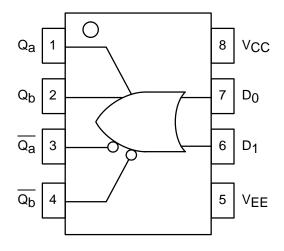
Low Impedance Driver

The MC10EL/100EL12 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 E112 device with higher performance capabilities. With propagation delays significantly faster than the E112 the EL12 is ideally suited for those applications which require the ultimate in AC performance.

- 290ps Propagation Delay
- Dual Outputs for 25Ω Drive Applications
- 75kΩ Internal Input Pulldown Resistors
- >1000V ESD Protection

LOGIC DIAGRAM AND PINOUT ASSIGNMENT



MC10EL12 MC100EL12



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

		–40°C		0°C			25°C			85°C				
Symbol	Characteristic	Min	Тур	Max	Unit									
IEE	Power Supply Current 10EL 100EL		14 14	17 17		14 14	17 17		14 14	17 17		14 16	17 20	mA
V _{EE}	Power Supply Voltage 10EL 100EL	-4.94 -4.20	-5.2 -4.5	-5.5 -5.5	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	120	280	500	170	280	450	180	290	450	210	320	480	ps
t _r	Output Rise/Fall Times Q (20% – 80%)	150	350	550	150	350	550	150	350	550	150	350	550	ps

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OUTLINE DIMENSIONS

D SUFFIX PLASTIC SOIC PACKAGE CASE 751–05 ISSUE P SEATING PLANE 0.25 (0.010) T B S A S

NOTES:

- DIMENSIONS A AND B ARE DATUMS AND T IS A DATUM SURFACE.
- DIMENSIONING AND TOLERANCING PER ANSI Y14 5M 1982
- 3. DIMENSIONS ARE IN MILLIMETER.
- DIMENSION A AND B DO NOT INCLUDE MOLD PROTRUSION.
- 5. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE. 6. DIMENSION D DOES NOT INCLUDE MOLD
- 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							
C	1.35	1.75							
D	0.35	0.49							
F	0.40	1.25							
G	1.27	1.27 BSC							
_	0.18	0.25							
K	0.10	0.25							
M	0 °	7 °							
Р	5.80	6.20							
R	0.25	0.50							

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