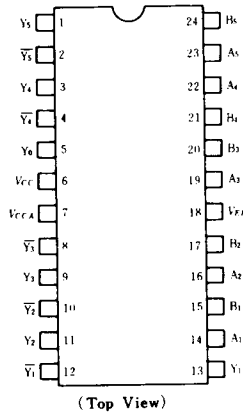


HD100107

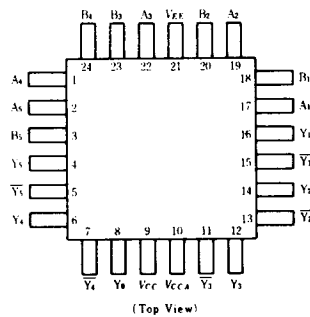
Quintuple Exclusive-OR/NOR Gates

■ PIN ARRANGEMENT

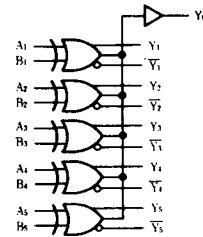
● HD100107



● HD100107F



■ LOGIC DIAGRAM



■ DC CHARACTERISTICS ($V_{EE} = -4.2$ to $-4.8V$, $V_{CC} = V_{CCA} = GND$, $T_a = 0$ to $+85^\circ C$)

Item	Symbol	Test Condition	min	typ	max	Unit
Supply Current	I_{EE}	All input open	46	66	96	mA
Input Current	I_{IH}	$V_{IN} = V_{IH\ max}$	—	—	250	μA
		A_1, A_2, A_3, A_4, A_5	—	—	350	μA

Note) As for other items, refer to the "Common DC Characteristics".

■ AC CHARACTERISTICS ($V_{EE} = -2.2$ to $-2.8V$, $V_{CC} = V_{CCA} = 2.0V$)

● HD100107

Item	Symbol	Test Condition	0°C		25°C			85°C		Unit	
			min	max	min	typ	max	min	max		
Propagation Delay Time	t_{PLH} t_{PHL}	See test circuit and waveform	B_n input $\rightarrow Y_n, \bar{Y}_n$	0.55	1.70	0.55	1.10	1.70	0.55	1.70	ns
			A_n input $\rightarrow Y_n, \bar{Y}_n$	0.55	1.60	0.55	0.90	1.60	0.55	1.60	
			Data $\rightarrow Y_0$	1.00	2.65	1.10	1.85	2.65	1.10	2.65	
Transition Time	t_{TLH} t_{THL}			0.40	1.20	0.40	0.70	1.20	0.40	1.20	ns

● HD100107F

Item	Symbol	Test Condition	0°C		25°C			85°C		Unit	
			min	max	min	typ	max	min	max		
Propagation Delay Time	t_{PLH} t_{PHL}	See test circuit and waveform	B_n input $\rightarrow Y_n, \bar{Y}_n$	0.55	1.55	0.55	1.10	1.55	0.55	1.65	ns
			A_n input $\rightarrow Y_n, \bar{Y}_n$	0.55	1.20	0.55	0.90	1.20	0.55	1.30	
			Data $\rightarrow Y_0$	1.05	2.55	1.15	1.85	2.55	1.15	2.55	
Transition Time	t_{TLH} t_{THL}			0.45	1.20	0.45	0.70	1.20	0.45	1.20	ns

Notes) The circuits in a test socket or mounted on a printed circuit board and transverse air flow greater than 2.5m/s (500 linear fpm) is maintained.