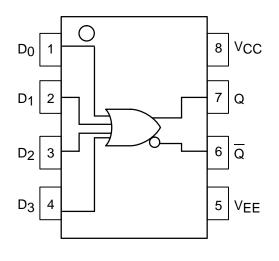
4-Input OR/NOR

The MC10EL/100EL01 is a 4-input OR/NOR gate. The device is functionally equivalent to the E101 device with higher performance capabilities. With propagation delays and output transition times significantly faster than the E101 the EL01 is ideally suited for those applications which require the ultimate in AC performance.

- 230ps Propagation Delay
- High Bandwidth Output Transitions
- 75kΩ Internal Input Pulldown Resistors
- >1000V ESD Protection

LOGIC DIAGRAM AND PINOUT ASSIGNMENT





MC10EL01 MC100EL01

PIN	FUNCTION
D0–D3	Data Inputs
Q	Data Outputs

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 10EI 100E		14 14	17 17		14 14	17 17		14 14	17 17		14 16	17 20	mA
VEE	Power Supply Voltage 10EI 100E		-5.2 -4.5	-5.5 -5.5	-4.75 -4.20	-5.2 -4.5	-5.5 -5.5	-4.75 -4.20	-5.2 -4.5	-5.5 -5.5	-4.75 -4.20	-5.2 -4.5	-5.5 -5.5	V
IIH	Input HIGH Current			150			150			150			150	μA

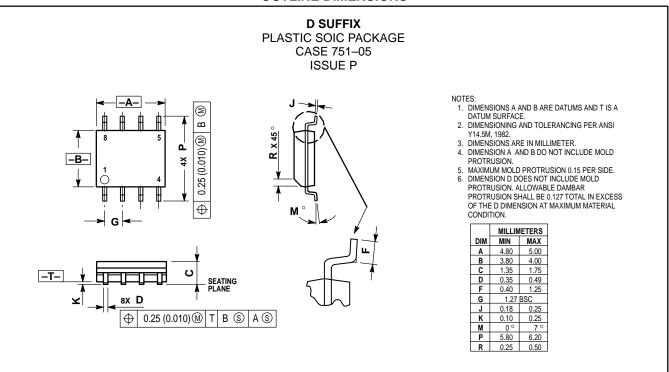
AC CHARACTERISTICS ($V_{EE} = V_{EE}(min)$ to $V_{EE}(max)$; $V_{CC} = GND$)

		-40°C			0°C			25°C			85°C			
Symbol	Characteristic	Min	Тур	Мах	Min	Тур	Мах	Min	Тур	Мах	Min	Тур	Мах	Unit
^t PLH ^t PHL	Propagation Delay to Output	70	220	370	120	220	320	130	230	330	150	250	350	ps
t _r t _f	Output Rise/Fall Times Q (20% – 80%)	100	225	350	100	225	350	100	225	350	100	225	350	ps

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