查询"MC10212FN"供应商

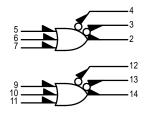
High Speed Dual 3-Input/ 3-Output OR/NOR Gate

The MC10212 is designed to drive up to six transmission lines simultaneously. The multiple outputs of this device also allow the wire "OR"-ing of several levels of gating for minimization of gate and package count.

The ability to control three parallel lines with minimum propagation delay from a single point makes the MC10212 particularly useful in clock distribution applications where minimum clock skew is desired.

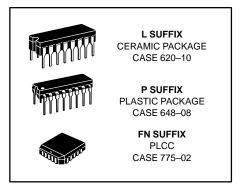
 $P_D = 160$ mW typ/pkg (No Load) $t_{pd} = 1.5$ ns typ (All Outputs Loaded) t_r , $t_f = 1.5$ ns typ (20%–80%)

LOGIC DIAGRAM

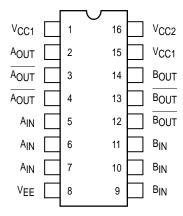


V_{CC1} = PIN 1, 15 V_{CC2} = PIN 16 V_{EE} = PIN 8

MC10212



DIP PIN ASSIGNMENT



Pin assignment is for Dual–in–Line Package. For PLCC pin assignment, see the Pin Conversion Tables on page 6–11 of the Motorola MECL Data Book (DL122/D).

查询"MC10212FN"供应商 ELECTRICAL CHARACTERISTICS

		Test Limits									
Characteristic Symbol		Pin Under	-30°C		+25°C			+85°C		1	
		Symbol	Test	Min	Max	Min	Тур	Max	Min	Max	Unit
Power Supply Drain Current		ΙE	8		42		30	38		42	mAdd
Input Current		l _{inH}	5, 6, 7		650			410		410	μAdc
		l _{inL}	5, 6, 7	0.5		0.5			0.3		μAdc
Output Voltage	Logic 1	VOH	2 3 4	-1.060 -1.060 -1.060	-0.890 -0.890 -0.890	-0.960 -0.960 -0.960		-0.810 -0.810 -0.810	-0.890 -0.890 -0.890	-0.700 -0.700 -0.700	Vdc
Output Voltage	Logic 0	VOL	2 3 4	-1.890 -1.890 -1.890	-1.675 -1.675 -1.675	-1.850 -1.850 -1.850		-1.650 -1.650 -1.650	-1.825 -1.825 -1.825	-1.615 -1.615 -1.615	Vdc
Threshold Volta	age Logic 1	VOHA	2 3 4	-1.080 -1.080 -1.080		-0.980 -0.980 -0.980			-0.910 -0.910 -0.910		Vdc
Threshold Volta	age Logic 0	VOLA	2 3 4		-1.655 -1.655 -1.655			-1.630 -1.630 -1.630		-1.595 -1.595 -1.595	Vdc
Switching Times (50Ω Load)											ns
Propagation De	elay	t5+2+ t5-2- t5+3- t5-3+ t5+4- t5-4+	2 2 3 3 4 4	1.0 1.0 1.0 1.0 1.0	2.6 2.6 2.6 2.6 2.6 2.6	1.0 1.0 1.0 1.0 1.0	1.5 1.5 1.5 1.5 1.5	2.5 2.5 2.5 2.5 2.5 2.5	1.0 1.0 1.0 1.0 1.0	2.8 2.8 2.8 2.8 2.8 2.8	
Rise Time	(20 to 80%)	t ₂₊ t ₃₊ t ₄₊	2 3 4	1.0 1.0 1.0	2.6 2.6 2.6	1.0 1.0 1.0	1.5 1.5 1.5	2.5 2.5 2.5	1.0 1.0 1.0	2.8 2.8 2.8	
Fall Time	(20 to 80%)	t2- t3- t4-	2 3 4	1.0 1.0 1.0	2.6 2.6 2.6	1.0 1.0 1.0	1.5 1.5 1.5	2.5 2.5 2.5	1.0 1.0 1.0	2.8 2.8 2.8	

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查询"MC10212FN"供应商 ELECTRICAL CHARACTERISTICS (continued)

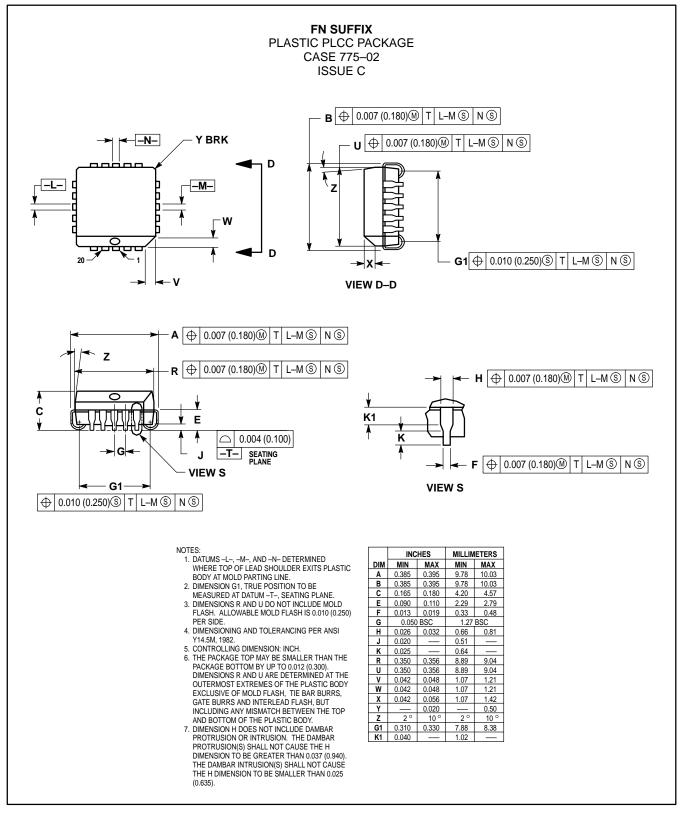
				TEST VOLTAGE VALUES (Volts)					
		@ Test Te	mperature	V _{IHmax}	V _{ILmin}	VIHAmin	V _{ILAmax}	VEE	
			–30°C	-0.890	-1.890	-1.205	-1.500	-5.2	
			+25°C	-0.810	-1.850	-1.105	-1.475	-5.2	
			+85°C	-0.700	-1.825	-1.035	-1.440	-5.2	
			Pin	TEST VOLTAGE APPLIED TO PINS LISTED BELOW					
Characteristic		Symbol	Under Test	V _{IHmax}	V _{ILmin}	V _{IHAmin}	V _{ILAmax}	V _{EE}	(VCC) Gnd
Power Supply Drain Current		ΙΕ	8					8	1, 15, 16
Input Current		linH	5, 6, 7	5, 6, 7*				8	1, 15, 16
		l _{inL}	5, 6, 7		5, 6, 7*			8	1, 15, 16
Output Voltage	Logic 1	VOH	2 3 4	5				8 8 8	1, 15, 16 1, 15, 16 1, 15, 16
Output Voltage	Logic 0	V _{OL}	2 3 4	5 5				8 8 8	1, 15, 16 1, 15, 16 1, 15, 16
Threshold Voltage	Logic 1	Voha	2 3 4			5	5 5	8 8 8	1, 15, 16 1, 15, 16 1, 15, 16
Threshold Voltage	Logic 0	VOLA	2 3 4			5 5	5	8 8 8	1, 15, 16 1, 15, 16 1, 15, 16
Switching Times	(50Ω Load)					Pulse In	Pulse Out	-3.2 V	+2.0 V
Propagation Delay		t5+2+ t5-2- t5+3- t5-3+ t5+4- t5-4+	2 2 3 3 4 4			5 5 5 5 5	2 2 3 3 4 4	8 8 8 8 8	1, 15, 16 1, 15, 16 1, 15, 16 1, 15, 16 1, 15, 16 1, 15, 16
Rise Time	(20 to 80%)	t ₂₊ t ₃₊ t ₄₊	2 3 4			5 5 5	2 3 4	8 8 8	1, 15, 16 1, 15, 16 1, 15, 16
Fall Time	(20 to 80%)	t ₂₋ t ₃₋ t ₄₋	2 3 4			5 5 5	2 3 4	8 8 8	1, 15, 16 1, 15, 16 1, 15, 16

^{*} Individually test each input using the pin connections shown.

Each MECL 10,000 series circuit has been designed to meet the dc specifications shown in the test table, after thermal equilibrium has been established. The circuit is in a test socket or mounted on a printed circuit board and transverse air flow greater than 500 linear fpm is maintained. Outputs 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.

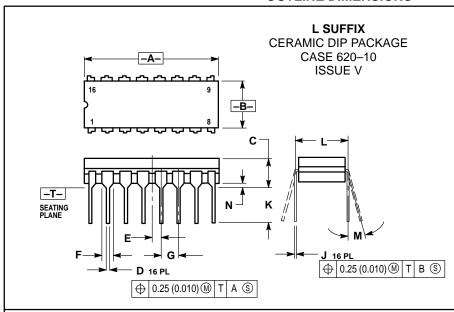
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OUTLINE DIMENSIONS



查询"MC10212FN"供应商

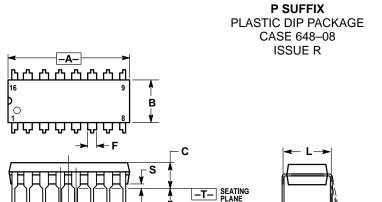
OUTLINE DIMENSIONS



NOTES:

- DIMENSIONING AND TOLERANCING PER
- ANSI Y14.5M, 1982. CONTROLLING DIMENSION: INCH.
- DIMENSION L TO CENTER OF LEAD WHEN FORMED PARALLEL.
- DIMENSION F MAY NARROW TO 0.76 (0.030) WHERE THE LEAD ENTERS THE CERAMIC

	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		
K	0.125	0.170	3.18	4.31		
L	0.300	BSC	7.62 BSC			
M	0°	15°	0°	15°		
N	0.020	0.040	0.51	1.01		



0.25 (0.010) M T A M

- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI
- Y14.5M, 1982. CONTROLLING DIMENSION: INCH.
- DIMENSION L TO CENTER OF LEADS WHEN FORMED PARALLEL
- DIMENSION B DOES NOT INCLUDE MOLD FLASH.
- 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		
С	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	0.040	0.51	1.01		

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