DFFNEGX1(data type: typ)

Function
FLIPFLOP{
DATA=D
CLOCK=!CLK
Q=DS0000
QN=P0002
}
Q=DS0000

Static Power:

When	Static Power [nW]
-	0.247

Port:

Pin	Direction	Signaltype	Polarity
CLK	INPUT	CLOCK	FALLING_EDGE
D	INPUT	DATA	-
Q	OUTPUT	-	-

Name	Pin Capacitance [pF]		Internal Power [pJ]	
	Rise	Fall	Rise	Fall
CLK	0.0528	0.0533	0.43	1.23
D	0.0157	0.0157	0.444	1.4

Output Driving Strength

Name	Rise		Fall	
	Strength (sec/F)	Limit (pF)	Strength (sec/F)	Limit (pF)
Q	863	0.897	983	0.897

Link To Path

PATH	WHEN

Link To Constraint

Type	Path

(10CLK=>01Q)	-
(10CLK=>10Q)	-

SETUP	(01D=>10CLK)
SETUP	(10D=>10CLK)
HOLD	(10CLK=>01D)
HOLD	(10CLK=>10D)
PULSEWIDTH	(01CLK=>10CLK)
PULSEWIDTH	(10CLK=>01CLK)

(10CLK=>01Q)

DELAY [ns]

cl[pF] / ts[ns]	0.025	0.05	0.1	0.3	0.6
0.06	0.266	0.296	0.346	0.528	0.787
0.24	0.305	0.335	0.387	0.568	0.827
0.48	0.353	0.38	0.431	0.612	0.871
0.9	0.406	0.436	0.486	0.666	0.925
1.2	0.437	0.467	0.517	0.698	0.956
1.8	0.488	0.518	0.569	0.75	1.01

POWER [pJ]

cl[pF] / ts[ns]	0.025	0.05	0.1	0.3	0.6
0.06	2.26	2.2	2.13	2.06	2.04
0.24	2.61	2.55	2.5	2.43	2.41
0.48	3.13	3.06	3.01	2.96	2.94
0.9	4.07	4.02	3.97	3.9	3.88
1.2	4.75	4.7	4.63	4.58	4.56
1.8	6.11	6.06	6.01	5.93	5.91

Back To Path Index

(10CLK=>10Q)

DELAY [ns]

cl[pF] / ts[ns]	0.025	0.05	0.1	0.3	0.6
0.06	0.235	0.27	0.33	0.536	0.831
0.24	0.283	0.316	0.375	0.58	0.875
0.48	0.341	0.374	0.434	0.638	0.931
0.9	0.425	0.459	0.518	0.723	1.02
1.2	0.478	0.512	0.572	0.777	1.07
1.8	0.564	0.6	0.663	0.872	1.17

POWER [pJ]

cl[pF] / ts[ns]	0.025	0.05	0.1	0.3	0.6
0.06	2.18	2.13	2.09	2.06	2.04
0.24	2.6	2.55	2.5	2.45	2.43
0.48	3.34	3.27	3.2	3.12	3.08
0.9	4.72	4.61	4.5	4.35	4.29
1.2	5.68	5.58	5.45	5.26	5.17
1.8	7.56	7.45	7.32	7.1	6.96

Back To Path Index

Timing Constraints

SETUP(01D=>10CLK)

re [ns] / co [ns]	0.06	0.3	0.6
0.06	0.281	0.294	0.45
0.18	0.369	0.381	0.538
0.42	0.356	0.369	0.431
0.6	0.394	0.406	0.469
1.2	0.456	0.469	0.531

Back To Check Index

SETUP(10D=>10CLK)

re [ns] / co [ns]	0.06	0.3	0.6
0.06	0.375	0.388	0.356
0.18	0.369	0.381	0.35
0.42	0.356	0.369	0.431
0.6	0.394	0.406	0.469
1.2	0.55	0.563	0.531

Back To Check Index

HOLD(10CLK=>01D)

re [ns] / co [ns]	0.06	0.3	0.6
0.06	-0.0938	-0.2	-0.263
0.18	-0.0875	-0.194	-0.256
0.42	-0.169	-0.181	-0.244

0.6	-0.113	-0.219	-0.281
1.2	-0.175	-0.281	-0.344

Back To Check Index

HOLD(10CLK=>10D)

re [ns] / co [ns]	0.06	0.3	0.6
0.06	-0.0938	-0.0125	-0.075
0.18	-0.0875	-0.1	-0.0688
0.42	-0.169	-0.0875	-0.0563
0.6	-0.206	-0.125	-0.0938
1.2	-0.269	-0.188	-0.156

Back To Check Index

PULSEWIDTH(01CLK=>10CLK)

ts [ns]	0.06	0.24	0.48	0.9	1.2	1.8
width	0.175	0.197	0.219	0.237	0.244	0.256

Back To Check Index

PULSEWIDTH(10CLK=>01CLK)

ts [ns]	0.06	0.24	0.48	0.9	1.2	1.8
width	0.203	0.246	0.296	0.366	0.407	0.476