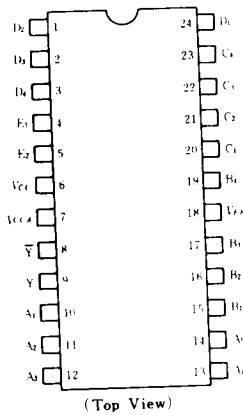


HD100118

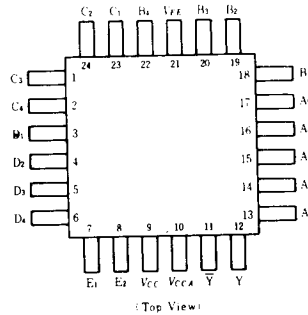
5-wide OR-AND/OR-AND-INVERT Gate

■ PIN ARRANGEMENT

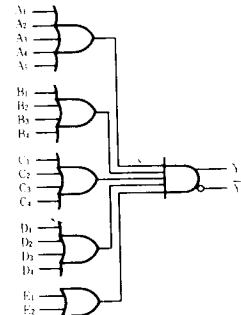
● HD100118



● HD100118F



■ 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	27	39	57	mA
Input Current	I_{IH}	$V_{IN} = V_{IH\ max}$ A input	—	—	350	μA
		B—E input	—	—	240	μA

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

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

● HD100118

Item	Symbol	Test Condition	0°C		25°C			85°C		Unit
			min	max	min	typ	max	min	max	
Propagation Delay Time	t_{PLH}	See test circuit and waveform	0.95	1.90	0.95	1.40	1.90	0.95	1.95	ns
	t_{PHL}		0.95	1.90	0.95	1.40	1.90	0.95	1.95	ns
Transition Time	t_{TLH}	See test circuit and waveform	0.30	1.35	0.30	0.75	1.35	0.30	1.35	ns
	t_{THL}		0.30	1.35	0.30	0.75	1.35	0.30	1.35	ns

● HD100118F

Item	Symbol	Test Condition	0°C		25°C			85°C		Unit
			min	max	min	typ	max	min	max	
Propagation Delay Time	t_{PLH}	See test circuit and waveform	0.80	1.90	0.85	1.40	1.90	0.85	1.95	ns
	t_{PHL}		0.80	1.90	0.85	1.40	1.90	0.85	1.95	ns
Transition Time	t_{TLH}	See test circuit and waveform	0.35	1.20	0.35	0.75	1.20	0.35	1.20	ns
	t_{THL}		0.35	1.20	0.35	0.75	1.20	0.35	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.