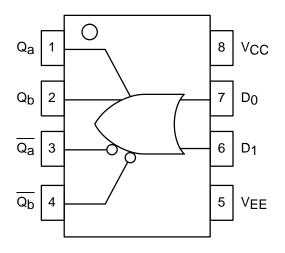
Low Impedance Driver

The MC100LVEL12 is a low impedance drive buffer. With two pairs of OR/NOR outputs the device is ideally suited for high drive applications such as memory addressing. The device is a function equivalent to the EL12 device and operates from a low voltage power supply. With propagation delays equivalent to the EL12, the LVEL12 is ideally suited for those applications which require the ultimate in AC performance in a low voltage environment.

- 445ps Propagation Delay
- Dual Outputs for 25Ω Drive Applications
- 75kΩ Internal Input Pulldown Resistors
- >2000V ESD Protection

LOGIC DIAGRAM AND PINOUT ASSIGNMENT



MC100LVEL12



D SUFFIX 8-LEAD PLASTIC SOIC PACKAGE CASE 751-05

PIN DESCRIPTION

PIN
D0, D1 Qa, Qb

DC CHARACTERISTICS ($V_{EE} = V_{EE}(min)$ to $V_{EE}(max)$; $V_{CC} = GND$)

		-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		17	24		17	24		17	24		18	25	mA
VEE	Power Supply Voltage	-3.0		-3.8	-3.0		-3.8	-3.0		-3.8	-3.0		-3.8	V
lн	Input HIGH Current			150			150			150			150	μΑ

AC CHARACTERISTICS ($V_{EE} = V_{EE}(min)$ to $V_{EE}(max)$; $V_{CC} = GND$)

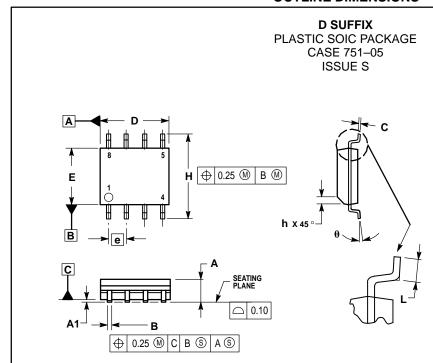
		-40°C			0°C			25°C			85°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
^t PLH ^t PHL	Propagation Delay to Output	310		580	310		580	310	445	580	320		590	ps
t _r	Output Rise/Fall Times Q (20% – 80%)	230	400	550	230	400	550	230	400	550	230	400	550	ps

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OUTLINE DIMENSIONS



NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
- DIMENSIONS ARE IN MILLIMETERS.
 DIMENSION D AND E DO NOT INCLUDE MOLD PROTRUSION.

 MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
- DIMENSION B DOES NOT INCLUDE MOLD PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 TOTAL IN EXCESS OF THE B DIMENSION AT MAXIMUM MATERIAL

	MILLIMETERS								
DIM	MIN	MAX							
Α	1.35	1.75							
A1	0.10	0.25							
В	0.35	0.49							
С	0.18	0.25							
D	4.80	5.00							
Е	3.80	4.00							
е	1.27	1.27 BSC							
Н	5.80	6.20							
h	0.25	0.50							
L	0.40	1.25							
θ	0 °	7 °							

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MC100LVEL12/D