(!CLK * RESET_B)	0.01860	**0.01084**	0.32940	**0.01169**	2.50740	**0.02369**
	(!CLK * !RESET_B)	0.01860	**0.00031**	0.32940	**0.00031**	2.50740	**0.00031**
sg13g2_dfrbpq_2	**CLK**	0.01860	**0.00130**	0.32940	**0.00229**	2.50740	**0.01270**
	(!CLK * RESET_B)	0.01860	**0.01086**	0.32940	**0.01170**	2.50740	**0.02371**
	(!CLK * !RESET_B)	0.01860	**0.00030**	0.32940	**0.00030**	2.50740	**0.00031**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.00407**	0.32940	**0.00438**	2.50740	**0.01394**
sg13g2_dfrbpq_2	0.01860	**0.00411**	0.32940	**0.00442**	2.50740	**0.01398**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	0.01860	**0.01081**	0.32940	**0.01117**	2.50740	**0.02603**
sg13g2_dfrbpq_2	0.01860	**0.01079**	0.32940	**0.01117**	2.50740	**0.02602**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	**(CLK * D * !Q)**	0.01860	**0.00407**	0.32940	**0.00438**	2.50740	**0.01394**
	(CLK * !D * !Q)	0.01860	**0.00091**	0.32940	**0.00091**	2.50740	**0.00091**
	(!CLK * D * !Q)	0.01860	**0.01697**	0.32940	**0.01733**	2.50740	**0.03159**
	(!CLK * !D * !Q)	0.01860	**0.00100**	0.32940	**0.00099**	2.50740	**0.00099**
sg13g2_dfrbpq_2	**(CLK * D * !Q)**	0.01860	**0.00411**	0.32940	**0.00442**	2.50740	**0.01398**
	(CLK * !D * !Q)	0.01860	**0.00095**	0.32940	**0.00095**	2.50740	**0.00095**
	(!CLK * D * !Q)	0.01860	**0.01703**	0.32940	**0.01733**	2.50740	**0.03145**
	(!CLK * !D * !Q)	0.01860	**0.00103**	0.32940	**0.00102**	2.50740	**0.00103**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbpq_1	(CLK * D * !Q)	0.01860	**0.03148**	0.32940	**0.03316**	2.50740	**0.06113**
	(CLK * !D * !Q)	0.01860	**-0.00091**	0.32940	**-0.00091**	2.50740	**-0.00091**
	(!CLK * D * !Q)	0.01860	**0.01081**	0.32940	**0.01117**	2.50740	**0.02603**
	(!CLK * !D * !Q)	0.01860	**-0.00100**	0.32940	**-0.00099**	2.50740	**-0.00099**
sg13g2_dfrbpq_2	(CLK * D * !Q)	0.01860	**0.03545**	0.32940	**0.03711**	2.50740	**0.06505**
	(CLK * !D * !Q)	0.01860	**-0.00095**	0.32940	**-0.00095**	2.50740	**-0.00095**
	(!CLK * D * !Q)	0.01860	**0.01079**	0.32940	**0.01117**	2.50740	**0.02602**
	(!CLK * !D * !Q)	0.01860	**-0.00103**	0.32940	**-0.00102**	2.50740	**-0.00103**

DFRBPx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dfrbp_1	52.61760
sg13g2_dfrbp_2	54.43200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CLK	D	RESET_B	Q	Q_N
sg13g2_dfrbp_1	0.00302	0.00165	0.00552	0.30000	0.30000
sg13g2_dfrbp_2	0.00303	0.00166	0.00557	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dfrbp_1	994.66600	1160.68000	1302.46000
sg13g2_dfrbp_2	1222.45000	1383.55000	1515.49000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.12730**	0.32940	0.06480	**0.31482**	2.50740	0.30000	**0.90093**
sg13g2_dfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.16240**	0.32940	0.12960	**0.34747**	2.50740	0.60000	**0.94175**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.11867**	0.32940	0.06480	**0.28834**	2.50740	0.30000	**0.78178**
	RESET_B->Q (FF)	0.01860	0.00100	**0.16248**	0.32940	0.06480	**0.36448**	2.50740	0.30000	**0.96188**
sg13g2_dfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.14479**	0.32940	0.12960	**0.31538**	2.50740	0.60000	**0.81351**
	RESET_B->Q (FF)	0.01860	0.00100	**0.18878**	0.32940	0.12960	**0.39150**	2.50740	0.60000	**0.99360**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RR)**	0.01860	0.00100	**0.09275**	0.32940	0.06480	**0.29842**	2.50740	0.30000	**0.85872**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.13690**	0.32940	0.06480	**0.37292**	2.50740	0.30000	**1.03857**
sg13g2_dfrbp_2	**CLK->Q_N (RR)**	0.01860	0.00100	**0.09642**	0.32940	0.12960	**0.30962**	2.50740	0.60000	**0.87196**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.14145**	0.32940	0.12960	**0.38439**	2.50740	0.60000	**1.05155**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK->Q_N (RF)**	0.01860	0.00100	**0.09871**	0.32940	0.06480	**0.30466**	2.50740	0.30000	**0.83285**
sg13g2_dfrbp_2	**CLK->Q_N (RF)**	0.01860	0.00100	**0.10677**	0.32940	0.12960	**0.32212**	2.50740	0.60000	**0.85278**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08942**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08621**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08621**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03912**	1.26300	1.26300	**-0.13762**	2.50740	2.50740	**-0.17709**
	setup	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.16460**	2.50740	2.50740	**0.20661**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03912**	1.26300	1.26300	**-0.13492**	2.50740	2.50740	**-0.17709**
	setup	**CLK (R)**	0.01860	0.01860	**0.07336**	1.26300	1.26300	**0.16460**	2.50740	2.50740	**0.20661**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02201**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.16529**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.16190**	2.50740	2.50740	**0.21546**
sg13g2_dfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02201**	1.26300	1.26300	**-0.11063**	2.50740	2.50740	**-0.16234**
	setup	**CLK (R)**	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.16190**	2.50740	2.50740	**0.21546**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28335**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.27744**
sg13g2_dfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28335**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.28040**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dfrbp_1	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_dfrbp_2	**min_pulse_width**	**RESET_B** ()	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03780**	0.32940	0.06480	**0.09601**	2.50740	0.30000	**0.32837**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.04790**	0.32940	0.12960	**0.16224**	2.50740	0.60000	**0.59950**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03854**	0.32940	0.06480	**0.09743**	2.50740	0.30000	**0.32910**
	RESET_B	0.01860	0.00100	**0.02735**	0.32940	0.06480	**0.08481**	2.50740	0.30000	**0.30206**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.04800**	0.32940	0.12960	**0.16388**	2.50740	0.60000	**0.59995**
	RESET_B	0.01860	0.00100	**0.03685**	0.32940	0.12960	**0.15101**	2.50740	0.60000	**0.57295**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03855**	0.32940	0.06480	**0.09749**	2.50740	0.30000	**0.32938**
	RESET_B	0.01860	0.00100	**0.02731**	0.32940	0.06480	**0.08493**	2.50740	0.30000	**0.30260**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.04803**	0.32940	0.12960	**0.16382**	2.50740	0.60000	**0.60052**
	RESET_B	0.01860	0.00100	**0.03686**	0.32940	0.12960	**0.15145**	2.50740	0.60000	**0.57376**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	0.00100	**0.03780**	0.32940	0.06480	**0.09603**	2.50740	0.30000	**0.32794**
sg13g2_dfrbp_2	**CLK**	0.01860	0.00100	**0.04794**	0.32940	0.12960	**0.16229**	2.50740	0.60000	**0.59856**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.01315**	0.32940	**0.01508**	2.50740	**0.04175**
sg13g2_dfrbp_2	0.01860	**0.01325**	0.32940	**0.01518**	2.50740	**0.04180**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.02491**	0.32940	**0.02708**	2.50740	**0.05449**
sg13g2_dfrbp_2	0.01860	**0.02510**	0.32940	**0.02724**	2.50740	**0.05463**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.01315**	0.32940	**0.01508**	2.50740	**0.04175**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01382**	0.32940	**0.01569**	2.50740	**0.04221**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01287**	0.32940	**0.01479**	2.50740	**0.04144**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01385**	0.32940	**0.01572**	2.50740	**0.04224**
sg13g2_dfrbp_2	**(D * RESET_B * Q * !Q_N)**	0.01860	**0.01325**	0.32940	**0.01518**	2.50740	**0.04180**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01390**	0.32940	**0.01577**	2.50740	**0.04227**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01296**	0.32940	**0.01485**	2.50740	**0.04142**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01393**	0.32940	**0.01580**	2.50740	**0.04230**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(D * RESET_B * Q * !Q_N)	0.01860	**0.02491**	0.32940	**0.02708**	2.50740	**0.05449**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02529**	0.32940	**0.02744**	2.50740	**0.05469**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01295**	0.32940	**0.01514**	2.50740	**0.04143**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.04978**	0.32940	**0.05130**	2.50740	**0.07760**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01293**	0.32940	**0.01513**	2.50740	**0.04153**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01296**	0.32940	**0.01513**	2.50740	**0.04143**
sg13g2_dfrbp_2	(D * RESET_B * Q * !Q_N)	0.01860	**0.02510**	0.32940	**0.02724**	2.50740	**0.05463**
	(D * RESET_B * !Q * Q_N)	0.01860	**0.02531**	0.32940	**0.02747**	2.50740	**0.05468**
	(D * !RESET_B * !Q * Q_N)	0.01860	**0.01301**	0.32940	**0.01518**	2.50740	**0.04146**
	(!D * RESET_B * Q * !Q_N)	0.01860	**0.06772**	0.32940	**0.06107**	2.50740	**0.08738**
	(!D * RESET_B * !Q * Q_N)	0.01860	**0.01299**	0.32940	**0.01517**	2.50740	**0.04154**
	(!D * !RESET_B * !Q * Q_N)	0.01860	**0.01302**	0.32940	**0.01518**	2.50740	**0.04145**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00165**	0.32940	**0.00256**	2.50740	**0.01286**
sg13g2_dfrbp_2	0.01860	**0.00166**	0.32940	**0.00256**	2.50740	**0.01286**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00129**	0.32940	**0.00228**	2.50740	**0.01269**
sg13g2_dfrbp_2	0.01860	**0.00130**	0.32940	**0.00229**	2.50740	**0.01270**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00165**	0.32940	**0.00256**	2.50740	**0.01286**
	(!CLK * RESET_B)	0.01860	**0.01438**	0.32940	**0.01518**	2.50740	**0.02680**
	(!CLK * !RESET_B)	0.01860	**-0.00006**	0.32940	**-0.00006**	2.50740	**-0.00006**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00166**	0.32940	**0.00256**	2.50740	**0.01286**
	(!CLK * RESET_B)	0.01860	**0.01437**	0.32940	**0.01516**	2.50740	**0.02678**
	(!CLK * !RESET_B)	0.01860	**-0.00006**	0.32940	**-0.00005**	2.50740	**-0.00005**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**CLK**	0.01860	**0.00129**	0.32940	**0.00228**	2.50740	**0.01269**
	(!CLK * RESET_B)	0.01860	**0.01084**	0.32940	**0.01169**	2.50740	**0.02369**
	(!CLK * !RESET_B)	0.01860	**0.00030**	0.32940	**0.00031**	2.50740	**0.00031**
sg13g2_dfrbp_2	**CLK**	0.01860	**0.00130**	0.32940	**0.00229**	2.50740	**0.01270**
	(!CLK * RESET_B)	0.01860	**0.01086**	0.32940	**0.01170**	2.50740	**0.02371**
	(!CLK * !RESET_B)	0.01860	**0.00030**	0.32940	**0.00030**	2.50740	**0.00031**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.00407**	0.32940	**0.00438**	2.50740	**0.01394**
sg13g2_dfrbp_2	0.01860	**0.00411**	0.32940	**0.00443**	2.50740	**0.01399**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	0.01860	**0.01081**	0.32940	**0.01117**	2.50740	**0.02603**
sg13g2_dfrbp_2	0.01860	**0.01079**	0.32940	**0.01116**	2.50740	**0.02602**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	**(CLK * D * !Q * Q_N)**	0.01860	**0.00407**	0.32940	**0.00438**	2.50740	**0.01394**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00091**	0.32940	**0.00091**	2.50740	**0.00091**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01702**	0.32940	**0.01733**	2.50740	**0.03159**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00099**	0.32940	**0.00099**	2.50740	**0.00099**
sg13g2_dfrbp_2	**(CLK * D * !Q * Q_N)**	0.01860	**0.00411**	0.32940	**0.00443**	2.50740	**0.01399**
	(CLK * !D * !Q * Q_N)	0.01860	**0.00096**	0.32940	**0.00095**	2.50740	**0.00096**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01704**	0.32940	**0.01734**	2.50740	**0.03146**
	(!CLK * !D * !Q * Q_N)	0.01860	**0.00104**	0.32940	**0.00103**	2.50740	**0.00104**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dfrbp_1	(CLK * D * !Q * Q_N)	0.01860	**0.03727**	0.32940	**0.03895**	2.50740	**0.06719**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00091**	0.32940	**-0.00091**	2.50740	**-0.00091**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01081**	0.32940	**0.01117**	2.50740	**0.02603**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00099**	0.32940	**-0.00099**	2.50740	**-0.00099**
sg13g2_dfrbp_2	(CLK * D * !Q * Q_N)	0.01860	**0.04699**	0.32940	**0.04872**	2.50740	**0.07716**
	(CLK * !D * !Q * Q_N)	0.01860	**-0.00096**	0.32940	**-0.00095**	2.50740	**-0.00096**
	(!CLK * D * !Q * Q_N)	0.01860	**0.01079**	0.32940	**0.01116**	2.50740	**0.02602**
	(!CLK * !D * !Q * Q_N)	0.01860	**-0.00104**	0.32940	**-0.00103**	2.50740	**-0.00104**

DLHQ

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_dlhq_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	D	GATE	Q
sg13g2_dlhq_1	0.00247	0.00248	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhq_1	679.37100	747.87700	843.23900

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (RR)	0.01860	0.00100	**0.11862**	0.32940	0.06480	**0.29712**	2.50740	0.30000	**0.84860**
	GATE->Q (RR)	0.01860	0.00100	**0.10176**	0.32940	0.06480	**0.28224**	2.50740	0.30000	**0.80433**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D->Q (FF)	0.01860	0.00100	**0.10734**	0.32940	0.06480	**0.26323**	2.50740	0.30000	**0.69739**
	GATE->Q (RF)	0.01860	0.00100	**0.11035**	0.32940	0.06480	**0.27164**	2.50740	0.30000	**0.70678**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.15381**	2.50740	2.50740	**-0.18890**
	setup	GATE (F)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.22727**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	hold	GATE (F)	0.01860	0.01860	**-0.02690**	1.26300	1.26300	**0.01079**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.03179**	1.26300	1.26300	**-0.00270**	2.50740	2.50740	**-0.03542**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhq_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.05417**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01846**	0.32940	0.06480	**0.01888**	2.50740	0.30000	**0.01880**
	GATE	0.01860	0.00100	**0.01588**	0.32940	0.06480	**0.01629**	2.50740	0.30000	**0.01740**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhq_1	D	0.01860	0.00100	**0.01925**	0.32940	0.06480	**0.01975**	2.50740	0.30000	**0.01969**
	GATE	0.01860	0.00100	**0.01726**	0.32940	0.06480	**0.01821**	2.50740	0.30000	**0.01809**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00424**	0.32940	**0.00566**	2.50740	**0.02407**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00441**	0.32940	**0.00613**	2.50740	**0.02444**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00420**	0.32940	**0.00555**	2.50740	**0.02393**
	(!GATE * !Q)	0.01860	**0.00424**	0.32940	**0.00566**	2.50740	**0.02407**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!GATE * Q)	0.01860	**0.00441**	0.32940	**0.00613**	2.50740	**0.02444**
	(!GATE * !Q)	0.01860	**0.00444**	0.32940	**0.00607**	2.50740	**0.02434**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.00973**	0.32940	**0.01148**	2.50740	**0.03422**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	0.01860	**0.01851**	0.32940	**0.02058**	2.50740	**0.04381**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.00973**	0.32940	**0.01148**	2.50740	**0.03422**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhq_1	(!D * !Q)	0.01860	**0.01851**	0.32940	**0.02058**	2.50740	**0.04381**

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	GATE	RESET_B	Q
x	x	0	0
x	0	1	IQ
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
sg13g2_dlhrq_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	GATE	RESET_B	Q
sg13g2_dlhrq_1	0.00230	0.00237	0.00318	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhrq_1	746.39000	852.03200	913.95100

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (RR)	0.01860	0.00100	**0.12713**	0.32940	0.06480	**0.30944**	2.50740	0.30000	**0.85774**
	GATE->Q (RR)	0.01860	0.00100	**0.11500**	0.32940	0.06480	**0.30031**	2.50740	0.30000	**0.82139**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D->Q (FF)	0.01860	0.00100	**0.11326**	0.32940	0.06480	**0.27109**	2.50740	0.30000	**0.71173**
	GATE->Q (RF)	0.01860	0.00100	**0.11759**	0.32940	0.06480	**0.28295**	2.50740	0.30000	**0.72885**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04559**	0.32940	0.06480	**0.22260**	2.50740	0.30000	**0.72788**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.14031**	2.50740	2.50740	**-0.17414**
	setup	GATE (F)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.16730**	2.50740	2.50740	**0.21251**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	hold	GATE (F)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**0.01079**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.03668**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**-0.03542**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.05737**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	recovery	GATE (F)	0.01860	0.01860	**-0.00978**	1.26300	1.26300	**-0.07286**	2.50740	2.50740	**-0.10330**
	removal	GATE (F)	0.01860	0.01860	**0.01712**	1.26300	1.26300	**0.08635**	2.50740	2.50740	**0.11216**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.11826**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**0.00085**	0.32940	0.06480	**0.00132**	2.50740	0.30000	**0.00107**
	GATE	0.01860	0.00100	**0.01219**	0.32940	0.06480	**0.01260**	2.50740	0.30000	**0.01221**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhrq_1	D	0.01860	0.00100	**-0.00085**	0.32940	0.06480	**-0.00132**	2.50740	0.30000	**-0.00107**
	GATE	0.01860	0.00100	**0.01209**	0.32940	0.06480	**0.01313**	2.50740	0.30000	**0.01138**
	RESET_B	0.01860	0.00100	**0.00928**	0.32940	0.06480	**0.01164**	2.50740	0.30000	**0.03231**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.02201**	0.32940	**0.02330**	2.50740	**0.04184**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.02851**	0.32940	**0.03209**	2.50740	**0.05085**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00349**	0.32940	**0.00489**	2.50740	**0.02332**
	!RESET_B	0.01860	**0.02201**	0.32940	**0.02330**	2.50740	**0.04184**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(!GATE * RESET_B * Q)	0.01860	**0.00382**	0.32940	**0.00554**	2.50740	**0.02384**
	!RESET_B	0.01860	**0.02851**	0.32940	**0.03209**	2.50740	**0.05085**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01413**	0.32940	**0.01574**	2.50740	**0.04001**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.01874**	0.32940	**0.02083**	2.50740	**0.04400**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.01413**	0.32940	**0.01574**	2.50740	**0.04001**
	(!D * !RESET_B * !Q)	0.01860	**0.01023**	0.32940	**0.01191**	2.50740	**0.03454**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	(D * !RESET_B * !Q)	0.01860	**0.01486**	0.32940	**0.01683**	2.50740	**0.04148**
	(!D * RESET_B * !Q)	0.01860	**0.01874**	0.32940	**0.02083**	2.50740	**0.04400**
	(!D * !RESET_B * !Q)	0.01860	**0.01888**	0.32940	**0.02097**	2.50740	**0.04395**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhrq_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

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

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

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

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	GATE	RESET_B	Q	Q_N
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
sg13g2_dlhr_1	32.65920

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GATE	RESET_B	Q	Q_N
sg13g2_dlhr_1	0.00225	0.00243	0.00336	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlhr_1	945.12400	1055.34000	1112.70000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (RR)	0.01860	0.00100	**0.13752**	0.32940	0.06480	**0.32551**	2.50740	0.30000	**0.87377**
	GATE->Q (RR)	0.01860	0.00100	**0.12585**	0.32940	0.06480	**0.31750**	2.50740	0.30000	**0.84026**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q (FF)	0.01860	0.00100	**0.11736**	0.32940	0.06480	**0.27716**	2.50740	0.30000	**0.71291**
	GATE->Q (RF)	0.01860	0.00100	**0.12187**	0.32940	0.06480	**0.28969**	2.50740	0.30000	**0.73176**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04951**	0.32940	0.06480	**0.23663**	2.50740	0.30000	**0.75131**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (FR)	0.01860	0.00100	**0.14252**	0.32940	0.06480	**0.31135**	2.50740	0.30000	**0.81388**
	GATE->Q_N (RR)	0.01860	0.00100	**0.14718**	0.32940	0.06480	**0.32383**	2.50740	0.30000	**0.83290**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07456**	0.32940	0.06480	**0.26439**	2.50740	0.30000	**0.79645**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D->Q_N (RF)	0.01860	0.00100	**0.16742**	0.32940	0.06480	**0.32407**	2.50740	0.30000	**0.80487**
	GATE->Q_N (RF)	0.01860	0.00100	**0.15556**	0.32940	0.06480	**0.31600**	2.50740	0.30000	**0.77116**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.06358**	1.26300	1.26300	**-0.14301**	2.50740	2.50740	**-0.17709**
	setup	GATE (F)	0.01860	0.01860	**0.07091**	1.26300	1.26300	**0.17000**	2.50740	2.50740	**0.21546**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	hold	GATE (F)	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**0.01079**	2.50740	2.50740	**0.04132**
	setup	GATE (F)	0.01860	0.01860	**0.03668**	1.26300	1.26300	**-0.00540**	2.50740	2.50740	**-0.03542**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	GATE ()	0.01860	0.00000	**0.06058**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	recovery	GATE (F)	0.01860	0.01860	**-0.00245**	1.26300	1.26300	**-0.04048**	2.50740	2.50740	**-0.05018**
	removal	GATE (F)	0.01860	0.01860	**0.01223**	1.26300	1.26300	**0.05127**	2.50740	2.50740	**0.06198**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dlhr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.12146**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00551**	0.32940	0.06480	**0.00604**	2.50740	0.30000	**0.00595**
	GATE	0.01860	0.00100	**0.01107**	0.32940	0.06480	**0.01153**	2.50740	0.30000	**0.01125**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00184**	0.32940	0.06480	**0.00131**	2.50740	0.30000	**0.00083**
	GATE	0.01860	0.00100	**0.01106**	0.32940	0.06480	**0.01184**	2.50740	0.30000	**0.01080**
	RESET_B	0.01860	0.00100	**0.00950**	0.32940	0.06480	**0.01087**	2.50740	0.30000	**0.02223**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00185**	0.32940	0.06480	**0.00138**	2.50740	0.30000	**0.00100**
	GATE	0.01860	0.00100	**0.01796**	0.32940	0.06480	**0.01956**	2.50740	0.30000	**0.03082**
	RESET_B	0.01860	0.00100	**0.00951**	0.32940	0.06480	**0.01084**	2.50740	0.30000	**0.02234**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlhr_1	D	0.01860	0.00100	**0.00551**	0.32940	0.06480	**0.00598**	2.50740	0.30000	**0.00574**
	GATE	0.01860	0.00100	**0.01106**	0.32940	0.06480	**0.01154**	2.50740	0.30000	**0.01114**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.02161**	0.32940	**0.02296**	2.50740	**0.04154**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.02823**	0.32940	**0.03193**	2.50740	**0.05084**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00362**	0.32940	**0.00504**	2.50740	**0.02356**
	!RESET_B	0.01860	**0.02161**	0.32940	**0.02296**	2.50740	**0.04154**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(!GATE * RESET_B * Q)	0.01860	**0.00387**	0.32940	**0.00561**	2.50740	**0.02400**
	!RESET_B	0.01860	**0.02823**	0.32940	**0.03193**	2.50740	**0.05084**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01379**	0.32940	**0.01540**	2.50740	**0.03976**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.01867**	0.32940	**0.02076**	2.50740	**0.04385**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01379**	0.32940	**0.01540**	2.50740	**0.03976**
	(!D * !RESET_B * !Q)	0.01860	**0.00990**	0.32940	**0.01160**	2.50740	**0.03440**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !RESET_B * !Q)	0.01860	**0.01523**	0.32940	**0.01720**	2.50740	**0.04189**
	(!D * RESET_B * !Q)	0.01860	**0.01867**	0.32940	**0.02076**	2.50740	**0.04385**
	(!D * !RESET_B * !Q)	0.01860	**0.01870**	0.32940	**0.02082**	2.50740	**0.04389**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**-0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	0.01860	**0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**-0.00009**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**-0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dlhr_1	(D * !GATE * !Q)	0.01860	**0.00009**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * !GATE * !Q)	0.01860	**0.00004**	0.32940	**0.00000**	2.50740	**0.00000**

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	GATE_N	RESET_B	Q
0	0	x	0
x	1	0	0
x	1	1	IQ
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
sg13g2_dllrq_1	29.03040

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	D	GATE_N	RESET_B	Q
sg13g2_dllrq_1	0.00222	0.00235	0.00325	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllrq_1	746.33600	852.00500	913.96500

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (RR)	0.01860	0.00100	**0.12625**	0.32940	0.06480	**0.30818**	2.50740	0.30000	**0.85586**
	GATE_N->Q (FR)	0.01860	0.00100	**0.13965**	0.32940	0.06480	**0.32851**	2.50740	0.30000	**0.88108**
	RESET_B->Q (RR)	0.01860	0.00100	**0.06008**	0.32940	0.06480	**0.24455**	2.50740	0.30000	**0.84199**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D->Q (FF)	0.01860	0.00100	**0.11257**	0.32940	0.06480	**0.26897**	2.50740	0.30000	**0.70591**
	GATE_N->Q (FF)	0.01860	0.00100	**0.10681**	0.32940	0.06480	**0.28113**	2.50740	0.30000	**0.78687**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04590**	0.32940	0.06480	**0.22182**	2.50740	0.30000	**0.72550**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.04401**	1.26300	1.26300	**-0.05936**	2.50740	2.50740	**-0.08559**
	setup	GATE_N (R)	0.01860	0.01860	**0.05379**	1.26300	1.26300	**0.06746**	2.50740	2.50740	**0.09445**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	hold	GATE_N (R)	0.01860	0.01860	**-0.05624**	1.26300	1.26300	**-0.14841**	2.50740	2.50740	**-0.18890**
	setup	GATE_N (R)	0.01860	0.01860	**0.06358**	1.26300	1.26300	**0.17539**	2.50740	2.50740	**0.23612**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.07019**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.02201**	1.26300	1.26300	**-0.05936**	2.50740	2.50740	**-0.05313**
	removal	GATE_N (R)	0.01860	0.01860	**0.03179**	1.26300	1.26300	**0.06746**	2.50740	2.50740	**0.05903**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllrq_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.11826**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00848**	0.32940	0.06480	**0.00894**	2.50740	0.30000	**0.00896**
	GATE_N	0.01860	0.00100	**0.00833**	0.32940	0.06480	**0.00873**	2.50740	0.30000	**0.00824**
	RESET_B	0.01860	0.00100	**0.01248**	0.32940	0.06480	**0.01336**	2.50740	0.30000	**0.03290**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllrq_1	D	0.01860	0.00100	**0.00262**	0.32940	0.06480	**0.00063**	2.50740	0.30000	**0.00018**
	GATE_N	0.01860	0.00100	**0.00668**	0.32940	0.06480	**0.00728**	2.50740	0.30000	**0.00823**
	RESET_B	0.01860	0.00100	**0.00942**	0.32940	0.06480	**0.01174**	2.50740	0.30000	**0.03261**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01427**	0.32940	**0.01564**	2.50740	**0.03399**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01959**	0.32940	**0.02382**	2.50740	**0.04258**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00342**	0.32940	**0.00482**	2.50740	**0.02326**
	!RESET_B	0.01860	**0.01427**	0.32940	**0.01564**	2.50740	**0.03399**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(GATE_N * RESET_B * Q)	0.01860	**0.00380**	0.32940	**0.00553**	2.50740	**0.02388**
	!RESET_B	0.01860	**0.01959**	0.32940	**0.02382**	2.50740	**0.04258**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01616**	0.32940	**0.01759**	2.50740	**0.04004**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.01880**	0.32940	**0.02089**	2.50740	**0.04401**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.01616**	0.32940	**0.01759**	2.50740	**0.04004**
	(!D * !RESET_B * !Q)	0.01860	**0.00929**	0.32940	**0.01096**	2.50740	**0.03378**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	(D * !RESET_B * !Q)	0.01860	**0.01537**	0.32940	**0.01737**	2.50740	**0.04011**
	(!D * RESET_B * !Q)	0.01860	**0.01880**	0.32940	**0.02089**	2.50740	**0.04401**
	(!D * !RESET_B * !Q)	0.01860	**0.01883**	0.32940	**0.02092**	2.50740	**0.04430**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllrq_1	0.01860	**0.00000**	0.32940	**0.00000**	2.50740	**0.00000**

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

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

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

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

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	GATE_N	RESET_B	Q	Q_N
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
sg13g2_dllr_1	34.47360

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GATE_N	RESET_B	Q	Q_N
sg13g2_dllr_1	0.00233	0.00249	0.00332	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dllr_1	945.00700	1072.35000	1112.70000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (RR)	0.01860	0.00100	**0.13843**	0.32940	0.06480	**0.32595**	2.50740	0.30000	**0.87331**
	GATE_N->Q (FR)	0.01860	0.00100	**0.15183**	0.32940	0.06480	**0.34708**	2.50740	0.30000	**0.90041**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q (FF)	0.01860	0.00100	**0.11875**	0.32940	0.06480	**0.27822**	2.50740	0.30000	**0.71433**
	GATE_N->Q (FF)	0.01860	0.00100	**0.11368**	0.32940	0.06480	**0.29212**	2.50740	0.30000	**0.80066**
	RESET_B->Q (FF)	0.01860	0.00100	**0.04934**	0.32940	0.06480	**0.24018**	2.50740	0.30000	**0.72586**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (FR)	0.01860	0.00100	**0.14374**	0.32940	0.06480	**0.31213**	2.50740	0.30000	**0.81427**
	GATE_N->Q_N (FR)	0.01860	0.00100	**0.13880**	0.32940	0.06480	**0.32599**	2.50740	0.30000	**0.90028**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.07485**	0.32940	0.06480	**0.26580**	2.50740	0.30000	**0.80213**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D->Q_N (RF)	0.01860	0.00100	**0.16809**	0.32940	0.06480	**0.32461**	2.50740	0.30000	**0.80460**
	GATE_N->Q_N (FF)	0.01860	0.00100	**0.18135**	0.32940	0.06480	**0.34575**	2.50740	0.30000	**0.83178**

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.04890**	1.26300	1.26300	**-0.06476**	2.50740	2.50740	**-0.08855**
	setup	GATE_N (R)	0.01860	0.01860	**0.06113**	1.26300	1.26300	**0.07286**	2.50740	2.50740	**0.09740**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	hold	GATE_N (R)	0.01860	0.01860	**-0.05868**	1.26300	1.26300	**-0.15111**	2.50740	2.50740	**-0.18890**
	setup	GATE_N (R)	0.01860	0.01860	**0.06602**	1.26300	1.26300	**0.17809**	2.50740	2.50740	**0.23908**

Constraints(ns) for GATE_N falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	GATE_N ()	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	recovery	GATE_N (R)	0.01860	0.01860	**-0.01712**	1.26300	1.26300	**-0.02698**	2.50740	2.50740	**-0.00295**
	removal	GATE_N (R)	0.01860	0.01860	**0.02690**	1.26300	1.26300	**0.03778**	2.50740	2.50740	**0.00885**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_dllr_1	min_pulse_width	RESET_B ()	0.01860	0.00000	**0.12146**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.01169**	0.32940	0.06480	**0.06837**	2.50740	0.30000	**0.27300**
	GATE_N	0.01860	0.00100	**0.02266**	0.32940	0.06480	**0.07933**	2.50740	0.30000	**0.28422**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00574**	0.32940	0.06480	**0.05620**	2.50740	0.30000	**0.26019**
	GATE_N	0.01860	0.00100	**0.02057**	0.32940	0.06480	**0.07727**	2.50740	0.30000	**0.28314**
	RESET_B	0.01860	0.00100	**0.02955**	0.32940	0.06480	**0.08715**	2.50740	0.30000	**0.31023**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.00575**	0.32940	0.06480	**0.05634**	2.50740	0.30000	**0.26057**
	GATE_N	0.01860	0.00100	**0.03622**	0.32940	0.06480	**0.09490**	2.50740	0.30000	**0.32386**
	RESET_B	0.01860	0.00100	**0.02951**	0.32940	0.06480	**0.08712**	2.50740	0.30000	**0.31023**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dllr_1	D	0.01860	0.00100	**0.01169**	0.32940	0.06480	**0.06820**	2.50740	0.30000	**0.27266**
	GATE_N	0.01860	0.00100	**0.02266**	0.32940	0.06480	**0.07924**	2.50740	0.30000	**0.28358**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.02232**	0.32940	**0.02369**	2.50740	**0.04223**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.02691**	0.32940	**0.03468**	2.50740	**0.05351**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	**(GATE_N * RESET_B * Q)**	0.01860	**0.00367**	0.32940	**0.00510**	2.50740	**0.02358**
	!RESET_B	0.01860	**0.02232**	0.32940	**0.02369**	2.50740	**0.04223**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	**(GATE_N * RESET_B * Q)**	0.01860	**0.00362**	0.32940	**0.00536**	2.50740	**0.02371**
	!RESET_B	0.01860	**0.02691**	0.32940	**0.03468**	2.50740	**0.05351**

Passive power(pJ) for GATE_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01782**	0.32940	**0.02064**	2.50740	**0.04329**

Passive power(pJ) for GATE_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.01561**	0.32940	**0.01758**	2.50740	**0.04030**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01629**	0.32940	**0.01772**	2.50740	**0.04012**
	(!D * RESET_B * !Q)	0.01860	**0.01782**	0.32940	**0.02064**	2.50740	**0.04329**
	(!D * !RESET_B * !Q)	0.01860	**0.01785**	0.32940	**0.02066**	2.50740	**0.04341**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * !RESET_B * !Q)	0.01860	**0.01561**	0.32940	**0.01758**	2.50740	**0.04030**
	(!D * !RESET_B * !Q)	0.01860	**0.01044**	0.32940	**0.01247**	2.50740	**0.03541**

Passive power(pJ) for RESET_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**-0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

Passive power(pJ) for RESET_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	0.01860	**0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**-0.00013**	0.32940	**-0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**-0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_dllr_1	(D * GATE_N * !Q)	0.01860	**0.00013**	0.32940	**0.00000**	2.50740	**0.00000**
	(!D * GATE_N * !Q)	0.01860	**0.00007**	0.32940	**0.00000**	2.50740	**0.00000**

DLYGATE4SD1

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd1_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd1_1	0.00160	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd1_1	308.70500	324.83000	340.95500

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (RR)**	0.01860	0.00100	**0.07855**	0.32940	0.06480	**0.25376**	2.50740	0.30000	**0.73727**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A->X (FF)**	0.01860	0.00100	**0.09071**	0.32940	0.06480	**0.26911**	2.50740	0.30000	**0.80757**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01554**	0.32940	0.06480	**0.01677**	2.50740	0.30000	**0.02840**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd1_1	**A**	0.01860	0.00100	**0.01485**	0.32940	0.06480	**0.01630**	2.50740	0.30000	**0.02809**

DLYGATE4SD2

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

Truth Table

INPUT	OUTPUT
A	X
0	0
1	1

Footprint

Cell Name	Area
sg13g2_dlygate4sd2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	X
sg13g2_dlygate4sd2_1	0.00159	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd2_1	402.35600	418.47900	434.60300

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (RR)**	0.01860	0.00100	**0.11607**	0.32940	0.06480	**0.30267**	2.50740	0.30000	**0.82110**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A->X (FF)**	0.01860	0.00100	**0.12926**	0.32940	0.06480	**0.32627**	2.50740	0.30000	**0.89387**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01859**	0.32940	0.06480	**0.01964**	2.50740	0.30000	**0.03058**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd2_1	**A**	0.01860	0.00100	**0.01796**	0.32940	0.06480	**0.01915**	2.50740	0.30000	**0.03049**

DLYGATE4SD3

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	0.00160	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_dlygate4sd3_1	939.24100	955.34500	971.44900

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (RR)**	0.01860	0.00100	**0.24040**	0.32940	0.06480	**0.45391**	2.50740	0.30000	**1.04391**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A->X (FF)**	0.01860	0.00100	**0.24389**	0.32940	0.06480	**0.47777**	2.50740	0.30000	**1.11309**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02707**	0.32940	0.06480	**0.02746**	2.50740	0.30000	**0.03770**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_dlygate4sd3_1	**A**	0.01860	0.00100	**0.02663**	0.32940	0.06480	**0.02711**	2.50740	0.30000	**0.03777**

EBUFNx

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_2	18.14400
sg13g2_ebufn_4	27.21600
sg13g2_ebufn_8	45.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_ebufn_2	0.00283	0.00689	0.60000
sg13g2_ebufn_4	0.00318	0.01123	1.20000
sg13g2_ebufn_8	0.00623	0.01879	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_ebufn_2	218.51600	523.63400	835.47700
sg13g2_ebufn_4	266.15400	876.36500	1549.32000
sg13g2_ebufn_8	374.45400	1634.29000	3019.59000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (RR)	0.01860	0.00594	**0.04518**	0.32940	0.13454	**0.35620**	2.50740	0.60494	**1.37947**
	TE_B->Z (RR)	0.01860	0.00594	**0.03472**	0.32940	0.13454	**0.08299**	2.50740	0.60494	**0.18186**
	TE_B->Z (FR)	0.01860	0.00594	**0.02500**	0.32940	0.13454	**0.35945**	2.50740	0.60494	**1.83376**
sg13g2_ebufn_4	A->Z (RR)	0.01860	0.01073	**0.05335**	0.32940	0.26893	**0.38748**	2.50740	1.20973	**1.45126**
	TE_B->Z (RR)	0.01860	0.01073	**0.04052**	0.32940	0.26893	**0.10060**	2.50740	1.20973	**0.22146**
	TE_B->Z (FR)	0.01860	0.01073	**0.02497**	0.32940	0.26893	**0.36333**	2.50740	1.20973	**1.84708**
sg13g2_ebufn_8	A->Z (RR)	0.01860	0.02022	**0.05222**	0.32940	0.53761	**0.38776**	2.50740	2.41922	**1.45405**
	TE_B->Z (RR)	0.01860	0.02022	**0.05107**	0.32940	0.53761	**0.13413**	2.50740	2.41922	**0.30783**
	TE_B->Z (FR)	0.01860	0.02022	**0.02559**	0.32940	0.53761	**0.36521**	2.50740	2.41922	**1.85072**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A->Z (FF)	0.01860	0.00846	**0.04674**	0.32940	0.13706	**0.30612**	2.50740	0.60746	**1.10742**
	TE_B->Z (RF)	0.01860	0.00846	**0.01940**	0.32940	0.13706	**0.04406**	2.50740	0.60746	**0.22732**
	TE_B->Z (FF)	0.01860	0.00846	**0.04377**	0.32940	0.13706	**0.37104**	2.50740	0.60746	**1.45341**
sg13g2_ebufn_4	A->Z (FF)	0.01860	0.01565	**0.05960**	0.32940	0.27385	**0.34264**	2.50740	1.21465	**1.19378**
	TE_B->Z (RF)	0.01860	0.01565	**0.02055**	0.32940	0.27385	**0.04487**	2.50740	1.21465	**0.23005**
	TE_B->Z (FF)	0.01860	0.01565	**0.05144**	0.32940	0.27385	**0.40033**	2.50740	1.21465	**1.52087**
sg13g2_ebufn_8	A->Z (FF)	0.01860	0.02990	**0.05822**	0.32940	0.54730	**0.34253**	2.50740	2.42890	**1.19416**
	TE_B->Z (RF)	0.01860	0.02990	**0.02192**	0.32940	0.54730	**0.04636**	2.50740	2.42890	**0.23401**
	TE_B->Z (FF)	0.01860	0.02990	**0.06655**	0.32940	0.54730	**0.44488**	2.50740	2.42890	**1.63213**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00594	**0.01288**	0.32940	0.13454	**0.01358**	2.50740	0.60494	**0.01220**
	TE_B	0.01860	0.00594	**0.00249**	0.32940	0.13454	**0.00224**	2.50740	0.60494	**0.00167**
sg13g2_ebufn_4	A	0.01860	0.01073	**0.02486**	0.32940	0.26893	**0.02715**	2.50740	1.20973	**0.02631**
	TE_B	0.01860	0.01073	**0.00462**	0.32940	0.26893	**0.00413**	2.50740	1.20973	**0.00351**
sg13g2_ebufn_8	A	0.01860	0.02022	**0.04955**	0.32940	0.53761	**0.05580**	2.50740	2.41922	**0.05759**
	TE_B	0.01860	0.02022	**0.00891**	0.32940	0.53761	**0.00776**	2.50740	2.41922	**0.00725**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_ebufn_2	A	0.01860	0.00846	**0.01072**	0.32940	0.13706	**0.01167**	2.50740	0.60746	**0.01111**
	TE_B	0.01860	0.00846	**0.00284**	0.32940	0.13706	**0.02918**	2.50740	0.60746	**0.12832**
sg13g2_ebufn_4	A	0.01860	0.01565	**0.02145**	0.32940	0.27385	**0.02271**	2.50740	1.21465	**0.02189**
	TE_B	0.01860	0.01565	**0.00524**	0.32940	0.27385	**0.05721**	2.50740	1.21465	**0.25675**
sg13g2_ebufn_8	A	0.01860	0.02990	**0.04263**	0.32940	0.54730	**0.04539**	2.50740	2.42890	**0.04328**
	TE_B	0.01860	0.02990	**0.00999**	0.32940	0.54730	**0.11380**	2.50740	2.42890	**0.51390**

Passive power(pJ) for A rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00341**	0.32940	**0.00529**	2.50740	**0.02766**
sg13g2_ebufn_4	0.01860	**0.00568**	0.32940	**0.00750**	2.50740	**0.03246**
sg13g2_ebufn_8	0.01860	**0.01050**	0.32940	**0.01422**	2.50740	**0.06446**

Passive power(pJ) for A falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00326**	0.32940	**0.00549**	2.50740	**0.02759**
sg13g2_ebufn_4	0.01860	**0.00517**	0.32940	**0.00741**	2.50740	**0.03234**
sg13g2_ebufn_8	0.01860	**0.00968**	0.32940	**0.01430**	2.50740	**0.06423**

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.00022**	0.32940	**0.00160**	2.50740	**0.02347**
sg13g2_ebufn_4	0.01860	**-0.00072**	0.32940	**0.00015**	2.50740	**0.02426**
sg13g2_ebufn_8	0.01860	**-0.00350**	0.32940	**-0.00346**	2.50740	**0.01862**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_ebufn_2	0.01860	**0.01687**	0.32940	**0.01907**	2.50740	**0.04094**
sg13g2_ebufn_4	0.01860	**0.03282**	0.32940	**0.03505**	2.50740	**0.05936**
sg13g2_ebufn_8	0.01860	**0.06387**	0.32940	**0.06564**	2.50740	**0.08864**

EINVNx

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_2	16.32960
sg13g2_einvn_4	23.58720
sg13g2_einvn_8	39.91680

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	TE_B	Z
sg13g2_einvn_2	0.00427	0.00525	0.60000
sg13g2_einvn_4	0.00834	0.00980	1.20000
sg13g2_einvn_8	0.01650	0.01676	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_einvn_2	581.54000	660.35200	739.16300
sg13g2_einvn_4	1155.03000	1312.66000	1470.28000
sg13g2_einvn_8	2231.02000	2546.27000	2861.52000

Delay Information

Delay(ns) to Z rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (FR)	0.01860	0.00595	**0.01971**	0.32940	0.13455	**0.39047**	2.50740	0.60495	**2.08847**
	TE_B->Z (RR)	0.01860	0.00595	**0.03794**	0.32940	0.13455	**0.09416**	2.50740	0.60495	**0.20766**
	TE_B->Z (FR)	0.01860	0.00595	**0.02397**	0.32940	0.13455	**0.35974**	2.50740	0.60495	**1.83857**
sg13g2_einvn_4	A->Z (FR)	0.01860	0.01071	**0.01831**	0.32940	0.26891	**0.39089**	2.50740	1.20971	**2.09139**
	TE_B->Z (RR)	0.01860	0.01071	**0.03922**	0.32940	0.26891	**0.09889**	2.50740	1.20971	**0.22055**
	TE_B->Z (FR)	0.01860	0.01071	**0.02330**	0.32940	0.26891	**0.35998**	2.50740	1.20971	**1.83836**
sg13g2_einvn_8	A->Z (FR)	0.01860	0.02032	**0.01770**	0.32940	0.53772	**0.39250**	2.50740	2.41932	**2.09944**
	TE_B->Z (RR)	0.01860	0.02032	**0.04989**	0.32940	0.53772	**0.13442**	2.50740	2.41932	**0.30639**
	TE_B->Z (FR)	0.01860	0.02032	**0.02432**	0.32940	0.53772	**0.36240**	2.50740	2.41932	**1.84343**

Delay(ns) to Z falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A->Z (RF)	0.01860	0.00849	**0.01827**	0.32940	0.13709	**0.35041**	2.50740	0.60749	**1.89409**
sg13g2_einvn_4	A->Z (RF)	0.01860	0.01568	**0.01704**	0.32940	0.27388	**0.35030**	2.50740	1.21468	**1.89430**
sg13g2_einvn_8	A->Z (RF)	0.01860	0.03022	**0.01653**	0.32940	0.54762	**0.35212**	2.50740	2.42922	**1.90378**

Power Information

Internal switching power(pJ) to Z rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00595	**0.00322**	0.32940	0.13455	**0.00503**	2.50740	0.60495	**0.01568**
	TE_B	0.01860	0.00595	**0.01020**	0.32940	0.13455	**0.00978**	2.50740	0.60495	**0.00890**
sg13g2_einvn_4	A	0.01860	0.01071	**0.00638**	0.32940	0.26891	**0.01004**	2.50740	1.20971	**0.03131**
	TE_B	0.01860	0.01071	**0.02064**	0.32940	0.26891	**0.01986**	2.50740	1.20971	**0.01863**
sg13g2_einvn_8	A	0.01860	0.02032	**0.01270**	0.32940	0.53772	**0.02019**	2.50740	2.41932	**0.06230**
	TE_B	0.01860	0.02032	**0.04342**	0.32940	0.53772	**0.04095**	2.50740	2.41932	**0.03796**

Internal switching power(pJ) to Z falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_einvn_2	A	0.01860	0.00849	**0.00305**	0.32940	0.13709	**0.00474**	2.50740	0.60749	**0.01493**
sg13g2_einvn_4	A	0.01860	0.01568	**0.00574**	0.32940	0.27388	**0.00929**	2.50740	1.21468	**0.02950**
sg13g2_einvn_8	A	0.01860	0.03022	**0.01119**	0.32940	0.54762	**0.01829**	2.50740	2.42922	**0.05815**

Passive power(pJ) for A rising :

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

Passive power(pJ) for A falling :

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

Passive power(pJ) for TE_B rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**-0.00589**	0.32940	**-0.00540**	2.50740	**0.00805**
sg13g2_einvn_4	0.01860	**-0.01242**	0.32940	**-0.01170**	2.50740	**0.01257**
sg13g2_einvn_8	0.01860	**-0.02729**	0.32940	**-0.02765**	2.50740	**-0.00557**

Passive power(pJ) for TE_B falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_einvn_2	0.01860	**0.00851**	0.32940	**0.00989**	2.50740	**0.02377**
sg13g2_einvn_4	0.01860	**0.01689**	0.32940	**0.01944**	2.50740	**0.04468**
sg13g2_einvn_8	0.01860	**0.02957**	0.32940	**0.03265**	2.50740	**0.05713**

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

INVx

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_1	5.44320
sg13g2_inv_16	34.47360
sg13g2_inv_2	7.25760
sg13g2_inv_4	10.88640
sg13g2_inv_8	18.14400

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
sg13g2_inv_1	0.00306	0.30000
sg13g2_inv_16	0.04627	4.80000
sg13g2_inv_2	0.00606	0.60000
sg13g2_inv_4	0.01199	1.20000
sg13g2_inv_8	0.02398	2.40000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_inv_1	79.03790	118.48100	157.92500
sg13g2_inv_16	1264.61000	1895.10000	2525.60000
sg13g2_inv_2	158.08400	236.90100	315.71900
sg13g2_inv_4	316.15100	473.77600	631.40000
sg13g2_inv_8	632.30300	947.58100	1262.86000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (FR)**	0.01860	0.00100	**0.01508**	0.32940	0.06480	**0.26947**	2.50740	0.30000	**1.50692**
sg13g2_inv_16	**A->Y (FR)**	0.01860	0.00100	**0.01480**	0.32940	1.03680	**0.27398**	2.50740	4.80000	**1.51665**
sg13g2_inv_2	**A->Y (FR)**	0.01860	0.00100	**0.01307**	0.32940	0.12960	**0.26912**	2.50740	0.60000	**1.50694**
sg13g2_inv_4	**A->Y (FR)**	0.01860	0.00100	**0.01212**	0.32940	0.25920	**0.26962**	2.50740	1.20000	**1.50956**
sg13g2_inv_8	**A->Y (FR)**	0.01860	0.00100	**0.01186**	0.32940	0.51840	**0.26988**	2.50740	2.40000	**1.51036**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A->Y (RF)**	0.01860	0.00100	**0.01490**	0.32940	0.06480	**0.25874**	2.50740	0.30000	**1.44885**
sg13g2_inv_16	**A->Y (RF)**	0.01860	0.00100	**0.01515**	0.32940	1.03680	**0.26343**	2.50740	4.80000	**1.45938**
sg13g2_inv_2	**A->Y (RF)**	0.01860	0.00100	**0.01304**	0.32940	0.12960	**0.25839**	2.50740	0.60000	**1.44869**
sg13g2_inv_4	**A->Y (RF)**	0.01860	0.00100	**0.01222**	0.32940	0.25920	**0.25987**	2.50740	1.20000	**1.45640**
sg13g2_inv_8	**A->Y (RF)**	0.01860	0.00100	**0.01201**	0.32940	0.51840	**0.26007**	2.50740	2.40000	**1.45702**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00181**	0.32940	0.06480	**0.00278**	2.50740	0.30000	**0.01069**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02587**	0.32940	1.03680	**0.04137**	2.50740	4.80000	**0.17118**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00324**	0.32940	0.12960	**0.00525**	2.50740	0.60000	**0.02103**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00643**	0.32940	0.25920	**0.01054**	2.50740	1.20000	**0.04240**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01280**	0.32940	0.51840	**0.02097**	2.50740	2.40000	**0.08324**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_inv_1	**A**	0.01860	0.00100	**0.00175**	0.32940	0.06480	**0.00260**	2.50740	0.30000	**0.00949**
sg13g2_inv_16	**A**	0.01860	0.00100	**0.02120**	0.32940	1.03680	**0.03690**	2.50740	4.80000	**0.14825**
sg13g2_inv_2	**A**	0.01860	0.00100	**0.00276**	0.32940	0.12960	**0.00465**	2.50740	0.60000	**0.01838**
sg13g2_inv_4	**A**	0.01860	0.00100	**0.00527**	0.32940	0.25920	**0.00919**	2.50740	1.20000	**0.03693**
sg13g2_inv_8	**A**	0.01860	0.00100	**0.01045**	0.32940	0.51840	**0.01816**	2.50740	2.40000	**0.07395**

LGCP

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

Truth Table

INPUT		OUTPUT
CLK	GATE	GCLK
0	x	0
1	x	GCLK

Footprint

Cell Name	Area
sg13g2_lgcp_1	27.21600

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CLK	GATE	GCLK
sg13g2_lgcp_1	0.00534	0.00250	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_lgcp_1	801.81300	826.73200	872.60900

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.05282**	0.32940	0.06480	**0.23188**	2.50740	0.30000	**0.81254**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.04288**	0.32940	0.06480	**0.21311**	2.50740	0.30000	**0.70836**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.15030**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06699**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02536**	1.26300	1.26300	**-0.12604**	2.50740	2.50740	**-0.20673**
	setup	**CLK (R)**	0.01860	0.01860	**0.05195**	1.26300	1.26300	**0.17393**	2.50740	2.50740	**0.26185**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_lgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.01028**	1.26300	1.26300	**0.01100**	2.50740	2.50740	**0.02644**
	setup	**CLK (R)**	0.01860	0.01860	**0.03428**	1.26300	1.26300	**0.02320**	2.50740	2.50740	**0.01758**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.01162**	0.32940	0.06480	**0.01246**	2.50740	0.30000	**0.02907**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_lgcp_1	CLK	0.01860	0.00100	**0.00680**	0.32940	0.06480	**0.00900**	2.50740	0.30000	**0.02644**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.00807**	0.32940	**0.00973**	2.50740	**0.03241**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.01031**	0.32940	**0.01224**	2.50740	**0.03519**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.02411**	0.32940	**0.02543**	2.50740	**0.04373**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	0.01860	**0.02003**	0.32940	**0.03659**	2.50740	**0.05501**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.02411**	0.32940	**0.02543**	2.50740	**0.04373**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_lgcp_1	**!CLK**	0.01860	**0.02003**	0.32940	**0.03659**	2.50740	**0.05501**

MUX2x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux2_1	18.14400
sg13g2_mux2_2	19.95840

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	S	X
sg13g2_mux2_1	0.00299	0.00310	0.00553	0.30000
sg13g2_mux2_2	0.00297	0.00308	0.00552	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux2_1	481.22000	559.06600	661.65900
sg13g2_mux2_2	583.67600	677.48700	746.54900

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (RR)	0.01860	0.00100	**0.05180**	0.32940	0.06480	**0.24597**	2.50740	0.30000	**0.83378**
	A1->X (RR)	0.01860	0.00100	**0.05212**	0.32940	0.06480	**0.24808**	2.50740	0.30000	**0.83903**
	S->X (-R)	0.01860	0.00100	**0.05711**	0.32940	0.06480	**0.24424**	2.50740	0.30000	**0.82715**
sg13g2_mux2_2	A0->X (RR)	0.01860	0.00100	**0.05995**	0.32940	0.12960	**0.27458**	2.50740	0.60000	**0.89249**
	A1->X (RR)	0.01860	0.00100	**0.06009**	0.32940	0.12960	**0.27638**	2.50740	0.60000	**0.89696**
	S->X (-R)	0.01860	0.00100	**0.06567**	0.32940	0.12960	**0.26937**	2.50740	0.60000	**0.88095**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0->X (FF)	0.01860	0.00100	**0.06452**	0.32940	0.06480	**0.25640**	2.50740	0.30000	**0.81807**
	A1->X (FF)	0.01860	0.00100	**0.06431**	0.32940	0.06480	**0.25660**	2.50740	0.30000	**0.82205**
	S->X (-F)	0.01860	0.00100	**0.07183**	0.32940	0.06480	**0.24517**	2.50740	0.30000	**0.77795**
sg13g2_mux2_2	A0->X (FF)	0.01860	0.00100	**0.07823**	0.32940	0.12960	**0.29236**	2.50740	0.60000	**0.88840**
	A1->X (FF)	0.01860	0.00100	**0.07792**	0.32940	0.12960	**0.29238**	2.50740	0.60000	**0.89068**
	S->X (-F)	0.01860	0.00100	**0.08577**	0.32940	0.12960	**0.27772**	2.50740	0.60000	**0.84049**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.05711**	0.32940	0.06480	**0.24424**	2.50740	0.30000	**0.82715**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.07976**	0.32940	0.06480	**0.25541**	2.50740	0.30000	**0.75916**
sg13g2_mux2_2	S->X (RR)	(!A0 * A1)	0.01860	0.00100	**0.06567**	0.32940	0.12960	**0.26937**	2.50740	0.60000	**0.88095**
	S->X (FR)	(A0 * !A1)	0.01860	0.00100	**0.08846**	0.32940	0.12960	**0.27142**	2.50740	0.60000	**0.77886**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.07183**	0.32940	0.06480	**0.24517**	2.50740	0.30000	**0.77795**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.09269**	0.32940	0.06480	**0.26219**	2.50740	0.30000	**0.75016**
sg13g2_mux2_2	S->X (FF)	(!A0 * A1)	0.01860	0.00100	**0.08577**	0.32940	0.12960	**0.27772**	2.50740	0.60000	**0.84049**
	S->X (RF)	(A0 * !A1)	0.01860	0.00100	**0.10674**	0.32940	0.12960	**0.28621**	2.50740	0.60000	**0.77614**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01089**	0.32940	0.06480	**0.01241**	2.50740	0.30000	**0.03134**
	A1	0.01860	0.00100	**0.01100**	0.32940	0.06480	**0.01256**	2.50740	0.30000	**0.03139**
	S	0.01860	0.00100	**0.01194**	0.32940	0.06480	**0.01314**	2.50740	0.30000	**0.03039**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.01618**	0.32940	0.12960	**0.01758**	2.50740	0.60000	**0.03569**
	A1	0.01860	0.00100	**0.01622**	0.32940	0.12960	**0.01772**	2.50740	0.60000	**0.03611**
	S	0.01860	0.00100	**0.01707**	0.32940	0.12960	**0.01846**	2.50740	0.60000	**0.03510**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	A0	0.01860	0.00100	**0.01083**	0.32940	0.06480	**0.01268**	2.50740	0.30000	**0.03145**
	A1	0.01860	0.00100	**0.01076**	0.32940	0.06480	**0.01257**	2.50740	0.30000	**0.03202**
	S	0.01860	0.00100	**0.01127**	0.32940	0.06480	**0.01239**	2.50740	0.30000	**0.03008**
sg13g2_mux2_2	A0	0.01860	0.00100	**0.01631**	0.32940	0.12960	**0.01768**	2.50740	0.60000	**0.03628**
	A1	0.01860	0.00100	**0.01619**	0.32940	0.12960	**0.01759**	2.50740	0.60000	**0.03658**
	S	0.01860	0.00100	**0.01635**	0.32940	0.12960	**0.01735**	2.50740	0.60000	**0.03477**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01183**	0.32940	0.06480	**0.01205**	2.50740	0.30000	**0.01206**
	S	(!A0 * A1)	0.01860	0.00100	**0.01194**	0.32940	0.06480	**0.01314**	2.50740	0.30000	**0.03039**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.01695**	0.32940	0.12960	**0.01741**	2.50740	0.60000	**0.01726**
	S	(!A0 * A1)	0.01860	0.00100	**0.01707**	0.32940	0.12960	**0.01846**	2.50740	0.60000	**0.03510**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux2_1	S	(A0 * !A1)	0.01860	0.00100	**0.01237**	0.32940	0.06480	**0.01291**	2.50740	0.30000	**0.01276**
	S	(!A0 * A1)	0.01860	0.00100	**0.01127**	0.32940	0.06480	**0.01239**	2.50740	0.30000	**0.03008**
sg13g2_mux2_2	S	(A0 * !A1)	0.01860	0.00100	**0.01747**	0.32940	0.12960	**0.01812**	2.50740	0.60000	**0.01789**
	S	(!A0 * A1)	0.01860	0.00100	**0.01635**	0.32940	0.12960	**0.01735**	2.50740	0.60000	**0.03477**

Passive power(pJ) for S rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00421**	0.32940	**0.00545**	2.50740	**0.02381**
sg13g2_mux2_2	0.01860	**0.00421**	0.32940	**0.00544**	2.50740	**0.02380**

Passive power(pJ) for S falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	0.01860	**0.00475**	0.32940	**0.00635**	2.50740	**0.02455**
sg13g2_mux2_2	0.01860	**0.00476**	0.32940	**0.00635**	2.50740	**0.02455**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	(A0 * A1)	0.01860	**0.00421**	0.32940	**0.00545**	2.50740	**0.02381**
	(!A0 * !A1)	0.01860	**0.00380**	0.32940	**0.00515**	2.50740	**0.02337**
sg13g2_mux2_2	(A0 * A1)	0.01860	**0.00421**	0.32940	**0.00544**	2.50740	**0.02380**
	(!A0 * !A1)	0.01860	**0.00381**	0.32940	**0.00514**	2.50740	**0.02341**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux2_1	**(A0 * A1)**	0.01860	**0.00451**	0.32940	**0.00606**	2.50740	**0.02420**
	(!A0 * !A1)	0.01860	**0.00475**	0.32940	**0.00635**	2.50740	**0.02455**
sg13g2_mux2_2	**(A0 * A1)**	0.01860	**0.00452**	0.32940	**0.00607**	2.50740	**0.02421**
	(!A0 * !A1)	0.01860	**0.00476**	0.32940	**0.00635**	2.50740	**0.02455**

MUX4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_mux4_1	38.10240

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	A3	S0	S1	X
sg13g2_mux4_1	0.00305	0.00302	0.00305	0.00311	0.00882	0.00536	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_mux4_1	762.59600	984.26200	1144.80000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (RR)	0.01860	0.00100	**0.09373**	0.32940	0.06480	**0.30534**	2.50740	0.30000	**0.95764**
	A1->X (RR)	0.01860	0.00100	**0.09163**	0.32940	0.06480	**0.30435**	2.50740	0.30000	**0.95557**
	A2->X (RR)	0.01860	0.00100	**0.09685**	0.32940	0.06480	**0.31205**	2.50740	0.30000	**0.97198**
	A3->X (RR)	0.01860	0.00100	**0.09498**	0.32940	0.06480	**0.31094**	2.50740	0.30000	**0.96964**
	S0->X (-R)	0.01860	0.00100	**0.08311**	0.32940	0.06480	**0.30500**	2.50740	0.30000	**0.96247**
	S1->X (-R)	0.01860	0.00100	**0.05008**	0.32940	0.06480	**0.24479**	2.50740	0.30000	**0.83904**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	A0->X (FF)	0.01860	0.00100	**0.10337**	0.32940	0.06480	**0.29788**	2.50740	0.30000	**0.84389**
	A1->X (FF)	0.01860	0.00100	**0.10469**	0.32940	0.06480	**0.29798**	2.50740	0.30000	**0.84463**
	A2->X (FF)	0.01860	0.00100	**0.10962**	0.32940	0.06480	**0.30695**	2.50740	0.30000	**0.86192**
	A3->X (FF)	0.01860	0.00100	**0.11075**	0.32940	0.06480	**0.30651**	2.50740	0.30000	**0.86094**
	S0->X (-F)	0.01860	0.00100	**0.09546**	0.32940	0.06480	**0.30261**	2.50740	0.30000	**0.87441**
	S1->X (-F)	0.01860	0.00100	**0.05779**	0.32940	0.06480	**0.23812**	2.50740	0.30000	**0.75965**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (RR)	(!A2 * A3 * S1)	0.01860	0.00100	**0.08311**	0.32940	0.06480	**0.30500**	2.50740	0.30000	**0.96247**
	S0->X (RR)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.07883**	0.32940	0.06480	**0.29470**	2.50740	0.30000	**0.94114**
	S0->X (FR)	(A2 * !A3 * S1)	0.01860	0.00100	**0.11896**	0.32940	0.06480	**0.31979**	2.50740	0.30000	**0.86833**
	S0->X (FR)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.11594**	0.32940	0.06480	**0.31482**	2.50740	0.30000	**0.86120**
	S1->X (RR)	(!A1 * A3 * S0)	0.01860	0.00100	**0.05016**	0.32940	0.06480	**0.24480**	2.50740	0.30000	**0.83845**
	S1->X (RR)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.05008**	0.32940	0.06480	**0.24479**	2.50740	0.30000	**0.83904**
	S1->X (FR)	(A1 * !A3 * S0)	0.01860	0.00100	**0.06552**	0.32940	0.06480	**0.24947**	2.50740	0.30000	**0.75523**
	S1->X (FR)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.06535**	0.32940	0.06480	**0.24947**	2.50740	0.30000	**0.75532**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0->X (FF)	(!A2 * A3 * S1)	0.01860	0.00100	**0.09546**	0.32940	0.06480	**0.30261**	2.50740	0.30000	**0.87441**
	S0->X (FF)	(!A0 * A1 * !S1)	0.01860	0.00100	**0.08758**	0.32940	0.06480	**0.28992**	2.50740	0.30000	**0.84919**
	S0->X (RF)	(A2 * !A3 * S1)	0.01860	0.00100	**0.12810**	0.32940	0.06480	**0.32509**	2.50740	0.30000	**0.86183**
	S0->X (RF)	(A0 * !A1 * !S1)	0.01860	0.00100	**0.12162**	0.32940	0.06480	**0.31696**	2.50740	0.30000	**0.85059**
	S1->X (FF)	(!A1 * A3 * S0)	0.01860	0.00100	**0.05779**	0.32940	0.06480	**0.23812**	2.50740	0.30000	**0.75965**
	S1->X (FF)	(!A0 * A2 * !S0)	0.01860	0.00100	**0.05772**	0.32940	0.06480	**0.23800**	2.50740	0.30000	**0.75941**
	S1->X (RF)	(A1 * !A3 * S0)	0.01860	0.00100	**0.07160**	0.32940	0.06480	**0.25370**	2.50740	0.30000	**0.75121**
	S1->X (RF)	(A0 * !A2 * !S0)	0.01860	0.00100	**0.07174**	0.32940	0.06480	**0.25374**	2.50740	0.30000	**0.75134**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	**A0**	0.01860	0.00100	**0.01485**	0.32940	0.06480	**0.01531**	2.50740	0.30000	**0.03045**
	A1	0.01860	0.00100	**0.01521**	0.32940	0.06480	**0.01574**	2.50740	0.30000	**0.03089**
	A2	0.01860	0.00100	**0.01512**	0.32940	0.06480	**0.01558**	2.50740	0.30000	**0.03058**
	A3	0.01860	0.00100	**0.01675**	0.32940	0.06480	**0.01718**	2.50740	0.30000	**0.03227**
	S0	0.01860	0.00100	**0.01170**	0.32940	0.06480	**0.01277**	2.50740	0.30000	**0.02950**
	S1	0.01860	0.00100	**0.00999**	0.32940	0.06480	**0.01189**	2.50740	0.30000	**0.02397**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	**A0**	0.01860	0.00100	**0.02337**	0.32940	0.06480	**0.02404**	2.50740	0.30000	**0.03960**
	A1	0.01860	0.00100	**0.02357**	0.32940	0.06480	**0.02428**	2.50740	0.30000	**0.03992**
	A2	0.01860	0.00100	**0.02349**	0.32940	0.06480	**0.02412**	2.50740	0.30000	**0.03958**
	A3	0.01860	0.00100	**0.01762**	0.32940	0.06480	**0.01818**	2.50740	0.30000	**0.03367**
	S0	0.01860	0.00100	**0.01264**	0.32940	0.06480	**0.01440**	2.50740	0.30000	**0.03106**
	S1	0.01860	0.00100	**0.00696**	0.32940	0.06480	**0.00865**	2.50740	0.30000	**0.02424**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.01812**	0.32940	0.06480	**0.01565**	2.50740	0.30000	**-0.00289**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.01808**	0.32940	0.06480	**0.01565**	2.50740	0.30000	**-0.00301**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01171**	0.32940	0.06480	**0.01277**	2.50740	0.30000	**0.02960**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01170**	0.32940	0.06480	**0.01277**	2.50740	0.30000	**0.02950**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00999**	0.32940	0.06480	**0.01189**	2.50740	0.30000	**0.02397**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.01084**	0.32940	0.06480	**0.01272**	2.50740	0.30000	**0.02420**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00583**	0.32940	0.06480	**0.00734**	2.50740	0.30000	**0.02222**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00586**	0.32940	0.06480	**0.00737**	2.50740	0.30000	**0.02259**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_mux4_1	S0	(A2 * !A3 * S1)	0.01860	0.00100	**0.02617**	0.32940	0.06480	**0.02603**	2.50740	0.30000	**0.00832**
	S0	(A0 * !A1 * !S1)	0.01860	0.00100	**0.02621**	0.32940	0.06480	**0.02642**	2.50740	0.30000	**0.00841**
	S0	(!A2 * A3 * S1)	0.01860	0.00100	**0.01244**	0.32940	0.06480	**0.01382**	2.50740	0.30000	**0.03111**
	S0	(!A0 * A1 * !S1)	0.01860	0.00100	**0.01264**	0.32940	0.06480	**0.01440**	2.50740	0.30000	**0.03106**
	S1	(A1 * !A3 * S0)	0.01860	0.00100	**0.00919**	0.32940	0.06480	**0.01129**	2.50740	0.30000	**0.02278**
	S1	(A0 * !A2 * !S0)	0.01860	0.00100	**0.00919**	0.32940	0.06480	**0.01128**	2.50740	0.30000	**0.02279**
	S1	(!A1 * A3 * S0)	0.01860	0.00100	**0.00696**	0.32940	0.06480	**0.00865**	2.50740	0.30000	**0.02424**
	S1	(!A0 * A2 * !S0)	0.01860	0.00100	**0.00615**	0.32940	0.06480	**0.00782**	2.50740	0.30000	**0.02324**

Passive power(pJ) for S0 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00893**	0.32940	**0.01226**	2.50740	**0.05303**

Passive power(pJ) for S0 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.01202**	0.32940	**0.01600**	2.50740	**0.05708**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.00821**	0.32940	**0.01153**	2.50740	**0.05212**
	(A0 * A1 * !S1)	0.01860	**0.00888**	0.32940	**0.01188**	2.50740	**0.05232**
	(!A2 * !A3 * S1)	0.01860	**0.00893**	0.32940	**0.01226**	2.50740	**0.05303**
	(!A0 * !A1 * !S1)	0.01860	**0.00991**	0.32940	**0.01307**	2.50740	**0.05337**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A2 * A3 * S1)	0.01860	**0.01247**	0.32940	**0.01655**	2.50740	**0.05747**
	(A0 * A1 * !S1)	0.01860	**0.01432**	0.32940	**0.01855**	2.50740	**0.05893**
	(!A2 * !A3 * S1)	0.01860	**0.01202**	0.32940	**0.01600**	2.50740	**0.05708**
	(!A0 * !A1 * !S1)	0.01860	**0.00851**	0.32940	**0.01219**	2.50740	**0.05236**

Passive power(pJ) for S1 rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00505**	0.32940	**0.00711**	2.50740	**0.02946**

Passive power(pJ) for S1 falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	0.01860	**0.00496**	0.32940	**0.00730**	2.50740	**0.02971**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00453**	0.32940	**0.00656**	2.50740	**0.02882**
	(A0 * A2 * !S0)	0.01860	**0.00453**	0.32940	**0.00655**	2.50740	**0.02878**
	(!A1 * !A3 * S0)	0.01860	**0.00506**	0.32940	**0.00711**	2.50740	**0.02942**
	(!A0 * !A2 * !S0)	0.01860	**0.00505**	0.32940	**0.00711**	2.50740	**0.02946**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_mux4_1	(A1 * A3 * S0)	0.01860	**0.00520**	0.32940	**0.00754**	2.50740	**0.02978**
	(A0 * A2 * !S0)	0.01860	**0.00520**	0.32940	**0.00753**	2.50740	**0.02976**
	(!A1 * !A3 * S0)	0.01860	**0.00496**	0.32940	**0.00730**	2.50740	**0.02971**
	(!A0 * !A2 * !S0)	0.01860	**0.00497**	0.32940	**0.00724**	2.50740	**0.02935**

NAND2Bx

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
sg13g2_nand2b_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A_N	B	Y
sg13g2_nand2b_1	0.00243	0.00324	0.30000
sg13g2_nand2b_2	0.00237	0.00599	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2b_1	138.10900	269.63100	373.97200
sg13g2_nand2b_2	270.96300	447.51500	672.23600

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (RR)	0.01860	0.00100	**0.03734**	0.32940	0.06480	**0.21727**	2.50740	0.30000	**0.79690**
	B->Y (FR)	0.01860	0.00100	**0.01929**	0.32940	0.06480	**0.27482**	2.50740	0.30000	**1.51223**
sg13g2_nand2b_2	A_N->Y (RR)	0.01860	0.00100	**0.04860**	0.32940	0.12960	**0.24869**	2.50740	0.60000	**0.86076**
	B->Y (FR)	0.01860	0.00100	**0.01492**	0.32940	0.12960	**0.27080**	2.50740	0.60000	**1.50572**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N->Y (FF)	0.01860	0.00100	**0.04417**	0.32940	0.06480	**0.28290**	2.50740	0.30000	**1.05111**
	B->Y (RF)	0.01860	0.00100	**0.02723**	0.32940	0.06480	**0.32552**	2.50740	0.30000	**1.70667**
sg13g2_nand2b_2	A_N->Y (FF)	0.01860	0.00100	**0.05809**	0.32940	0.12960	**0.32885**	2.50740	0.60000	**1.16575**
	B->Y (RF)	0.01860	0.00100	**0.02059**	0.32940	0.12960	**0.35843**	2.50740	0.60000	**1.93257**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00252**	0.32940	0.06480	**0.00280**	2.50740	0.30000	**0.00164**
	B	0.01860	0.00100	**0.00236**	0.32940	0.06480	**0.00303**	2.50740	0.30000	**0.01015**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.00493**	0.32940	0.12960	**0.00552**	2.50740	0.60000	**0.00439**
	B	0.01860	0.00100	**0.00354**	0.32940	0.12960	**0.00533**	2.50740	0.60000	**0.01853**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2b_1	A_N	0.01860	0.00100	**0.00521**	0.32940	0.06480	**0.00546**	2.50740	0.30000	**0.00494**
	B	0.01860	0.00100	**0.00497**	0.32940	0.06480	**0.00529**	2.50740	0.30000	**0.01072**
sg13g2_nand2b_2	A_N	0.01860	0.00100	**0.01019**	0.32940	0.12960	**0.01082**	2.50740	0.60000	**0.01118**
	B	0.01860	0.00100	**0.00505**	0.32940	0.12960	**0.00639**	2.50740	0.60000	**0.01784**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00476**	0.32940	**0.00632**	2.50740	**0.02500**
sg13g2_nand2b_2	0.01860	**0.00783**	0.32940	**0.00880**	2.50740	**0.02623**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	0.01860	**0.00257**	0.32940	**0.00434**	2.50740	**0.02270**
sg13g2_nand2b_2	0.01860	**0.00761**	0.32940	**0.00896**	2.50740	**0.02637**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00476**	0.32940	**0.00632**	2.50740	**0.02500**
sg13g2_nand2b_2	**!B**	0.01860	**0.00783**	0.32940	**0.00880**	2.50740	**0.02623**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand2b_1	**!B**	0.01860	**0.00257**	0.32940	**0.00434**	2.50740	**0.02270**
sg13g2_nand2b_2	**!B**	0.01860	**0.00761**	0.32940	**0.00896**	2.50740	**0.02637**

NAND2x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand2_1	7.25760
sg13g2_nand2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nand2_1	0.00307	0.00320	0.30000
sg13g2_nand2_2	0.00596	0.00614	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand2_1	79.81350	184.63600	315.66900
sg13g2_nand2_2	159.32400	362.56500	613.98900

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (FR)	0.01860	0.00100	**0.01667**	0.32940	0.06480	**0.27091**	2.50740	0.30000	**1.50551**
	B->Y (FR)	0.01860	0.00100	**0.01959**	0.32940	0.06480	**0.27438**	2.50740	0.30000	**1.51139**
sg13g2_nand2_2	A->Y (FR)	0.01860	0.00100	**0.01505**	0.32940	0.12960	**0.27116**	2.50740	0.60000	**1.50749**
	B->Y (FR)	0.01860	0.00100	**0.01824**	0.32940	0.12960	**0.27479**	2.50740	0.60000	**1.51362**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A->Y (RF)	0.01860	0.00100	**0.02249**	0.32940	0.06480	**0.34855**	2.50740	0.30000	**1.88155**
	B->Y (RF)	0.01860	0.00100	**0.02564**	0.32940	0.06480	**0.32332**	2.50740	0.30000	**1.70150**
sg13g2_nand2_2	A->Y (RF)	0.01860	0.00100	**0.02079**	0.32940	0.12960	**0.35816**	2.50740	0.60000	**1.93141**
	B->Y (RF)	0.01860	0.00100	**0.02461**	0.32940	0.12960	**0.33299**	2.50740	0.60000	**1.74906**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00198**	0.32940	0.06480	**0.00282**	2.50740	0.30000	**0.00977**
	B	0.01860	0.00100	**0.00222**	0.32940	0.06480	**0.00286**	2.50740	0.30000	**0.01009**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00358**	0.32940	0.12960	**0.00533**	2.50740	0.60000	**0.01893**
	B	0.01860	0.00100	**0.00448**	0.32940	0.12960	**0.00582**	2.50740	0.60000	**0.01961**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand2_1	A	0.01860	0.00100	**0.00269**	0.32940	0.06480	**0.00331**	2.50740	0.30000	**0.00942**
	B	0.01860	0.00100	**0.00495**	0.32940	0.06480	**0.00523**	2.50740	0.30000	**0.01078**
sg13g2_nand2_2	A	0.01860	0.00100	**0.00507**	0.32940	0.12960	**0.00635**	2.50740	0.60000	**0.01780**
	B	0.01860	0.00100	**0.00944**	0.32940	0.12960	**0.01015**	2.50740	0.60000	**0.02072**

NAND3B

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	0.00241	0.00319	0.00321	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3b_1	140.64600	315.51300	531.73100

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (RR)	0.01860	0.00100	**0.03916**	0.32940	0.06480	**0.21779**	2.50740	0.30000	**0.79495**
	B->Y (FR)	0.01860	0.00100	**0.02138**	0.32940	0.06480	**0.27682**	2.50740	0.30000	**1.51263**
	C->Y (FR)	0.01860	0.00100	**0.02300**	0.32940	0.06480	**0.27961**	2.50740	0.30000	**1.51597**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N->Y (FF)	0.01860	0.00100	**0.05342**	0.32940	0.06480	**0.37361**	2.50740	0.30000	**1.44225**
	B->Y (RF)	0.01860	0.00100	**0.04022**	0.32940	0.06480	**0.42173**	2.50740	0.30000	**2.14121**
	C->Y (RF)	0.01860	0.00100	**0.04284**	0.32940	0.06480	**0.39932**	2.50740	0.30000	**1.94879**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00273**	0.32940	0.06480	**0.00294**	2.50740	0.30000	**0.00184**
	B	0.01860	0.00100	**0.00263**	0.32940	0.06480	**0.00316**	2.50740	0.30000	**0.00941**
	C	0.01860	0.00100	**0.00286**	0.32940	0.06480	**0.00328**	2.50740	0.30000	**0.00986**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3b_1	A_N	0.01860	0.00100	**0.00669**	0.32940	0.06480	**0.00689**	2.50740	0.30000	**0.00638**
	B	0.01860	0.00100	**0.00644**	0.32940	0.06480	**0.00661**	2.50740	0.30000	**0.01118**
	C	0.01860	0.00100	**0.00841**	0.32940	0.06480	**0.00851**	2.50740	0.30000	**0.01314**

Passive power(pJ) for A_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00475**	0.32940	**0.00631**	2.50740	**0.02495**

Passive power(pJ) for A_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	0.01860	**0.00257**	0.32940	**0.00434**	2.50740	**0.02270**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	(B * !C) + (!B)	0.01860	**0.00475**	0.32940	**0.00631**	2.50740	**0.02495**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nand3b_1	**(B * !C) + (!B)**	0.01860	**0.00257**	0.32940	**0.00434**	2.50740	**0.02270**

NAND3

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand3_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nand3_1	0.00306	0.00322	0.00320	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand3_1	82.39640	230.55900	473.49100

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (FR)	0.01860	0.00100	**0.01882**	0.32940	0.06480	**0.27308**	2.50740	0.30000	**1.50685**
	B->Y (FR)	0.01860	0.00100	**0.02167**	0.32940	0.06480	**0.27663**	2.50740	0.30000	**1.51249**
	C->Y (FR)	0.01860	0.00100	**0.02301**	0.32940	0.06480	**0.27948**	2.50740	0.30000	**1.51637**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A->Y (RF)	0.01860	0.00100	**0.03194**	0.32940	0.06480	**0.43551**	2.50740	0.30000	**2.27835**
	B->Y (RF)	0.01860	0.00100	**0.03851**	0.32940	0.06480	**0.41965**	2.50740	0.30000	**2.13552**
	C->Y (RF)	0.01860	0.00100	**0.04093**	0.32940	0.06480	**0.39696**	2.50740	0.30000	**1.94441**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00219**	0.32940	0.06480	**0.00296**	2.50740	0.30000	**0.00907**
	B	0.01860	0.00100	**0.00243**	0.32940	0.06480	**0.00298**	2.50740	0.30000	**0.00930**
	C	0.01860	0.00100	**0.00269**	0.32940	0.06480	**0.00312**	2.50740	0.30000	**0.00981**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand3_1	A	0.01860	0.00100	**0.00418**	0.32940	0.06480	**0.00465**	2.50740	0.30000	**0.00977**
	B	0.01860	0.00100	**0.00648**	0.32940	0.06480	**0.00663**	2.50740	0.30000	**0.01110**
	C	0.01860	0.00100	**0.00840**	0.32940	0.06480	**0.00846**	2.50740	0.30000	**0.01331**

NAND4

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nand4_1	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nand4_1	0.00306	0.00322	0.00325	0.00322	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nand4_1	85.17730	268.89300	631.43000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (FR)	0.01860	0.00100	**0.02001**	0.32940	0.06480	**0.27426**	2.50740	0.30000	**1.50652**
	B->Y (FR)	0.01860	0.00100	**0.02292**	0.32940	0.06480	**0.27792**	2.50740	0.30000	**1.51170**
	C->Y (FR)	0.01860	0.00100	**0.02443**	0.32940	0.06480	**0.28109**	2.50740	0.30000	**1.51757**
	D->Y (FR)	0.01860	0.00100	**0.02493**	0.32940	0.06480	**0.28357**	2.50740	0.30000	**1.52117**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A->Y (RF)	0.01860	0.00100	**0.04076**	0.32940	0.06480	**0.52103**	2.50740	0.30000	**2.66134**
	B->Y (RF)	0.01860	0.00100	**0.05087**	0.32940	0.06480	**0.51288**	2.50740	0.30000	**2.54433**
	C->Y (RF)	0.01860	0.00100	**0.05649**	0.32940	0.06480	**0.49719**	2.50740	0.30000	**2.38029**
	D->Y (RF)	0.01860	0.00100	**0.05892**	0.32940	0.06480	**0.48406**	2.50740	0.30000	**2.23293**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00229**	0.32940	0.06480	**0.00299**	2.50740	0.30000	**0.00853**
	B	0.01860	0.00100	**0.00255**	0.32940	0.06480	**0.00301**	2.50740	0.30000	**0.00877**
	C	0.01860	0.00100	**0.00283**	0.32940	0.06480	**0.00312**	2.50740	0.30000	**0.00901**
	D	0.01860	0.00100	**0.00306**	0.32940	0.06480	**0.00332**	2.50740	0.30000	**0.00954**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nand4_1	A	0.01860	0.00100	**0.00513**	0.32940	0.06480	**0.00555**	2.50740	0.30000	**0.00986**
	B	0.01860	0.00100	**0.00741**	0.32940	0.06480	**0.00762**	2.50740	0.30000	**0.01127**
	C	0.01860	0.00100	**0.00937**	0.32940	0.06480	**0.00942**	2.50740	0.30000	**0.01328**
	D	0.01860	0.00100	**0.01126**	0.32940	0.06480	**0.01135**	2.50740	0.30000	**0.01503**

NOR2Bx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2b_1	9.07200
sg13g2_nor2b_2	12.70080

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B_N	Y
sg13g2_nor2b_1	0.00311	0.00245	0.30000
sg13g2_nor2b_2	0.00603	0.00288	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2b_1	211.74300	283.29400	337.27700
sg13g2_nor2b_2	368.14000	489.63200	576.44700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (FR)	0.01860	0.00100	**0.02469**	0.32940	0.06480	**0.39142**	2.50740	0.30000	**2.08923**
	B_N->Y (RR)	0.01860	0.00100	**0.05027**	0.32940	0.06480	**0.34673**	2.50740	0.30000	**1.34578**
sg13g2_nor2b_2	A->Y (FR)	0.01860	0.00100	**0.02168**	0.32940	0.12960	**0.39058**	2.50740	0.60000	**2.08717**
	B_N->Y (RR)	0.01860	0.00100	**0.05541**	0.32940	0.12960	**0.36803**	2.50740	0.60000	**1.39901**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A->Y (RF)	0.01860	0.00100	**0.01645**	0.32940	0.06480	**0.26025**	2.50740	0.30000	**1.44770**
	B_N->Y (FF)	0.01860	0.00100	**0.04153**	0.32940	0.06480	**0.20045**	2.50740	0.30000	**0.67134**
sg13g2_nor2b_2	A->Y (RF)	0.01860	0.00100	**0.01517**	0.32940	0.12960	**0.26697**	2.50740	0.60000	**1.48485**
	B_N->Y (FF)	0.01860	0.00100	**0.04901**	0.32940	0.12960	**0.22660**	2.50740	0.60000	**0.73056**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00251**	0.32940	0.06480	**0.00328**	2.50740	0.30000	**0.00965**
	B_N	0.01860	0.00100	**0.00576**	0.32940	0.06480	**0.00584**	2.50740	0.30000	**0.00554**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00501**	0.32940	0.12960	**0.00657**	2.50740	0.60000	**0.01874**
	B_N	0.01860	0.00100	**0.01095**	0.32940	0.12960	**0.01122**	2.50740	0.60000	**0.01102**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2b_1	A	0.01860	0.00100	**0.00213**	0.32940	0.06480	**0.00292**	2.50740	0.30000	**0.00869**
	B_N	0.01860	0.00100	**0.00288**	0.32940	0.06480	**0.00308**	2.50740	0.30000	**0.00206**
sg13g2_nor2b_2	A	0.01860	0.00100	**0.00334**	0.32940	0.12960	**0.00510**	2.50740	0.60000	**0.01638**
	B_N	0.01860	0.00100	**0.00522**	0.32940	0.12960	**0.00570**	2.50740	0.60000	**0.00465**

Passive power(pJ) for B_N rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00486**	0.32940	**0.00627**	2.50740	**0.02459**
sg13g2_nor2b_2	0.01860	**0.00889**	0.32940	**0.01028**	2.50740	**0.03134**

Passive power(pJ) for B_N falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	0.01860	**0.00443**	0.32940	**0.00603**	2.50740	**0.02421**
sg13g2_nor2b_2	0.01860	**0.00764**	0.32940	**0.00926**	2.50740	**0.03023**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00486**	0.32940	**0.00627**	2.50740	**0.02459**
sg13g2_nor2b_2	**A**	0.01860	**0.00889**	0.32940	**0.01028**	2.50740	**0.03134**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_nor2b_1	**A**	0.01860	**0.00443**	0.32940	**0.00603**	2.50740	**0.02421**
sg13g2_nor2b_2	**A**	0.01860	**0.00764**	0.32940	**0.00926**	2.50740	**0.03023**

NOR2x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor2_1	7.25760
sg13g2_nor2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
sg13g2_nor2_1	0.00327	0.00310	0.30000
sg13g2_nor2_2	0.00627	0.00599	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor2_1	153.47700	198.34600	256.17100
sg13g2_nor2_2	306.92100	396.70800	512.40200

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (FR)	0.01860	0.00100	**0.02897**	0.32940	0.06480	**0.36251**	2.50740	0.30000	**1.86348**
	B->Y (FR)	0.01860	0.00100	**0.02476**	0.32940	0.06480	**0.39112**	2.50740	0.30000	**2.08801**
sg13g2_nor2_2	A->Y (FR)	0.01860	0.00100	**0.02739**	0.32940	0.06480	**0.23407**	2.50740	0.30000	**1.20040**
	B->Y (FR)	0.01860	0.00100	**0.02194**	0.32940	0.06480	**0.25594**	2.50740	0.30000	**1.36367**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A->Y (RF)	0.01860	0.00100	**0.01921**	0.32940	0.06480	**0.26381**	2.50740	0.30000	**1.45331**
	B->Y (RF)	0.01860	0.00100	**0.01650**	0.32940	0.06480	**0.26025**	2.50740	0.30000	**1.44740**
sg13g2_nor2_2	A->Y (RF)	0.01860	0.00100	**0.01814**	0.32940	0.06480	**0.18703**	2.50740	0.30000	**1.00027**
	B->Y (RF)	0.01860	0.00100	**0.01494**	0.32940	0.06480	**0.18170**	2.50740	0.30000	**0.99141**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00533**	0.32940	0.06480	**0.00560**	2.50740	0.30000	**0.01120**
	B	0.01860	0.00100	**0.00253**	0.32940	0.06480	**0.00327**	2.50740	0.30000	**0.00968**
sg13g2_nor2_2	A	0.01860	0.00100	**0.01077**	0.32940	0.06480	**0.01163**	2.50740	0.30000	**0.02921**
	B	0.01860	0.00100	**0.00511**	0.32940	0.06480	**0.00735**	2.50740	0.30000	**0.02664**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor2_1	A	0.01860	0.00100	**0.00230**	0.32940	0.06480	**0.00281**	2.50740	0.30000	**0.00884**
	B	0.01860	0.00100	**0.00212**	0.32940	0.06480	**0.00291**	2.50740	0.30000	**0.00863**
sg13g2_nor2_2	A	0.01860	0.00100	**0.00456**	0.32940	0.06480	**0.00596**	2.50740	0.30000	**0.02364**
	B	0.01860	0.00100	**0.00330**	0.32940	0.06480	**0.00531**	2.50740	0.30000	**0.02224**

NOR3x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor3_1	9.07200
sg13g2_nor3_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
sg13g2_nor3_1	0.00325	0.00325	0.00308	0.30000
sg13g2_nor3_2	0.00623	0.00619	0.00593	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor3_1	162.15800	267.51300	395.35200
sg13g2_nor3_2	311.25600	516.05100	751.47000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (FR)	0.01860	0.00100	**0.05071**	0.32940	0.06480	**0.47696**	2.50740	0.30000	**2.25653**
	B->Y (FR)	0.01860	0.00100	**0.04720**	0.32940	0.06480	**0.49792**	2.50740	0.30000	**2.46461**
	C->Y (FR)	0.01860	0.00100	**0.03643**	0.32940	0.06480	**0.51117**	2.50740	0.30000	**2.62981**
sg13g2_nor3_2	A->Y (FR)	0.01860	0.00100	**0.04656**	0.32940	0.12960	**0.47814**	2.50740	0.60000	**2.26362**
	B->Y (FR)	0.01860	0.00100	**0.04331**	0.32940	0.12960	**0.49997**	2.50740	0.60000	**2.47584**
	C->Y (FR)	0.01860	0.00100	**0.03137**	0.32940	0.12960	**0.51206**	2.50740	0.60000	**2.63937**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A->Y (RF)	0.01860	0.00100	**0.02145**	0.32940	0.06480	**0.26306**	2.50740	0.30000	**1.42459**
	B->Y (RF)	0.01860	0.00100	**0.02089**	0.32940	0.06480	**0.26072**	2.50740	0.30000	**1.42340**
	C->Y (RF)	0.01860	0.00100	**0.01809**	0.32940	0.06480	**0.25687**	2.50740	0.30000	**1.41776**
sg13g2_nor3_2	A->Y (RF)	0.01860	0.00100	**0.02041**	0.32940	0.12960	**0.26911**	2.50740	0.60000	**1.45923**
	B->Y (RF)	0.01860	0.00100	**0.01996**	0.32940	0.12960	**0.26637**	2.50740	0.60000	**1.45566**
	C->Y (RF)	0.01860	0.00100	**0.01666**	0.32940	0.12960	**0.26213**	2.50740	0.60000	**1.44975**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.00914**	0.32940	0.06480	**0.00918**	2.50740	0.30000	**0.01430**
	B	0.01860	0.00100	**0.00667**	0.32940	0.06480	**0.00684**	2.50740	0.30000	**0.01156**
	C	0.01860	0.00100	**0.00391**	0.32940	0.06480	**0.00461**	2.50740	0.30000	**0.01017**
sg13g2_nor3_2	A	0.01860	0.00100	**0.01786**	0.32940	0.12960	**0.01799**	2.50740	0.60000	**0.02782**
	B	0.01860	0.00100	**0.01296**	0.32940	0.12960	**0.01338**	2.50740	0.60000	**0.02211**
	C	0.01860	0.00100	**0.00730**	0.32940	0.12960	**0.00887**	2.50740	0.60000	**0.01930**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor3_1	A	0.01860	0.00100	**0.00311**	0.32940	0.06480	**0.00340**	2.50740	0.30000	**0.00899**
	B	0.01860	0.00100	**0.00284**	0.32940	0.06480	**0.00324**	2.50740	0.30000	**0.00866**
	C	0.01860	0.00100	**0.00236**	0.32940	0.06480	**0.00313**	2.50740	0.30000	**0.00821**
sg13g2_nor3_2	A	0.01860	0.00100	**0.00570**	0.32940	0.12960	**0.00625**	2.50740	0.60000	**0.01692**
	B	0.01860	0.00100	**0.00523**	0.32940	0.12960	**0.00602**	2.50740	0.60000	**0.01648**
	C	0.01860	0.00100	**0.00378**	0.32940	0.12960	**0.00544**	2.50740	0.60000	**0.01545**

NOR4x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_nor4_1	10.88640
sg13g2_nor4_2	21.77280

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
sg13g2_nor4_1	0.00322	0.00323	0.00319	0.00301	0.30000
sg13g2_nor4_2	0.00624	0.00617	0.00610	0.00589	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_nor4_1	158.07400	330.20700	496.98900
sg13g2_nor4_2	316.10500	660.42800	994.00800

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (FR)	0.01860	0.00100	**0.07526**	0.32940	0.06480	**0.60726**	2.50740	0.30000	**2.70728**
	B->Y (FR)	0.01860	0.00100	**0.07212**	0.32940	0.06480	**0.61789**	2.50740	0.30000	**2.85811**
	C->Y (FR)	0.01860	0.00100	**0.06335**	0.32940	0.06480	**0.62879**	2.50740	0.30000	**3.03128**
	D->Y (FR)	0.01860	0.00100	**0.04609**	0.32940	0.06480	**0.63033**	2.50740	0.30000	**3.15415**
sg13g2_nor4_2	A->Y (FR)	0.01860	0.00100	**0.07238**	0.32940	0.12960	**0.61269**	2.50740	0.60000	**2.72606**
	B->Y (FR)	0.01860	0.00100	**0.06936**	0.32940	0.12960	**0.62367**	2.50740	0.60000	**2.87637**
	C->Y (FR)	0.01860	0.00100	**0.05966**	0.32940	0.12960	**0.63327**	2.50740	0.60000	**3.05025**
	D->Y (FR)	0.01860	0.00100	**0.04089**	0.32940	0.12960	**0.63368**	2.50740	0.60000	**3.17445**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A->Y (RF)	0.01860	0.00100	**0.02287**	0.32940	0.06480	**0.27320**	2.50740	0.30000	**1.46422**
	B->Y (RF)	0.01860	0.00100	**0.02327**	0.32940	0.06480	**0.27144**	2.50740	0.30000	**1.46331**
	C->Y (RF)	0.01860	0.00100	**0.02234**	0.32940	0.06480	**0.26816**	2.50740	0.30000	**1.45787**
	D->Y (RF)	0.01860	0.00100	**0.01933**	0.32940	0.06480	**0.26403**	2.50740	0.30000	**1.45240**
sg13g2_nor4_2	A->Y (RF)	0.01860	0.00100	**0.02159**	0.32940	0.12960	**0.27343**	2.50740	0.60000	**1.46461**
	B->Y (RF)	0.01860	0.00100	**0.02206**	0.32940	0.12960	**0.27125**	2.50740	0.60000	**1.46158**
	C->Y (RF)	0.01860	0.00100	**0.02115**	0.32940	0.12960	**0.26779**	2.50740	0.60000	**1.45655**
	D->Y (RF)	0.01860	0.00100	**0.01799**	0.32940	0.12960	**0.26310**	2.50740	0.60000	**1.44833**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.01217**	0.32940	0.06480	**0.01202**	2.50740	0.30000	**0.01660**
	B	0.01860	0.00100	**0.00971**	0.32940	0.06480	**0.00965**	2.50740	0.30000	**0.01398**
	C	0.01860	0.00100	**0.00730**	0.32940	0.06480	**0.00734**	2.50740	0.30000	**0.01198**
	D	0.01860	0.00100	**0.00457**	0.32940	0.06480	**0.00512**	2.50740	0.30000	**0.01019**
sg13g2_nor4_2	A	0.01860	0.00100	**0.02461**	0.32940	0.12960	**0.02433**	2.50740	0.60000	**0.03391**
	B	0.01860	0.00100	**0.01979**	0.32940	0.12960	**0.01972**	2.50740	0.60000	**0.02861**
	C	0.01860	0.00100	**0.01500**	0.32940	0.12960	**0.01507**	2.50740	0.60000	**0.02352**
	D	0.01860	0.00100	**0.00932**	0.32940	0.12960	**0.01028**	2.50740	0.60000	**0.02086**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_nor4_1	A	0.01860	0.00100	**0.00361**	0.32940	0.06480	**0.00371**	2.50740	0.30000	**0.00867**
	B	0.01860	0.00100	**0.00344**	0.32940	0.06480	**0.00362**	2.50740	0.30000	**0.00836**
	C	0.01860	0.00100	**0.00302**	0.32940	0.06480	**0.00343**	2.50740	0.30000	**0.00802**
	D	0.01860	0.00100	**0.00246**	0.32940	0.06480	**0.00318**	2.50740	0.30000	**0.00770**
sg13g2_nor4_2	A	0.01860	0.00100	**0.00713**	0.32940	0.12960	**0.00732**	2.50740	0.60000	**0.01724**
	B	0.01860	0.00100	**0.00672**	0.32940	0.12960	**0.00708**	2.50740	0.60000	**0.01656**
	C	0.01860	0.00100	**0.00550**	0.32940	0.12960	**0.00632**	2.50740	0.60000	**0.01552**
	D	0.01860	0.00100	**0.00401**	0.32940	0.12960	**0.00562**	2.50740	0.60000	**0.01456**

O21AI

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_o21ai_1	9.07200

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A1	A2	B1	Y
sg13g2_o21ai_1	0.00365	0.00358	0.00342	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_o21ai_1	170.71000	372.58800	572.04700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (FR)	0.01860	0.00100	**0.04631**	0.32940	0.06480	**0.43430**	2.50740	0.30000	**2.15009**
	A2->Y (FR)	0.01860	0.00100	**0.04055**	0.32940	0.06480	**0.46442**	2.50740	0.30000	**2.41025**
	B1->Y (FR)	0.01860	0.00100	**0.01952**	0.32940	0.06480	**0.30983**	2.50740	0.30000	**1.72276**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1->Y (RF)	0.01860	0.00100	**0.03390**	0.32940	0.06480	**0.32422**	2.50740	0.30000	**1.63579**
	A2->Y (RF)	0.01860	0.00100	**0.02850**	0.32940	0.06480	**0.31726**	2.50740	0.30000	**1.62523**
	B1->Y (RF)	0.01860	0.00100	**0.02260**	0.32940	0.06480	**0.34149**	2.50740	0.30000	**1.82278**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (FR)	(!A1 * A2)	0.01860	0.00100	**0.01952**	0.32940	0.06480	**0.30983**	2.50740	0.30000	**1.72276**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1->Y (RF)	(!A1 * A2)	0.01860	0.00100	**0.02260**	0.32940	0.06480	**0.34149**	2.50740	0.30000	**1.82278**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00633**	0.32940	0.06480	**0.00641**	2.50740	0.30000	**0.01150**
	A2	0.01860	0.00100	**0.00318**	0.32940	0.06480	**0.00363**	2.50740	0.30000	**0.00878**
	B1	0.01860	0.00100	**0.00204**	0.32940	0.06480	**0.00288**	2.50740	0.30000	**0.00978**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	A1	0.01860	0.00100	**0.00582**	0.32940	0.06480	**0.00583**	2.50740	0.30000	**0.01091**
	A2	0.01860	0.00100	**0.00550**	0.32940	0.06480	**0.00594**	2.50740	0.30000	**0.01096**
	B1	0.01860	0.00100	**0.00277**	0.32940	0.06480	**0.00345**	2.50740	0.30000	**0.00981**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00204**	0.32940	0.06480	**0.00288**	2.50740	0.30000	**0.00978**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_o21ai_1	B1	(!A1 * A2)	0.01860	0.00100	**0.00277**	0.32940	0.06480	**0.00345**	2.50740	0.30000	**0.00981**

OR2x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or2_1	9.07200
sg13g2_or2_2	10.88640

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_or2_1	0.00266	0.00247	0.30000
sg13g2_or2_2	0.00265	0.00245	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or2_1	187.53800	238.24900	274.40800
sg13g2_or2_2	266.53600	336.95200	432.22800

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (RR)	0.01860	0.00100	**0.04058**	0.32940	0.06480	**0.22977**	2.50740	0.30000	**0.80799**
	B->X (RR)	0.01860	0.00100	**0.03754**	0.32940	0.06480	**0.21699**	2.50740	0.30000	**0.76893**
sg13g2_or2_2	A->X (RR)	0.01860	0.00100	**0.04781**	0.32940	0.12960	**0.25789**	2.50740	0.60000	**0.87223**
	B->X (RR)	0.01860	0.00100	**0.04500**	0.32940	0.12960	**0.24809**	2.50740	0.60000	**0.83839**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A->X (FF)	0.01860	0.00100	**0.06164**	0.32940	0.06480	**0.22849**	2.50740	0.30000	**0.73759**
	B->X (FF)	0.01860	0.00100	**0.05745**	0.32940	0.06480	**0.23461**	2.50740	0.30000	**0.77159**
sg13g2_or2_2	A->X (FF)	0.01860	0.00100	**0.07984**	0.32940	0.12960	**0.26909**	2.50740	0.60000	**0.81555**
	B->X (FF)	0.01860	0.00100	**0.07585**	0.32940	0.12960	**0.28089**	2.50740	0.60000	**0.85696**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.00742**	0.32940	0.06480	**0.00888**	2.50740	0.30000	**0.02395**
	B	0.01860	0.00100	**0.00723**	0.32940	0.06480	**0.00857**	2.50740	0.30000	**0.02408**
sg13g2_or2_2	A	0.01860	0.00100	**0.01245**	0.32940	0.12960	**0.01414**	2.50740	0.60000	**0.02820**
	B	0.01860	0.00100	**0.01232**	0.32940	0.12960	**0.01394**	2.50740	0.60000	**0.02829**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or2_1	A	0.01860	0.00100	**0.00936**	0.32940	0.06480	**0.01047**	2.50740	0.30000	**0.02525**
	B	0.01860	0.00100	**0.00737**	0.32940	0.06480	**0.00925**	2.50740	0.30000	**0.02533**
sg13g2_or2_2	A	0.01860	0.00100	**0.01488**	0.32940	0.12960	**0.01538**	2.50740	0.60000	**0.03006**
	B	0.01860	0.00100	**0.01286**	0.32940	0.12960	**0.01418**	2.50740	0.60000	**0.02898**

OR3x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or3_1	12.70080
sg13g2_or3_2	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	X
sg13g2_or3_1	0.00281	0.00274	0.00260	0.30000
sg13g2_or3_2	0.00280	0.00273	0.00258	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or3_1	191.97300	284.49700	364.60200
sg13g2_or3_2	271.04100	373.46700	522.49000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (RR)	0.01860	0.00100	**0.04616**	0.32940	0.06480	**0.24900**	2.50740	0.30000	**0.86085**
	B->X (RR)	0.01860	0.00100	**0.04428**	0.32940	0.06480	**0.23960**	2.50740	0.30000	**0.82572**
	C->X (RR)	0.01860	0.00100	**0.04028**	0.32940	0.06480	**0.22617**	2.50740	0.30000	**0.78712**
sg13g2_or3_2	A->X (RR)	0.01860	0.00100	**0.05307**	0.32940	0.12960	**0.27434**	2.50740	0.60000	**0.92297**
	B->X (RR)	0.01860	0.00100	**0.05107**	0.32940	0.12960	**0.26617**	2.50740	0.60000	**0.88924**
	C->X (RR)	0.01860	0.00100	**0.04730**	0.32940	0.12960	**0.25517**	2.50740	0.60000	**0.85596**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A->X (FF)	0.01860	0.00100	**0.08658**	0.32940	0.06480	**0.25421**	2.50740	0.30000	**0.75010**
	B->X (FF)	0.01860	0.00100	**0.08345**	0.32940	0.06480	**0.26158**	2.50740	0.30000	**0.79912**
	C->X (FF)	0.01860	0.00100	**0.07315**	0.32940	0.06480	**0.25951**	2.50740	0.30000	**0.81090**
sg13g2_or3_2	A->X (FF)	0.01860	0.00100	**0.10911**	0.32940	0.12960	**0.29615**	2.50740	0.60000	**0.81969**
	B->X (FF)	0.01860	0.00100	**0.10597**	0.32940	0.12960	**0.30760**	2.50740	0.60000	**0.88025**
	C->X (FF)	0.01860	0.00100	**0.09598**	0.32940	0.12960	**0.30970**	2.50740	0.60000	**0.90172**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.00783**	0.32940	0.06480	**0.00902**	2.50740	0.30000	**0.02463**
	B	0.01860	0.00100	**0.00768**	0.32940	0.06480	**0.00888**	2.50740	0.30000	**0.02399**
	C	0.01860	0.00100	**0.00736**	0.32940	0.06480	**0.00864**	2.50740	0.30000	**0.02409**
sg13g2_or3_2	A	0.01860	0.00100	**0.01290**	0.32940	0.12960	**0.01423**	2.50740	0.60000	**0.02968**
	B	0.01860	0.00100	**0.01275**	0.32940	0.12960	**0.01407**	2.50740	0.60000	**0.02820**
	C	0.01860	0.00100	**0.01246**	0.32940	0.12960	**0.01400**	2.50740	0.60000	**0.02844**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or3_1	A	0.01860	0.00100	**0.01337**	0.32940	0.06480	**0.01393**	2.50740	0.30000	**0.02904**
	B	0.01860	0.00100	**0.01128**	0.32940	0.06480	**0.01199**	2.50740	0.30000	**0.02681**
	C	0.01860	0.00100	**0.00889**	0.32940	0.06480	**0.01045**	2.50740	0.30000	**0.02625**
sg13g2_or3_2	A	0.01860	0.00100	**0.01937**	0.32940	0.12960	**0.01905**	2.50740	0.60000	**0.03317**
	B	0.01860	0.00100	**0.01721**	0.32940	0.12960	**0.01703**	2.50740	0.60000	**0.03082**
	C	0.01860	0.00100	**0.01484**	0.32940	0.12960	**0.01539**	2.50740	0.60000	**0.03000**

OR4x

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_or4_1	14.51520
sg13g2_or4_2	16.32960

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	X
sg13g2_or4_1	0.00281	0.00271	0.00268	0.00257	0.30000
sg13g2_or4_2	0.00278	0.00270	0.00267	0.00256	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_or4_1	194.37500	322.72300	433.56400
sg13g2_or4_2	273.40200	406.69800	591.41600

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (RR)	0.01860	0.00100	**0.04831**	0.32940	0.06480	**0.25951**	2.50740	0.30000	**0.88088**
	B->X (RR)	0.01860	0.00100	**0.04778**	0.32940	0.06480	**0.25257**	2.50740	0.30000	**0.85019**
	C->X (RR)	0.01860	0.00100	**0.04529**	0.32940	0.06480	**0.24205**	2.50740	0.30000	**0.81290**
	D->X (RR)	0.01860	0.00100	**0.04114**	0.32940	0.06480	**0.22862**	2.50740	0.30000	**0.77313**
sg13g2_or4_2	A->X (RR)	0.01860	0.00100	**0.05538**	0.32940	0.12960	**0.28341**	2.50740	0.60000	**0.93417**
	B->X (RR)	0.01860	0.00100	**0.05455**	0.32940	0.12960	**0.27729**	2.50740	0.60000	**0.90928**
	C->X (RR)	0.01860	0.00100	**0.05195**	0.32940	0.12960	**0.26788**	2.50740	0.60000	**0.87588**
	D->X (RR)	0.01860	0.00100	**0.04799**	0.32940	0.12960	**0.25705**	2.50740	0.60000	**0.84406**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A->X (FF)	0.01860	0.00100	**0.12022**	0.32940	0.06480	**0.29673**	2.50740	0.30000	**0.79880**
	B->X (FF)	0.01860	0.00100	**0.11694**	0.32940	0.06480	**0.30061**	2.50740	0.30000	**0.85049**
	C->X (FF)	0.01860	0.00100	**0.10727**	0.32940	0.06480	**0.29920**	2.50740	0.30000	**0.88277**
	D->X (FF)	0.01860	0.00100	**0.09047**	0.32940	0.06480	**0.29155**	2.50740	0.30000	**0.88336**
sg13g2_or4_2	A->X (FF)	0.01860	0.00100	**0.15052**	0.32940	0.12960	**0.34622**	2.50740	0.60000	**0.87256**
	B->X (FF)	0.01860	0.00100	**0.14726**	0.32940	0.12960	**0.35276**	2.50740	0.60000	**0.93298**
	C->X (FF)	0.01860	0.00100	**0.13746**	0.32940	0.12960	**0.35460**	2.50740	0.60000	**0.97610**
	D->X (FF)	0.01860	0.00100	**0.12103**	0.32940	0.12960	**0.35011**	2.50740	0.60000	**0.98481**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.00852**	0.32940	0.06480	**0.00948**	2.50740	0.30000	**0.02415**
	B	0.01860	0.00100	**0.00831**	0.32940	0.06480	**0.00928**	2.50740	0.30000	**0.02336**
	C	0.01860	0.00100	**0.00777**	0.32940	0.06480	**0.00883**	2.50740	0.30000	**0.02244**
	D	0.01860	0.00100	**0.00740**	0.32940	0.06480	**0.00854**	2.50740	0.30000	**0.02264**
sg13g2_or4_2	A	0.01860	0.00100	**0.01361**	0.32940	0.12960	**0.01467**	2.50740	0.60000	**0.02836**
	B	0.01860	0.00100	**0.01339**	0.32940	0.12960	**0.01450**	2.50740	0.60000	**0.02808**
	C	0.01860	0.00100	**0.01284**	0.32940	0.12960	**0.01409**	2.50740	0.60000	**0.02676**
	D	0.01860	0.00100	**0.01248**	0.32940	0.12960	**0.01394**	2.50740	0.60000	**0.02704**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_or4_1	A	0.01860	0.00100	**0.01611**	0.32940	0.06480	**0.01626**	2.50740	0.30000	**0.02969**
	B	0.01860	0.00100	**0.01403**	0.32940	0.06480	**0.01416**	2.50740	0.30000	**0.02760**
	C	0.01860	0.00100	**0.01190**	0.32940	0.06480	**0.01226**	2.50740	0.30000	**0.02559**
	D	0.01860	0.00100	**0.00946**	0.32940	0.06480	**0.01068**	2.50740	0.30000	**0.02479**
sg13g2_or4_2	A	0.01860	0.00100	**0.02308**	0.32940	0.12960	**0.02133**	2.50740	0.60000	**0.03417**
	B	0.01860	0.00100	**0.02099**	0.32940	0.12960	**0.01935**	2.50740	0.60000	**0.03187**
	C	0.01860	0.00100	**0.01885**	0.32940	0.12960	**0.01738**	2.50740	0.60000	**0.03043**
	D	0.01860	0.00100	**0.01646**	0.32940	0.12960	**0.01553**	2.50740	0.60000	**0.02922**

SDFBBP

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfbbp_1	63.50400

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)	
	CLK	D	RESET_B	SCD	SCE	SET_B	Q	Q_N
sg13g2_sdfbbp_1	0.00325	0.00210	0.00187	0.00215	0.00379	0.00563	0.30000	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfbbp_1	1367.12000	1677.40000	1787.78000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	0.01860	0.00100	**0.20294**	0.32940	0.06480	**0.39044**	2.50740	0.30000	**0.95818**
	SET_B->Q (FR)	0.01860	0.00100	**0.08294**	0.32940	0.06480	**0.28312**	2.50740	0.30000	**0.85267**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	0.01860	0.00100	**0.17023**	0.32940	0.06480	**0.34297**	2.50740	0.30000	**0.85595**
	RESET_B->Q (FF)	0.01860	0.00100	**0.14159**	0.32940	0.06480	**0.32354**	2.50740	0.30000	**0.83471**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RR)	SCE	0.01860	0.00100	**0.20294**	0.32940	0.06480	**0.39044**	2.50740	0.30000	**0.95818**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q (RF)	SCE	0.01860	0.00100	**0.17023**	0.32940	0.06480	**0.34297**	2.50740	0.30000	**0.85595**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.14006**	0.32940	0.06480	**0.34530**	2.50740	0.30000	**0.92845**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.11059**	0.32940	0.06480	**0.33106**	2.50740	0.30000	**0.91668**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.16980**	0.32940	0.06480	**0.36820**	2.50740	0.30000	**0.87215**
	SET_B->Q_N (FF)	0.01860	0.00100	**0.05588**	0.32940	0.06480	**0.25970**	2.50740	0.30000	**0.78246**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.14006**	0.32940	0.06480	**0.34530**	2.50740	0.30000	**0.92845**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.16980**	0.32940	0.06480	**0.36820**	2.50740	0.30000	**0.87215**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06699**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08301**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.25088**
	setup	**CLK (R)**	0.01860	0.01860	**0.08314**	1.26300	1.26300	**0.19968**	2.50740	2.50740	**0.26564**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.12143**	2.50740	2.50740	**-0.14758**
	setup	**CLK (R)**	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.14841**	2.50740	2.50740	**0.18004**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.04401**	1.26300	1.26300	**0.07825**	2.50740	2.50740	**0.09150**
	removal	**CLK (R)**	0.01860	0.01860	**-0.02934**	1.26300	1.26300	**-0.06476**	2.50740	2.50740	**-0.07674**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.09583**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.08314**	1.26300	1.26300	**-0.21587**	2.50740	2.50740	**-0.29220**
	setup	CLK (R)	0.01860	0.01860	**0.10025**	1.26300	1.26300	**0.22666**	2.50740	2.50740	**0.30401**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.08803**	1.26300	1.26300	**-0.13222**	2.50740	2.50740	**-0.15643**
	setup	CLK (R)	0.01860	0.01860	**0.12470**	1.26300	1.26300	**0.15920**	2.50740	2.50740	**0.18890**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.19698**	2.50740	2.50740	**-0.27154**
	setup	CLK (R)	0.01860	0.01860	**0.08803**	1.26300	1.26300	**0.22396**	2.50740	2.50740	**0.30401**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	hold	CLK (R)	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.08365**	2.50740	2.50740	**-0.08855**
	setup	CLK (R)	0.01860	0.01860	**0.10270**	1.26300	1.26300	**0.11333**	2.50740	2.50740	**0.12397**

Constraints(ns) for SET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	recovery	CLK (R)	0.01860	0.01860	**0.01223**	1.26300	1.26300	**0.09174**	2.50740	2.50740	**0.25973**
	removal	CLK (R)	0.01860	0.01860	**0.02445**	1.26300	1.26300	**0.07286**	2.50740	2.50740	**0.07379**
	hold	RESET_B (R)	0.01860	0.01860	**-0.05379**	1.26300	1.26300	**-0.15111**	2.50740	2.50740	**-0.21546**
	setup	RESET_B (R)	0.01860	0.01860	**0.06847**	1.26300	1.26300	**0.17269**	2.50740	2.50740	**0.24498**

Constraints(ns) for SET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfbbp_1	**min_pulse_width**	**SET_B ()**	0.01860	0.00000	**0.06058**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02088**	0.32940	0.06480	**0.02231**	2.50740	0.30000	**0.03536**
	SET_B	0.01860	0.00100	**0.03856**	0.32940	0.06480	**0.09695**	2.50740	0.30000	**0.33478**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02027**	0.32940	0.06480	**0.02159**	2.50740	0.30000	**0.03505**
	RESET_B	0.01860	0.00100	**0.04378**	0.32940	0.06480	**0.10085**	2.50740	0.30000	**0.32012**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02088**	0.32940	0.06480	**0.02231**	2.50740	0.30000	**0.03536**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02027**	0.32940	0.06480	**0.02159**	2.50740	0.30000	**0.03505**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02027**	0.32940	0.06480	**0.02168**	2.50740	0.30000	**0.03515**
	RESET_B	0.01860	0.00100	**0.04381**	0.32940	0.06480	**0.10092**	2.50740	0.30000	**0.32052**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	0.01860	0.00100	**0.02088**	0.32940	0.06480	**0.02229**	2.50740	0.30000	**0.03506**
	SET_B	0.01860	0.00100	**0.03858**	0.32940	0.06480	**0.09690**	2.50740	0.30000	**0.33468**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02027**	0.32940	0.06480	**0.02168**	2.50740	0.30000	**0.03515**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfbbp_1	CLK	SCE	0.01860	0.00100	**0.02088**	0.32940	0.06480	**0.02229**	2.50740	0.30000	**0.03506**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01474**	0.32940	**0.01665**	2.50740	**0.04290**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01775**	0.32940	**0.02015**	2.50740	**0.04699**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01407**	0.32940	**0.01596**	2.50740	**0.04227**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01910**	0.32940	**0.02087**	2.50740	**0.04698**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01418**	0.32940	**0.01608**	2.50740	**0.04244**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01443**	0.32940	**0.01632**	2.50740	**0.04263**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01474**	0.32940	**0.01665**	2.50740	**0.04290**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01418**	0.32940	**0.01608**	2.50740	**0.04244**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(RESET_B * SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.01375**	0.32940	**0.01593**	2.50740	**0.04206**
	(RESET_B * SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.02438**	0.32940	**0.02646**	2.50740	**0.05332**
	(RESET_B * !SET_B * Q * !Q_N)	0.01860	**0.01775**	0.32940	**0.02015**	2.50740	**0.04699**
	(RESET_B * !SCD * SCE * SET_B * Q * !Q_N)	0.01860	**0.02641**	0.32940	**0.02885**	2.50740	**0.05574**
	(RESET_B * !SCD * SCE * SET_B * !Q * Q_N)	0.01860	**0.01399**	0.32940	**0.01616**	2.50740	**0.04216**
	(D * RESET_B * !SCE * SET_B * Q * !Q_N)	0.01860	**0.01357**	0.32940	**0.01575**	2.50740	**0.04195**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01369**	0.32940	**0.01588**	2.50740	**0.04188**
	(!D * RESET_B * !SCE * SET_B * !Q * Q_N)	0.01860	**0.01398**	0.32940	**0.01616**	2.50740	**0.04216**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01375**	0.32940	**0.01424**	2.50740	**0.02591**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01407**	0.32940	**0.01469**	2.50740	**0.02627**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	**(!CLK * RESET_B * !SCE * SET_B)**	0.01860	**0.01375**	0.32940	**0.01424**	2.50740	**0.02591**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00646**	0.32940	**0.00680**	2.50740	**0.01723**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	**(!CLK * RESET_B * !SCE * SET_B)**	0.01860	**0.01407**	0.32940	**0.01469**	2.50740	**0.02627**
	(!CLK * RESET_B * !SCE * !SET_B)	0.01860	**0.00575**	0.32940	**0.00627**	2.50740	**0.01675**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01551**	0.32940	**0.01582**	2.50740	**0.02621**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01940**	0.32940	**0.01960**	2.50740	**0.03023**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01551**	0.32940	**0.01582**	2.50740	**0.02621**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00791**	0.32940	**0.00804**	2.50740	**0.01731**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * RESET_B * SCE * SET_B)	0.01860	**0.01940**	0.32940	**0.01960**	2.50740	**0.03023**
	(!CLK * RESET_B * SCE * !SET_B)	0.01860	**0.00863**	0.32940	**0.00883**	2.50740	**0.01827**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01679**	0.32940	**0.01796**	2.50740	**0.03215**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	0.01860	**0.01822**	0.32940	**0.01941**	2.50740	**0.03321**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01679**	0.32940	**0.01796**	2.50740	**0.03215**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02296**	0.32940	**0.02364**	2.50740	**0.03781**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01584**	0.32940	**0.01774**	2.50740	**0.04347**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00785**	0.32940	**0.00955**	2.50740	**0.03419**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfbbp_1	(!CLK * D * RESET_B * !SCD * SET_B)	0.01860	**0.01822**	0.32940	**0.01941**	2.50740	**0.03321**
	(!CLK * D * RESET_B * !SCD * !SET_B)	0.01860	**0.02468**	0.32940	**0.03149**	2.50740	**0.04535**
	(!CLK * !D * RESET_B * SCD * SET_B)	0.01860	**0.01006**	0.32940	**0.03369**	2.50740	**0.05867**
	(!CLK * !D * RESET_B * SCD * !SET_B)	0.01860	**0.00851**	0.32940	**0.01009**	2.50740	**0.03385**

SDFRBPQx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfrbpq_1	63.50400
sg13g2_sdfrbpq_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CLK	D	RESET_B	SCD	SCE	Q
sg13g2_sdfrbpq_1	0.00317	0.00298	0.00541	0.00309	0.00529	0.30000
sg13g2_sdfrbpq_2	0.00317	0.00298	0.00542	0.00309	0.00529	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbpq_1	1388.63000	1531.16000	1662.34000
sg13g2_sdfrbpq_2	1518.80000	1656.57000	1820.19000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	0.01860	0.00100	**0.11799**	0.32940	0.06480	**0.31614**	2.50740	0.30000	**0.87968**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	0.01860	0.00100	**0.13571**	0.32940	0.12960	**0.34562**	2.50740	0.60000	**0.91104**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	0.01860	0.00100	**0.12306**	0.32940	0.06480	**0.30336**	2.50740	0.30000	**0.79597**
	RESET_B->Q (FF)	0.01860	0.00100	**0.06624**	0.32940	0.06480	**0.28343**	2.50740	0.30000	**0.87134**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	0.01860	0.00100	**0.14035**	0.32940	0.12960	**0.33131**	2.50740	0.60000	**0.82254**
	RESET_B->Q (FF)	0.01860	0.00100	**0.08298**	0.32940	0.12960	**0.32384**	2.50740	0.60000	**0.95697**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.11799**	0.32940	0.06480	**0.31614**	2.50740	0.30000	**0.87968**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.11797**	0.32940	0.06480	**0.31622**	2.50740	0.30000	**0.87963**
sg13g2_sdfrbpq_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.13571**	0.32940	0.12960	**0.34562**	2.50740	0.60000	**0.91104**
	CLK->Q (RR)	**!SCE**	0.01860	0.00100	**0.13574**	0.32940	0.12960	**0.34561**	2.50740	0.60000	**0.91088**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.12309**	0.32940	0.06480	**0.30336**	2.50740	0.30000	**0.79597**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.12306**	0.32940	0.06480	**0.30336**	2.50740	0.30000	**0.79597**
sg13g2_sdfrbpq_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.14035**	0.32940	0.12960	**0.33131**	2.50740	0.60000	**0.82254**
	CLK->Q (RF)	**!SCE**	0.01860	0.00100	**0.14035**	0.32940	0.12960	**0.33131**	2.50740	0.60000	**0.82254**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.05417**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06378**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08621**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08301**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.20956**
	setup	**CLK (R)**	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.20508**	2.50740	2.50740	**0.22727**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.20956**
	setup	**CLK (R)**	0.01860	0.01860	**0.12715**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.22727**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.13577**
	setup	**CLK (R)**	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.15381**	2.50740	2.50740	**0.16824**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.13577**
	setup	**CLK (R)**	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.15381**	2.50740	2.50740	**0.16824**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.23746**	2.50740	2.50740	**0.45454**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.18349**	2.50740	2.50740	**-0.27744**
sg13g2_sdfrbpq_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.07825**	1.26300	1.26300	**0.28063**	2.50740	2.50740	**0.64934**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06602**	1.26300	1.26300	**-0.18349**	2.50740	2.50740	**-0.27744**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.07980**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbpq_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.08942**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.20956**
	setup	**CLK (R)**	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.20508**	2.50740	2.50740	**0.22727**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.18619**	2.50740	2.50740	**-0.20956**
	setup	**CLK (R)**	0.01860	0.01860	**0.12715**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.22727**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.13577**
	setup	**CLK (R)**	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.15381**	2.50740	2.50740	**0.16824**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.12412**	2.50740	2.50740	**-0.13872**
	setup	**CLK (R)**	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.15381**	2.50740	2.50740	**0.16824**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.17809**	2.50740	2.50740	**-0.20366**
	setup	**CLK (R)**	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.22137**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10270**	1.26300	1.26300	**-0.17809**	2.50740	2.50740	**-0.20366**
	setup	**CLK (R)**	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.22137**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbpq_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.10626**
	setup	**CLK (R)**	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.13492**	2.50740	2.50740	**0.13872**
sg13g2_sdfrbpq_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.10025**	1.26300	1.26300	**-0.10524**	2.50740	2.50740	**-0.10626**
	setup	**CLK (R)**	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.13492**	2.50740	2.50740	**0.13872**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.02674**	0.32940	0.06480	**0.02903**	2.50740	0.30000	**0.05715**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.03275**	0.32940	0.12960	**0.03460**	2.50740	0.60000	**0.06279**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	0.01860	0.00100	**0.02719**	0.32940	0.06480	**0.03018**	2.50740	0.30000	**0.05731**
	RESET_B	0.01860	0.00100	**0.02504**	0.32940	0.06480	**0.02618**	2.50740	0.30000	**0.04876**
sg13g2_sdfrbpq_2	CLK	0.01860	0.00100	**0.03268**	0.32940	0.12960	**0.03541**	2.50740	0.60000	**0.06253**
	RESET_B	0.01860	0.00100	**0.03050**	0.32940	0.12960	**0.03123**	2.50740	0.60000	**0.05396**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.02674**	0.32940	0.06480	**0.02903**	2.50740	0.30000	**0.05715**
	CLK	!SCE	0.01860	0.00100	**0.01371**	0.32940	0.06480	**0.01411**	2.50740	0.30000	**0.01591**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.03275**	0.32940	0.12960	**0.03460**	2.50740	0.60000	**0.06279**
	CLK	!SCE	0.01860	0.00100	**0.01955**	0.32940	0.12960	**0.01964**	2.50740	0.60000	**0.02101**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbpq_1	CLK	SCE	0.01860	0.00100	**0.02719**	0.32940	0.06480	**0.03018**	2.50740	0.30000	**0.05731**
	CLK	!SCE	0.01860	0.00100	**0.01419**	0.32940	0.06480	**0.01527**	2.50740	0.30000	**0.01585**
sg13g2_sdfrbpq_2	CLK	SCE	0.01860	0.00100	**0.03268**	0.32940	0.12960	**0.03541**	2.50740	0.60000	**0.06253**
	CLK	!SCE	0.01860	0.00100	**0.01951**	0.32940	0.12960	**0.02025**	2.50740	0.60000	**0.02071**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01300**	0.32940	**0.01491**	2.50740	**0.04145**
sg13g2_sdfrbpq_2	0.01860	**0.01317**	0.32940	**0.01516**	2.50740	**0.04182**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.01311**	0.32940	**0.01532**	2.50740	**0.04164**
sg13g2_sdfrbpq_2	0.01860	**0.01334**	0.32940	**0.01560**	2.50740	**0.04189**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.01317**	0.32940	**0.01516**	2.50740	**0.04182**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01291**	0.32940	**0.01485**	2.50740	**0.04150**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01317**	0.32940	**0.01516**	2.50740	**0.04182**
	(!RESET_B * !Q)	0.01860	**0.01300**	0.32940	**0.01491**	2.50740	**0.04145**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01292**	0.32940	**0.01485**	2.50740	**0.04150**
sg13g2_sdfrbpq_2	**(RESET_B * SCD * SCE * Q)**	0.01860	**0.01317**	0.32940	**0.01516**	2.50740	**0.04182**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01291**	0.32940	**0.01485**	2.50740	**0.04150**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01318**	0.32940	**0.01516**	2.50740	**0.04182**
	(!RESET_B * !Q)	0.01860	**0.01332**	0.32940	**0.01523**	2.50740	**0.04177**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01292**	0.32940	**0.01485**	2.50740	**0.04150**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(RESET_B * SCD * SCE * Q)	0.01860	**0.01283**	0.32940	**0.01507**	2.50740	**0.04138**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.02542**	0.32940	**0.02761**	2.50740	**0.05485**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.02316**	0.32940	**0.02574**	2.50740	**0.05280**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01311**	0.32940	**0.01532**	2.50740	**0.04164**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01283**	0.32940	**0.01507**	2.50740	**0.04138**
	(!RESET_B * !Q)	0.01860	**0.01169**	0.32940	**0.01391**	2.50740	**0.04020**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01310**	0.32940	**0.01533**	2.50740	**0.04164**
sg13g2_sdfrbpq_2	(RESET_B * SCD * SCE * Q)	0.01860	**0.01334**	0.32940	**0.01560**	2.50740	**0.04189**
	(RESET_B * SCD * SCE * !Q)	0.01860	**0.02528**	0.32940	**0.02747**	2.50740	**0.05471**
	(RESET_B * !SCD * SCE * Q)	0.01860	**0.02364**	0.32940	**0.02624**	2.50740	**0.05327**
	(RESET_B * !SCD * SCE * !Q)	0.01860	**0.01294**	0.32940	**0.01516**	2.50740	**0.04153**
	(D * RESET_B * !SCE * Q)	0.01860	**0.01334**	0.32940	**0.01560**	2.50740	**0.04189**
	(!RESET_B * !Q)	0.01860	**0.01202**	0.32940	**0.01423**	2.50740	**0.04052**
	(!D * RESET_B * !SCE * !Q)	0.01860	**0.01293**	0.32940	**0.01516**	2.50740	**0.04153**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02540**	0.32940	**0.02664**	2.50740	**0.04805**
sg13g2_sdfrbpq_2	0.01860	**0.02737**	0.32940	**0.02861**	2.50740	**0.05003**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02346**	0.32940	**0.02534**	2.50740	**0.04777**
sg13g2_sdfrbpq_2	0.01860	**0.02466**	0.32940	**0.02653**	2.50740	**0.04896**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02540**	0.32940	**0.02664**	2.50740	**0.04805**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02737**	0.32940	**0.02861**	2.50740	**0.05003**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02346**	0.32940	**0.02534**	2.50740	**0.04777**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02466**	0.32940	**0.02653**	2.50740	**0.04896**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02558**	0.32940	**0.02678**	2.50740	**0.04823**
sg13g2_sdfrbpq_2	0.01860	**0.02754**	0.32940	**0.02874**	2.50740	**0.05021**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.02356**	0.32940	**0.02546**	2.50740	**0.04799**
sg13g2_sdfrbpq_2	0.01860	**0.02484**	0.32940	**0.02676**	2.50740	**0.04929**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.02558**	0.32940	**0.02678**	2.50740	**0.04823**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.02754**	0.32940	**0.02874**	2.50740	**0.05021**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.02356**	0.32940	**0.02546**	2.50740	**0.04799**
sg13g2_sdfrbpq_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.02484**	0.32940	**0.02676**	2.50740	**0.04929**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.03105**	0.32940	**0.03324**	2.50740	**0.07113**
sg13g2_sdfrbpq_2	0.01860	**0.03102**	0.32940	**0.03322**	2.50740	**0.07111**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	0.01860	**0.03652**	0.32940	**0.05391**	2.50740	**0.09202**
sg13g2_sdfrbpq_2	0.01860	**0.03680**	0.32940	**0.05421**	2.50740	**0.09229**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.02810**	0.32940	**0.02932**	2.50740	**0.04798**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03105**	0.32940	**0.03324**	2.50740	**0.07113**
sg13g2_sdfrbpq_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.02842**	0.32940	**0.02964**	2.50740	**0.04830**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03102**	0.32940	**0.03322**	2.50740	**0.07111**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbpq_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.03179**	0.32940	**0.03328**	2.50740	**0.05187**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03652**	0.32940	**0.05391**	2.50740	**0.09202**
sg13g2_sdfrbpq_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.03177**	0.32940	**0.03326**	2.50740	**0.05185**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03680**	0.32940	**0.05421**	2.50740	**0.09229**

SDFRBPx

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_sdfrbp_1	68.94720
sg13g2_sdfrbp_2	72.57600

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CLK	D	RESET_B	SCD	SCE	Q	Q_N
sg13g2_sdfrbp_1	0.00317	0.00298	0.00541	0.00309	0.00529	0.30000	0.30000
sg13g2_sdfrbp_2	0.00317	0.00298	0.00572	0.00309	0.00529	0.60000	0.60000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sdfrbp_1	1537.59000	1733.55000	1836.66000
sg13g2_sdfrbp_2	1774.48000	1970.40000	2073.50000

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	0.01860	0.00100	**0.12774**	0.32940	0.06480	**0.31663**	2.50740	0.30000	**0.90642**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	0.01860	0.00100	**0.16238**	0.32940	0.12960	**0.34737**	2.50740	0.60000	**0.94135**

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	0.01860	0.00100	**0.11880**	0.32940	0.06480	**0.28855**	2.50740	0.30000	**0.78204**
	RESET_B->Q (FF)	0.01860	0.00100	**0.16277**	0.32940	0.06480	**0.36552**	2.50740	0.30000	**0.96558**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	0.01860	0.00100	**0.14477**	0.32940	0.12960	**0.31517**	2.50740	0.60000	**0.81324**
	RESET_B->Q (FF)	0.01860	0.00100	**0.18954**	0.32940	0.12960	**0.39274**	2.50740	0.60000	**0.99849**

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.12774**	0.32940	0.06480	**0.31663**	2.50740	0.30000	**0.90642**
sg13g2_sdfrbp_2	**CLK->Q (RR)**	**SCE**	0.01860	0.00100	**0.16238**	0.32940	0.12960	**0.34737**	2.50740	0.60000	**0.94135**

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.11880**	0.32940	0.06480	**0.28855**	2.50740	0.30000	**0.78204**
sg13g2_sdfrbp_2	**CLK->Q (RF)**	**SCE**	0.01860	0.00100	**0.14477**	0.32940	0.12960	**0.31517**	2.50740	0.60000	**0.81324**

Delay(ns) to Q_N rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	0.01860	0.00100	**0.09139**	0.32940	0.06480	**0.29584**	2.50740	0.30000	**0.85608**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.13575**	0.32940	0.06480	**0.37135**	2.50740	0.30000	**1.03973**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	0.01860	0.00100	**0.09641**	0.32940	0.12960	**0.30933**	2.50740	0.60000	**0.87177**
	RESET_B->Q_N (FR)	0.01860	0.00100	**0.14221**	0.32940	0.12960	**0.38559**	2.50740	0.60000	**1.05618**

Delay(ns) to Q_N falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	0.01860	0.00100	**0.09648**	0.32940	0.06480	**0.30085**	2.50740	0.30000	**0.82791**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	0.01860	0.00100	**0.10677**	0.32940	0.12960	**0.32211**	2.50740	0.60000	**0.85278**

Delay(ns) to Q_N rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.09139**	0.32940	0.06480	**0.29584**	2.50740	0.30000	**0.85608**
sg13g2_sdfrbp_2	CLK->Q_N (RR)	SCE	0.01860	0.00100	**0.09641**	0.32940	0.12960	**0.30933**	2.50740	0.60000	**0.87177**

Delay(ns) to Q_N falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.09648**	0.32940	0.06480	**0.30085**	2.50740	0.30000	**0.82791**
sg13g2_sdfrbp_2	CLK->Q_N (RF)	SCE	0.01860	0.00100	**0.10677**	0.32940	0.12960	**0.32211**	2.50740	0.60000	**0.85278**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.07339**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.08942**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.18349**	2.50740	2.50740	**-0.20956**
	setup	**CLK (R)**	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.22432**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.18079**	2.50740	2.50740	**-0.20661**
	setup	**CLK (R)**	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.22432**

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09047**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.14167**
	setup	**CLK (R)**	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.15651**	2.50740	2.50740	**0.17119**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09047**	1.26300	1.26300	**-0.12952**	2.50740	2.50740	**-0.14463**
	setup	**CLK (R)**	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.15651**	2.50740	2.50740	**0.17119**

Constraints(ns) for RESET_B rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**recovery**	**CLK (R)**	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28335**
	removal	**CLK (R)**	0.01860	0.01860	**-0.06847**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.28040**
sg13g2_sdfrbp_2	**recovery**	**CLK (R)**	0.01860	0.01860	**0.08069**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.28335**
	removal	**CLK (R)**	0.01860	0.01860	**-0.07091**	1.26300	1.26300	**-0.18889**	2.50740	2.50740	**-0.28040**

Constraints(ns) for RESET_B falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**
sg13g2_sdfrbp_2	**min_pulse_width**	**RESET_B ()**	0.01860	0.00000	**0.07660**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for SCD rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.18349**	2.50740	2.50740	**-0.20956**
	setup	**CLK (R)**	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.22432**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.18349**	2.50740	2.50740	**-0.20661**
	setup	**CLK (R)**	0.01860	0.01860	**0.12959**	1.26300	1.26300	**0.20238**	2.50740	2.50740	**0.22727**

Constraints(ns) for SCD falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.08803**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.14463**
	setup	**CLK (R)**	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.15651**	2.50740	2.50740	**0.17119**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.08803**	1.26300	1.26300	**-0.12682**	2.50740	2.50740	**-0.14463**
	setup	**CLK (R)**	0.01860	0.01860	**0.13693**	1.26300	1.26300	**0.15651**	2.50740	2.50740	**0.17119**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09781**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.20366**
	setup	**CLK (R)**	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.21841**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09536**	1.26300	1.26300	**-0.17539**	2.50740	2.50740	**-0.20070**
	setup	**CLK (R)**	0.01860	0.01860	**0.13204**	1.26300	1.26300	**0.19428**	2.50740	2.50740	**0.22137**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_sdfrbp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.10794**	2.50740	2.50740	**-0.11511**
	setup	**CLK (R)**	0.01860	0.01860	**0.14182**	1.26300	1.26300	**0.13762**	2.50740	2.50740	**0.13872**
sg13g2_sdfrbp_2	**hold**	**CLK (R)**	0.01860	0.01860	**-0.09292**	1.26300	1.26300	**-0.10794**	2.50740	2.50740	**-0.11511**
	setup	**CLK (R)**	0.01860	0.01860	**0.14182**	1.26300	1.26300	**0.13762**	2.50740	2.50740	**0.13872**

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.03777**	0.32940	0.06480	**0.09593**	2.50740	0.30000	**0.32858**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.04789**	0.32940	0.12960	**0.16229**	2.50740	0.60000	**0.59923**

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.03806**	0.32940	0.06480	**0.09697**	2.50740	0.30000	**0.32860**
	RESET_B	0.01860	0.00100	**0.03951**	0.32940	0.06480	**0.09733**	2.50740	0.30000	**0.32958**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.04931**	0.32940	0.12960	**0.16503**	2.50740	0.60000	**0.60127**
	RESET_B	0.01860	0.00100	**0.06086**	0.32940	0.12960	**0.17435**	2.50740	0.60000	**0.60143**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.03777**	0.32940	0.06480	**0.09593**	2.50740	0.30000	**0.32858**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.04789**	0.32940	0.12960	**0.16229**	2.50740	0.60000	**0.59923**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.03806**	0.32940	0.06480	**0.09697**	2.50740	0.30000	**0.32860**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.04931**	0.32940	0.12960	**0.16503**	2.50740	0.60000	**0.60127**

Internal switching power(pJ) to Q_N rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.03807**	0.32940	0.06480	**0.09709**	2.50740	0.30000	**0.32876**
	RESET_B	0.01860	0.00100	**0.03949**	0.32940	0.06480	**0.09745**	2.50740	0.30000	**0.33016**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.04934**	0.32940	0.12960	**0.16522**	2.50740	0.60000	**0.60192**
	RESET_B	0.01860	0.00100	**0.06086**	0.32940	0.12960	**0.17455**	2.50740	0.60000	**0.60215**

Internal switching power(pJ) to Q_N falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	0.01860	0.00100	**0.03776**	0.32940	0.06480	**0.09588**	2.50740	0.30000	**0.32809**
sg13g2_sdfrbp_2	**CLK**	0.01860	0.00100	**0.04794**	0.32940	0.12960	**0.16228**	2.50740	0.60000	**0.59855**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.03807**	0.32940	0.06480	**0.09709**	2.50740	0.30000	**0.32876**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.04934**	0.32940	0.12960	**0.16522**	2.50740	0.60000	**0.60192**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_sdfrbp_1	**CLK**	**SCE**	0.01860	0.00100	**0.03776**	0.32940	0.06480	**0.09588**	2.50740	0.30000	**0.32809**
sg13g2_sdfrbp_2	**CLK**	**SCE**	0.01860	0.00100	**0.04794**	0.32940	0.12960	**0.16228**	2.50740	0.60000	**0.59855**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01295**	0.32940	**0.01484**	2.50740	**0.04145**
sg13g2_sdfrbp_2	0.01860	**0.01296**	0.32940	**0.01484**	2.50740	**0.04142**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.01314**	0.32940	**0.01533**	2.50740	**0.04165**
sg13g2_sdfrbp_2	0.01860	**0.01315**	0.32940	**0.01534**	2.50740	**0.04165**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.01322**	0.32940	**0.01517**	2.50740	**0.04181**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01295**	0.32940	**0.01484**	2.50740	**0.04145**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01322**	0.32940	**0.01517**	2.50740	**0.04181**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01252**	0.32940	**0.01438**	2.50740	**0.04089**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01295**	0.32940	**0.01484**	2.50740	**0.04145**
sg13g2_sdfrbp_2	(RESET_B * SCD * SCE * Q * !Q_N)	0.01860	**0.01324**	0.32940	**0.01517**	2.50740	**0.04181**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01296**	0.32940	**0.01484**	2.50740	**0.04142**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01324**	0.32940	**0.01517**	2.50740	**0.04181**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01253**	0.32940	**0.01439**	2.50740	**0.04089**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01296**	0.32940	**0.01484**	2.50740	**0.04142**

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

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

sg13g2_sdfrbp_1	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.01287**	0.32940	**0.01508**	2.50740	**0.04138**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.02546**	0.32940	**0.02761**	2.50740	**0.05484**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.02318**	0.32940	**0.02575**	2.50740	**0.05279**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01313**	0.32940	**0.01533**	2.50740	**0.04165**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01288**	0.32940	**0.01508**	2.50740	**0.04138**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01119**	0.32940	**0.01338**	2.50740	**0.03968**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01314**	0.32940	**0.01533**	2.50740	**0.04165**
sg13g2_sdfrbp_2	**(RESET_B * SCD * SCE * Q * !Q_N)**	0.01860	**0.01290**	0.32940	**0.01508**	2.50740	**0.04138**
	(RESET_B * SCD * SCE * !Q * Q_N)	0.01860	**0.02546**	0.32940	**0.02761**	2.50740	**0.05483**
	(RESET_B * !SCD * SCE * Q * !Q_N)	0.01860	**0.02320**	0.32940	**0.02575**	2.50740	**0.05278**
	(RESET_B * !SCD * SCE * !Q * Q_N)	0.01860	**0.01315**	0.32940	**0.01534**	2.50740	**0.04165**
	(D * RESET_B * !SCE * Q * !Q_N)	0.01860	**0.01290**	0.32940	**0.01508**	2.50740	**0.04138**
	(!RESET_B * !Q * Q_N)	0.01860	**0.01120**	0.32940	**0.01338**	2.50740	**0.03967**
	(!D * RESET_B * !SCE * !Q * Q_N)	0.01860	**0.01315**	0.32940	**0.01533**	2.50740	**0.04165**

Passive power(pJ) for D rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02539**	0.32940	**0.02664**	2.50740	**0.04805**
sg13g2_sdfrbp_2	0.01860	**0.02513**	0.32940	**0.02638**	2.50740	**0.04780**

Passive power(pJ) for D falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02439**	0.32940	**0.02626**	2.50740	**0.04869**
sg13g2_sdfrbp_2	0.01860	**0.02439**	0.32940	**0.02626**	2.50740	**0.04869**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02539**	0.32940	**0.02664**	2.50740	**0.04805**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02513**	0.32940	**0.02638**	2.50740	**0.04780**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02439**	0.32940	**0.02626**	2.50740	**0.04869**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * !SCE)**	0.01860	**0.02439**	0.32940	**0.02626**	2.50740	**0.04869**

Passive power(pJ) for SCD rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02558**	0.32940	**0.02678**	2.50740	**0.04823**
sg13g2_sdfrbp_2	0.01860	**0.02555**	0.32940	**0.02676**	2.50740	**0.04821**

Passive power(pJ) for SCD falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.02264**	0.32940	**0.02453**	2.50740	**0.04706**
sg13g2_sdfrbp_2	0.01860	**0.02265**	0.32940	**0.02453**	2.50740	**0.04706**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.02558**	0.32940	**0.02678**	2.50740	**0.04823**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.02555**	0.32940	**0.02676**	2.50740	**0.04821**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * RESET_B * SCE)**	0.01860	**0.02264**	0.32940	**0.02453**	2.50740	**0.04706**
sg13g2_sdfrbp_2	**(!CLK * RESET_B * SCE)**	0.01860	**0.02265**	0.32940	**0.02453**	2.50740	**0.04706**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.03105**	0.32940	**0.03324**	2.50740	**0.07112**
sg13g2_sdfrbp_2	0.01860	**0.03104**	0.32940	**0.03322**	2.50740	**0.07110**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	0.01860	**0.03598**	0.32940	**0.05337**	2.50740	**0.09146**
sg13g2_sdfrbp_2	0.01860	**0.03598**	0.32940	**0.05333**	2.50740	**0.09143**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.02755**	0.32940	**0.02879**	2.50740	**0.04745**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03105**	0.32940	**0.03324**	2.50740	**0.07112**
sg13g2_sdfrbp_2	**(!CLK * D * RESET_B * !SCD)**	0.01860	**0.02755**	0.32940	**0.02878**	2.50740	**0.04744**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03104**	0.32940	**0.03322**	2.50740	**0.07110**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sdfrbp_1	(!CLK * D * RESET_B * !SCD)	0.01860	**0.03179**	0.32940	**0.03328**	2.50740	**0.05187**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03598**	0.32940	**0.05337**	2.50740	**0.09146**
sg13g2_sdfrbp_2	(!CLK * D * RESET_B * !SCD)	0.01860	**0.03177**	0.32940	**0.03326**	2.50740	**0.05185**
	(!CLK * !D * RESET_B * SCD)	0.01860	**0.03598**	0.32940	**0.05333**	2.50740	**0.09143**

SIGHOLD

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	0.02620	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_sighold	126.96700	404.04900	681.13200

Passive Power Information

Passive power(pJ) for SH rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.00686**	0.32940	**0.01777**	2.50740	**0.09724**

Passive power(pJ) for SH falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_sighold	0.01860	**0.00537**	0.32940	**0.01447**	2.50740	**0.10854**

SLGCP

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_slgcp_1	30.84480

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CLK	GATE	SCE	GCLK
sg13g2_slgcp_1	0.00539	0.00208	0.00251	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_slgcp_1	816.54300	876.63700	941.94700

Delay Information

Delay(ns) to GCLK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (RR)**	0.01860	0.00100	**0.05314**	0.32940	0.06480	**0.23326**	2.50740	0.30000	**0.81693**

Delay(ns) to GCLK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	**CLK->GCLK (FF)**	0.01860	0.00100	**0.04281**	0.32940	0.06480	**0.21342**	2.50740	0.30000	**0.70845**

Constraint Information

Constraints(ns) for CLK rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.15030**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for CLK falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**min_pulse_width**	**CLK ()**	0.01860	0.00000	**0.06699**	1.26300	0.00000	**2.08496**	2.50740	0.00000	**4.13818**

Constraints(ns) for GATE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.02765**	1.26300	1.26300	**-0.12856**	2.50740	2.50740	**-0.18168**
	setup	**CLK (R)**	0.01860	0.01860	**0.04386**	1.26300	1.26300	**0.18654**	2.50740	2.50740	**0.26038**

Constraints(ns) for GATE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04262**	1.26300	1.26300	**-0.12579**	2.50740	2.50740	**-0.17746**
	setup	**CLK (R)**	0.01860	0.01860	**0.07228**	1.26300	1.26300	**0.15754**	2.50740	2.50740	**0.22115**

Constraints(ns) for SCE rising :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.03116**	1.26300	1.26300	**-0.15377**	2.50740	2.50740	**-0.21903**
	setup	**CLK (R)**	0.01860	0.01860	**0.04716**	1.26300	1.26300	**0.20670**	2.50740	2.50740	**0.29931**

Constraints(ns) for SCE falling :

Cell Name	Timing Check	Ref Pin(trans)	Constraint(ns)								
			Input Slew(ns)	Ref Slew(ns)	First	Input Slew(ns)	Ref Slew(ns)	Mid	Input Slew(ns)	Ref Slew(ns)	Last
sg13g2_slgcp_1	**hold**	**CLK (R)**	0.01860	0.01860	**-0.04676**	1.26300	1.26300	**-0.09892**	2.50740	2.50740	**-0.13675**
	setup	**CLK (R)**	0.01860	0.01860	**0.07631**	1.26300	1.26300	**0.12823**	2.50740	2.50740	**0.17059**

Power Information

Internal switching power(pJ) to GCLK rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.01171**	0.32940	0.06480	**0.01256**	2.50740	0.30000	**0.02921**

Internal switching power(pJ) to GCLK falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_slgcp_1	CLK	0.01860	0.00100	**0.00726**	0.32940	0.06480	**0.00942**	2.50740	0.30000	**0.02688**

Passive power(pJ) for CLK rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.00842**	0.32940	**0.01014**	2.50740	**0.03290**

Passive power(pJ) for CLK falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.00882**	0.32940	**0.01085**	2.50740	**0.03396**

Passive power(pJ) for GATE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.02318**	0.32940	**0.02477**	2.50740	**0.04261**

Passive power(pJ) for GATE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.02351**	0.32940	**0.03859**	2.50740	**0.05638**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.02318**	0.32940	**0.02477**	2.50740	**0.04261**

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

Cell Name	When	Power(pJ)					
		Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	**!CLK**	0.01860	**0.02351**	0.32940	**0.03859**	2.50740	**0.05638**

Passive power(pJ) for SCE rising :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.01286**	0.32940	**0.01391**	2.50740	**0.03142**

Passive power(pJ) for SCE falling :

Cell Name	Power(pJ)					
	Slew(ns)	First	Slew(ns)	Mid	Slew(ns)	Last
sg13g2_slgcp_1	0.01860	**0.02440**	0.32940	**0.03742**	2.50740	**0.05390**

TIEHI

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

Footprint

Cell Name	Area
sg13g2_tiehi	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_HI
sg13g2_tiehi	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tiehi	230.88300	230.88300	230.88300

TIELO

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

Footprint

Cell Name	Area
sg13g2_tielo	7.25760

Pin Capacitance Information

Cell Name	Max Cap(pf)
	L_LO
sg13g2_tielo	-

Leakage Information

Cell Name	Leakage(pW)		
	Min.	**Avg**	**Max.**
sg13g2_tielo	246.50300	246.50300	246.50300

XNOR2

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	0.00613	0.00544	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xnor2_1	260.33800	440.21100	585.62600

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-R)	0.01860	0.00100	**0.03712**	0.32940	0.06480	**0.37286**	2.50740	0.30000	**1.87389**
	B->Y (-R)	0.01860	0.00100	**0.03240**	0.32940	0.06480	**0.40034**	2.50740	0.30000	**2.09602**

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (-F)	0.01860	0.00100	**0.03535**	0.32940	0.06480	**0.33590**	2.50740	0.30000	**1.71972**
	B->Y (-F)	0.01860	0.00100	**0.03005**	0.32940	0.06480	**0.32918**	2.50740	0.30000	**1.70752**

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (RR)	B	0.01860	0.00100	**0.05149**	0.32940	0.06480	**0.23132**	2.50740	0.30000	**0.81379**
	A->Y (FR)	!B	0.01860	0.00100	**0.03712**	0.32940	0.06480	**0.37286**	2.50740	0.30000	**1.87389**
	B->Y (RR)	A	0.01860	0.00100	**0.04834**	0.32940	0.06480	**0.23359**	2.50740	0.30000	**0.82574**
	B->Y (FR)	!A	0.01860	0.00100	**0.03240**	0.32940	0.06480	**0.40034**	2.50740	0.30000	**2.09602**

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A->Y (FF)	B	0.01860	0.00100	**0.05017**	0.32940	0.06480	**0.30087**	2.50740	0.30000	**1.09280**
	A->Y (RF)	!B	0.01860	0.00100	**0.03535**	0.32940	0.06480	**0.33590**	2.50740	0.30000	**1.71972**
	B->Y (FF)	A	0.01860	0.00100	**0.05062**	0.32940	0.06480	**0.29158**	2.50740	0.30000	**1.07047**
	B->Y (RF)	!A	0.01860	0.00100	**0.03005**	0.32940	0.06480	**0.32918**	2.50740	0.30000	**1.70752**

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00965**	0.32940	0.06480	**0.01080**	2.50740	0.30000	**0.02764**
	B	0.01860	0.00100	**0.00982**	0.32940	0.06480	**0.01132**	2.50740	0.30000	**0.02872**

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	0.01860	0.00100	**0.00857**	0.32940	0.06480	**0.01036**	2.50740	0.30000	**0.02835**
	B	0.01860	0.00100	**0.00910**	0.32940	0.06480	**0.00946**	2.50740	0.30000	**0.02773**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.00965**	0.32940	0.06480	**0.01080**	2.50740	0.30000	**0.02764**
	A	!B	0.01860	0.00100	**0.00606**	0.32940	0.06480	**0.00604**	2.50740	0.30000	**0.01100**
	B	A	0.01860	0.00100	**0.00982**	0.32940	0.06480	**0.01132**	2.50740	0.30000	**0.02872**
	B	!A	0.01860	0.00100	**0.00391**	0.32940	0.06480	**0.00444**	2.50740	0.30000	**0.01013**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xnor2_1	A	B	0.01860	0.00100	**0.00857**	0.32940	0.06480	**0.01036**	2.50740	0.30000	**0.02835**
	A	!B	0.01860	0.00100	**0.00597**	0.32940	0.06480	**0.00601**	2.50740	0.30000	**0.01065**
	B	A	0.01860	0.00100	**0.00910**	0.32940	0.06480	**0.00946**	2.50740	0.30000	**0.02773**
	B	!A	0.01860	0.00100	**0.00479**	0.32940	0.06480	**0.00510**	2.50740	0.30000	**0.00964**

XOR2

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

Truth Table

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

Footprint

Cell Name	Area
sg13g2_xor2_1	14.51520

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	X
sg13g2_xor2_1	0.00625	0.00549	0.30000

Leakage Information

Cell Name	Leakage(pW)		
	Min.	Avg	Max.
sg13g2_xor2_1	333.21000	407.77100	475.68000

Delay Information

Delay(ns) to X rising :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-R)	0.01860	0.00100	**0.04040**	0.32940	0.06480	**0.37707**	2.50740	0.30000	**1.88220**
	B->X (-R)	0.01860	0.00100	**0.03436**	0.32940	0.06480	**0.37009**	2.50740	0.30000	**1.87166**

Delay(ns) to X falling :

Cell Name	Timing Arc(Dir)	Delay(ns)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (-F)	0.01860	0.00100	**0.03274**	0.32940	0.06480	**0.33250**	2.50740	0.30000	**1.70977**
	B->X (-F)	0.01860	0.00100	**0.02927**	0.32940	0.06480	**0.35747**	2.50740	0.30000	**1.89048**

Delay(ns) to X rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (RR)	!B	0.01860	0.00100	**0.05049**	0.32940	0.06480	**0.35779**	2.50740	0.30000	**1.37953**
	A->X (FR)	B	0.01860	0.00100	**0.04040**	0.32940	0.06480	**0.37707**	2.50740	0.30000	**1.88220**
	B->X (RR)	!A	0.01860	0.00100	**0.05167**	0.32940	0.06480	**0.34631**	2.50740	0.30000	**1.34298**
	B->X (FR)	A	0.01860	0.00100	**0.03436**	0.32940	0.06480	**0.37009**	2.50740	0.30000	**1.87166**

Delay(ns) to X falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A->X (FF)	!B	0.01860	0.00100	**0.05852**	0.32940	0.06480	**0.21887**	2.50740	0.30000	**0.69795**
	A->X (RF)	B	0.01860	0.00100	**0.03274**	0.32940	0.06480	**0.33250**	2.50740	0.30000	**1.70977**
	B->X (FF)	!A	0.01860	0.00100	**0.05426**	0.32940	0.06480	**0.22290**	2.50740	0.30000	**0.72275**
	B->X (RF)	A	0.01860	0.00100	**0.02927**	0.32940	0.06480	**0.35747**	2.50740	0.30000	**1.89048**

Power Information

Internal switching power(pJ) to X rising :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.00841**	0.32940	0.06480	**0.00986**	2.50740	0.30000	**0.02716**
	B	0.01860	0.00100	**0.00895**	0.32940	0.06480	**0.00926**	2.50740	0.30000	**0.02688**

Internal switching power(pJ) to X falling :

Cell Name	Input	Power(pJ)								
		Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	0.01860	0.00100	**0.01049**	0.32940	0.06480	**0.01176**	2.50740	0.30000	**0.02841**
	B	0.01860	0.00100	**0.00964**	0.32940	0.06480	**0.01137**	2.50740	0.30000	**0.02888**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.00648**	0.32940	0.06480	**0.00652**	2.50740	0.30000	**0.01150**
	A	!B	0.01860	0.00100	**0.00841**	0.32940	0.06480	**0.00986**	2.50740	0.30000	**0.02716**
	B	A	0.01860	0.00100	**0.00504**	0.32940	0.06480	**0.00526**	2.50740	0.30000	**0.00988**
	B	!A	0.01860	0.00100	**0.00895**	0.32940	0.06480	**0.00926**	2.50740	0.30000	**0.02688**

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

Cell Name	Input	When	Power(pJ)								
			Slew(ns)	Load(pf)	First	Slew(ns)	Load(pf)	Mid	Slew(ns)	Load(pf)	Last
sg13g2_xor2_1	A	B	0.01860	0.00100	**0.00585**	0.32940	0.06480	**0.00573**	2.50740	0.30000	**0.01042**
	A	!B	0.01860	0.00100	**0.01049**	0.32940	0.06480	**0.01176**	2.50740	0.30000	**0.02841**
	B	A	0.01860	0.00100	**0.00463**	0.32940	0.06480	**0.00497**	2.50740	0.30000	**0.01030**
	B	!A	0.01860	0.00100	**0.00964**	0.32940	0.06480	**0.01137**	2.50740	0.30000	**0.02888**