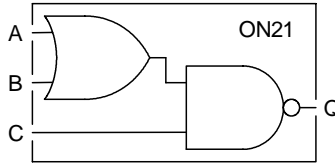


ON21 is an OR/NAND circuit providing the logical function $Q = \text{NOT} [(A+B).C]$.

Truth Table

A	B	C	Q
L	L	X	H
X	X	L	H
X	H	H	L
H	X	H	L



Capacitance

	C _i (pF)
A	0.049
B	0.043
C	0.040

Area

0.54 mils²

Power

1.77 μW/MHz

Delay [ns] = tpd.. = f(SL, L) with SL = Input Slope [ns] ; L = Output Load [pF]
 Output Slope [ns] = op_sl.. = f(L) with L = Output Load [pF]

AC Characteristics : T_j = 25°C VDD = 3.3V Typical Process

AC Characteristics

Characteristics	Symbol	SL = 0.1			SL = 2.0		
		L = 0.1	L = 0.7	L = 1.0	L = 0.1	L = 0.7	L = 1.0
Delay A to Q	tpdar	0.41	1.71	2.35	0.69	1.87	2.55
	tpdaf	0.27	1.22	1.63	0.32	1.22	1.67
Delay B to Q	tpdbr	0.44	1.74	2.42	0.60	1.85	2.51
	tpdbf	0.31	1.25	1.66	0.38	1.26	1.70
Delay C to Q	tpdcr	0.33	1.66	2.41	0.69	1.90	2.56
	tpdcf	0.26	1.18	1.63	0.44	1.32	1.75
Output Slope A to Q	op_slar	1.10	5.10	7.11	1.37	5.10	7.17
	op_slaf	0.62	3.43	4.72	0.92	3.43	4.82
Output Slope B to Q	op_slbr	1.08	5.08	7.17	1.25	5.06	7.11
	op_slbf	0.70	3.38	4.67	1.00	3.42	4.73
Output Slope C to Q	op_slcr	1.10	5.41	7.51	1.37	5.33	7.55
	op_slcf	0.71	3.43	4.68	1.10	3.55	4.87