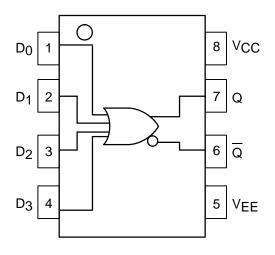
4-Input OR/NOR

The MC100LVEL01 is a 4-input OR/NOR gate. The device is functionally equivalent to the EL01 device and works from a -3.3V supply. With AC performance similar to the EL01 device, the LVEL01 is ideal for low voltage applications which require the ultimate in AC performance.

- 370ps Propagation Delay
- High Bandwidth Output Transitions
- Specified for -3.3V (or 3.3V) Supply Voltage
- 75kΩ Internal Input Pulldown Resistors
- >2000V ESD Protection

LOGIC DIAGRAM AND PINOUT ASSIGNMENT



MC100LVEL01



PIN	FUNCTION
D0-D3 Q	Data Inputs Data Outputs

DC CHARACTERISTICS

			–40°C			0°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
IEE	Power Supply Current		15	20		15	20		15	20		17	22	mA
VEE	Power Supply Voltage	-3.0	-3.3	-3.8	-3.0	-3.3	-3.8	-3.0	-3.3	-3.8	-3.0	-3.3	-3.8	V
lн	Input HIGH Current			150			150			150			150	μΑ

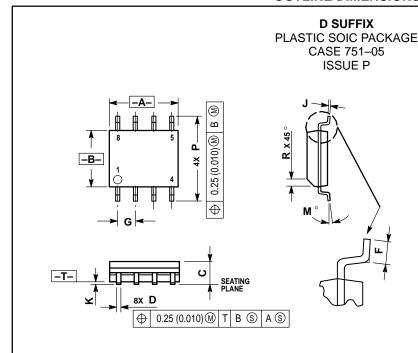
AC CHARACTERISTICS (VEE = VEE(min) to VEE(max); VCC = GND)

			–40 °C			0°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
^t PLH ^t PHL	Propagation Delay to Output	210	310	510	260	360	460	270	370	470	290	390	490	ps
t _{skew}	Input Skew		40			40			40			40		ps
t _r t _f	Output Rise/Fall Times Q (20% – 80%)	120	225	320	120	225	320	120	225	320	120	225	320	ps

7/96

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OUTLINE DIMENSIONS



NOTES:

- DIMENSIONS A AND B ARE DATUMS AND T IS A DATUM SURFACE.
- 2. DIMENSIONING AND TOLERANCING PER ANSI Y14 5M 1982
- DIMENSIONS ARE IN MILLIMETER.
- 4. DIMENSION A AND B DO NOT INCLUDE MOLD PROTRUSION.
- MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
 DIMENSION D DOES NOT INCLUDE MOLD
- PROTRUSION. ALLOWABLE DAMBAR
 PROTRUSION SHALL BE 0.127 TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION

	MILLIMETERS							
DIM	MIN	MAX						
Α	4.80	5.00						
В	3.80	4.00						
С	1.35	1.75						
D	0.35	0.49						
F	0.40	1.25						
G	1.27	1.27 BSC						
J	0.18	0.25						
K	0.10	0.25						
М	0 °	7 °						
Р	5.80	6.20						
R	0.25	0.50						

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