Triple 2-3-2-Input OR/NOR Gate

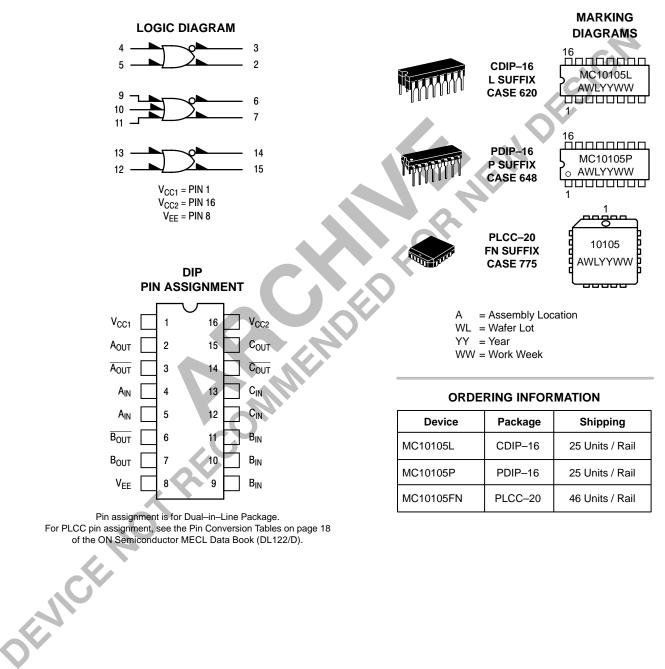
The MC10105 is a triple 2–3–2 input OR/NOR gate.

- $P_D = 30 \text{ mW typ/gate (No Load)}$
- $t_{pd} = 2.0 \text{ ns typ}$
- t_r , $t_f = 2.0$ ns typ (20%-80%)



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些的TRICAD CHARACTERISTICS

		Pin	Test Limits -30°C +25°C +85°C						-	
		Under		1		+25°C	_		1	
Characteristic	Symbol	Test	Min	Max	Min	Тур	Max	Min	Max	Uni
Power Supply Drain Current	١ _E	8		23		17	21		23	mAd
Input Current	l _{inH}	4		425			265		265	μAd
	I _{inL}	4	0.5		0.5			0.3		μAd
Output Voltage Logic 1	V _{OH}	3 2	-1.060 -1.060	-0.890 -0.890	-0.960 -0.960		-0.810 -0.810	-0.890 -0.890	-0.700 -0.700	Vdc
Output Voltage Logic 0	V _{OL}	3 2	-1.890 -1.890	-1.675 -1.675	-1.850 -1.850		-1.650 -1.650	-1.825 -1.825	-1.615 -1.615	Vdo
Threshold Voltage Logic 1	V _{OHA}	3 2	-1.080 -1.080		-0.980 -0.980			-0.910 -0.910		Vdc
Threshold Voltage Logic 0	V _{OLA}	3 2		-1.655 -1.655			-1.630 -1.630		-1.595 -1.595	Vdo
Switching Times (50 Ω Load)									2	ns
Propagation Delay	t ₄₊₃₋	3	1.0	3.1	1.0	2.0	2.9	1.0	3.3	
	t ₄₋₃₊	3	1.0	3.1	1.0	2.0	2.9	1.0	3.3	1
	t ₄₊₂₊	2	1.0	3.1	1.0	2.0	2.9	1.0	3.3	1
	t ₄₋₂₋	2	1.0	3.1	1.0	2.0	2.9	1.0	3.3	
Rise Time (20 to 80%)	t ₃₊ t ₂₊	3 2	1.1 1.1	3.6 3.6	1.1 1.1	2.0 2.0	3.3 3.3	1.1 1.1	3.7 3.7	
Fall Time (20 to 80%)	t ₃₋	3	1.1	3.6	1.1	2.0	3.3	1.1	3.7	
	t ₂₋	2	1.1	3.6	1.1	2.0	3.3	1.1	3.7	
						—				
				NO	ED					
OFMCEN										
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ELECTRICAL CHARACTERISTICS (continued)

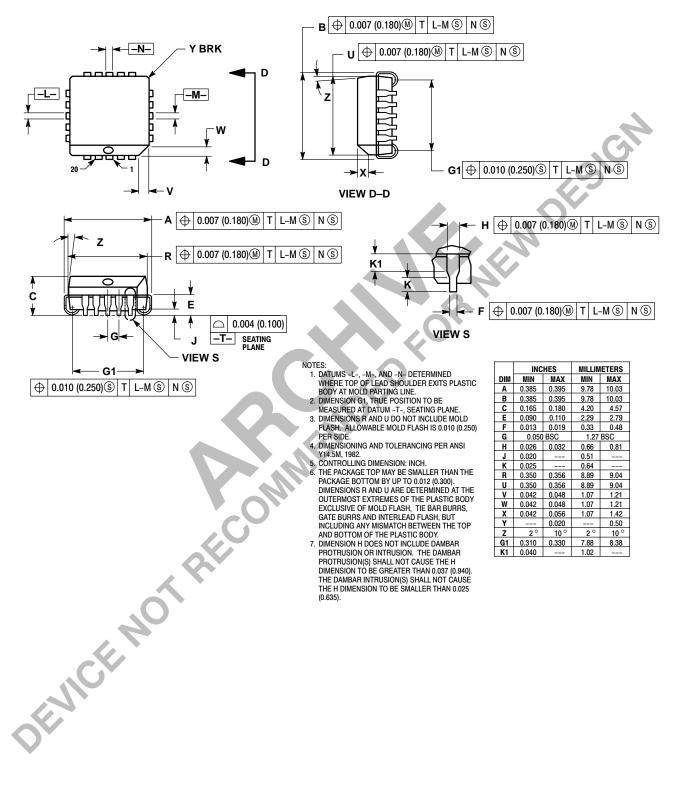
				TEST VOLTAGE VALUES (Volts)					
		@ Test Te	mperature	V _{IHmax}	V _{ILmin}	V _{IHAmin}	V _{ILAmax}	V _{EE}	
			–30°C	-0.890	-1.890	-1.205	-1.500	-5.2	
			+25°C	-0.810	-1.850	-1.105	-1.475	-5.2	
			+85°C	-0.700	-1.825	-1.035	-1.440	-5.2	
			Pin	TEST VOLTAGE APPLIED TO PINS LISTED BELOW					
Characteristic		Symbol	Under Test	V _{IHmax}	V _{ILmin}	V _{IHAmin}	V _{ILAmax}	V _{EE}	(V _{CC}) Gnd
Power Supply Drain	Current	١ _E	8					8	1, 16
Input Current		I _{inH}	4	4				8	1, 16
		I _{inL}	4		4			8	1, 16
Output Voltage	Logic 1	V _{OH}	3 2	4				8 8	1, 16 1, 16
Output Voltage	Logic 0	V _{OL}	3 2	4				8 8	1, 16 1, 16
Threshold Voltage	Logic 1	V _{OHA}	3 2			4	4	8 8	1, 16 1, 16
Threshold Voltage	Logic 0	V _{OLA}	3 2			4	4	8 8	1, 16 1, 16
Switching Times	(50 Ω Load)					Pulse In	Pulse Out	–3.2 V	+2.0 V
Propagation Delay		t ₄₊₃₋ t ₄₋₃₊ t ₄₊₂₊ t ₄₋₂₋	3 3 2 2			4 4 4 4	3 3 2 2	8 8 8 8	1, 16 1, 16 1, 16 1, 16 1, 16
Rise Time	(20 to 80%)	t ₃₊ t ₂₊	3 2			4 4	3 2	8 8	1, 16 1, 16
Fall Time	(20 to 80%)	t _{3–} t _{2–}	3 2			4 4	3 2	8 8	1, 16 1, 16

to the circuit is in a test socket or mounted on a printed circuit board and transverse air flow greater than 500 linear tpri is maintained. During are terminated through a 50-ohm resistor to -2.0 volts. Test procedures are shown for only one gate. The other gates are tested in the same manner.

查询"MC10105L"供应商

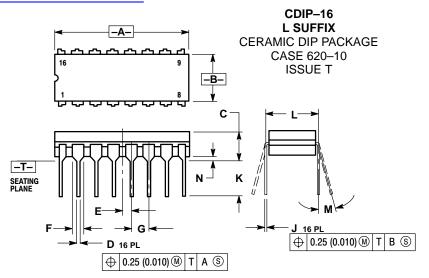
PACKAGE DIMENSIONS

PLCC-20 FN SUFFIX PLASTIC PLCC PACKAGE CASE 775-02 ISSUE C



查询"MC10105L"供应商

PACKAGE DIMENSIONS



DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
CONTROLLING DIMENSION: INCH.
DIMENSION L TO CENTER OF LEAD WHEN FOOMED DRAWLES

DIMENSION LTO CENTER OF LEAD WHEN FORMED PARALLEL.
DIMENSION F MAY NARROW TO 0.76 (0.030) WHERE THE LEAD ENTERS THE CERAMIC BODY.

	INC	HES	MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.750	0.785	19.05	19.93	
В	0.240	0.295	6.10	7.49	
С		0.200		5.08	
D	0.015	0.020	0.39	0.50	
Е	0.050	BSC	1.27 BSC		
F	0.055	0.065	1.40	1.65	
G	0.100	BSC	2.54 BSC		
Н	0.008	0.015	0.21	0.38	
κ	0.125	0.170	3.18	4.31	
Г	0.300 BSC		7.62 BSC		
Μ	0° 15°		0 °	15°	
Ν	0.020	0.040	0.51	1.01	

-A-ስ ስ ስ ሶ 16 В 0 Ų $\Box \Box$ ι, հո - C S -T- SEATING PLANE H G **D** 16 PL

PDIP-16 **P SUFFIX** PLASTIC DIP PACKAGE CASE 648-08 ISSUE R

NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH. 3. DIMENSION L TO CENTER OF LEADS WHEN FORMED PARALLEL. 4. DIMENSION B DOES NOT INCLUDE MOLD FLASH. 5. ROUNDED CORNERS OPTIONAL.

		INC	HES	MILLIMETERS		
	DIM	MIN	MAX	MIN	MAX	
	Α	0.740	0.770	18.80	19.55	
	В	0.250	0.270	6.35	6.85	
	C	0.145	0.175	3.69	4.44	
	D	0.015	0.021	0.39	0.53	
[F	0.040	0.70	1.02	1.77	
	G	0.100	BSC	2.54 BSC		
	Н	0.050	BSC	1.27 BSC		
	J	0.008	0.015	0.21	0.38	
	K	0.110	0.130	2.80	3.30	
[L	0.295	0.305	7.50	7.74	
	М	0°	10 °	0 °	10 °	
[S	0.020 0.04		0.51	1.01	

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