NANGATE NAND2_X1

Databook Build Date: Thursday Feb 17 15:07 2011

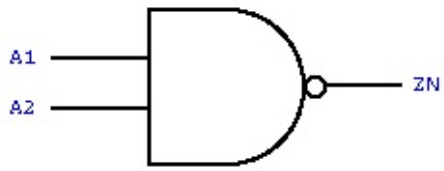
Conditions for characterization library **NangateOpenCellLibrary**, corner **NangateOpenCellLibrary_typical_typical**: Vdd= **1.10**V, Tj= **25.0** deg. C .

Additional corners: NangateOpenCellLibrary [NangateOpenCellLibrary_slow_slow], NangateOpenCellLibrary [NangateOpenCellLibrary_fast_fast], NangateOpenCellLibrary [NangateOpenCellLibrary_worst_low_worst_low], NangateOpenCellLibrary [NangateOpenCellLibrary_low_temp_low_temp].

Output transition is defined from **30%** to **70%** (rising) and from **70%** to **30%** (falling) output voltage.

Propagation delay is measured from **50%** (input rise) or **50%** (input fall) to **50%** (output rise) or **50%** (output fall).

Strength	1
Cell Area	0.798 um^2
Equation	ZN = "!(A1 & A2)"
Type	Combinational
Input	A1, A2
Output	ZN
PG Pins	VDD (primary_power), VSS (primary_ground)



State Table		
A1	**A2**	**ZN**
L	-	H
H	H	L
-	L	H

Propagation Delay [ns]					
Input Transition [ns]		**0.0012**		**0.1985**	
Load Capacitance [fF]		**0.3656**	**59.3567**	**0.3656**	**59.3567**
A1 to ZN	**fall**	0.01	0.13	0.01	0.21
	rise	0.01	0.15	0.04	0.25
A2 to ZN	**fall**	0.01	0.13	0.01	0.19
	rise	0.01	0.15	0.05	0.26

Output Transition [ns]					
Input Transition [ns]		**0.0012**		**0.1985**	
Load Capacitance [fF]		**0.3656**	**59.3567**	**0.3656**	**59.3567**
A1 to ZN	**fall**	0.00	0.11	0.03	0.13
	rise	0.00	0.14	0.03	0.15
A2 to ZN	**fall**	0.00	0.11	0.03	0.12
	rise	0.01	0.14	0.03	0.15

Capacitance [fF]	
A1	1.5990
A2	1.6642

Leakage [nW]
17.39

Dynamic Power Consumption [uW/GHz]					
Input Transition [ns]		**0.0012**		**0.1985**	
Load Capacitance [fF]		**0.3656**	**59.3567**	**0.3656**	**59.3567**
A1 to ZN	**fall**	0.21	0.26	3.27	0.92
	rise	2.19	2.18	5.34	3.47
A2 to ZN	**fall**	0.22	0.26	2.33	0.62
	rise	2.88	2.85	6.00	4.09