

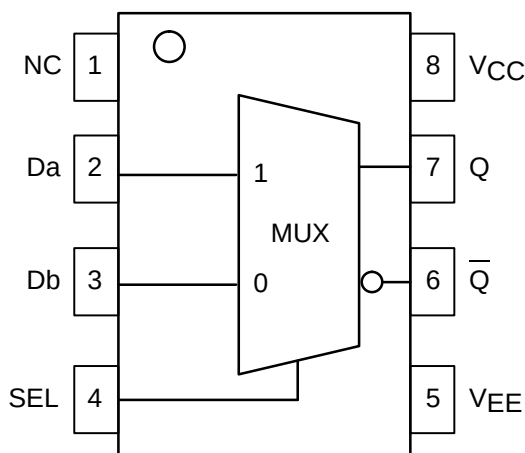
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2:1 Multiplexer

The MC10EL/100EL58 is a 2:1 multiplexer. The device is functionally equivalent to the E158 device with higher performance capabilities. With propagation delays and output transition times significantly faster than the E158 the EL58 is ideally suited for those applications which require the ultimate in AC performance.

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

LOGIC DIAGRAM AND PINOUT ASSIGNMENT



MC10EL58 MC100EL58



D SUFFIX
PLASTIC SOIC PACKAGE
CASE 751-05

FUNCTION TABLE

SEL	Data
H	a
L	b

PIN DESCRIPTION

PIN	FUNCTION
D0, D1	Data Inputs
Q	Data Outputs

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

Symbol	Characteristic	-40°C			0°C			25°C			85°C			Unit
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
I_{EE}	Power Supply Current 10EL 100EL		14 14	17 17		14 14	17 17		14 14	17 17		14 16	17 19	mA
V_{EE}	Power Supply Voltage 10EL 100EL	-4.94 -4.20	-5.2 -4.5	-5.5 -5.5	-4.94 -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
I_{IH}	Input HIGH Current			150			150			150			150	μ A

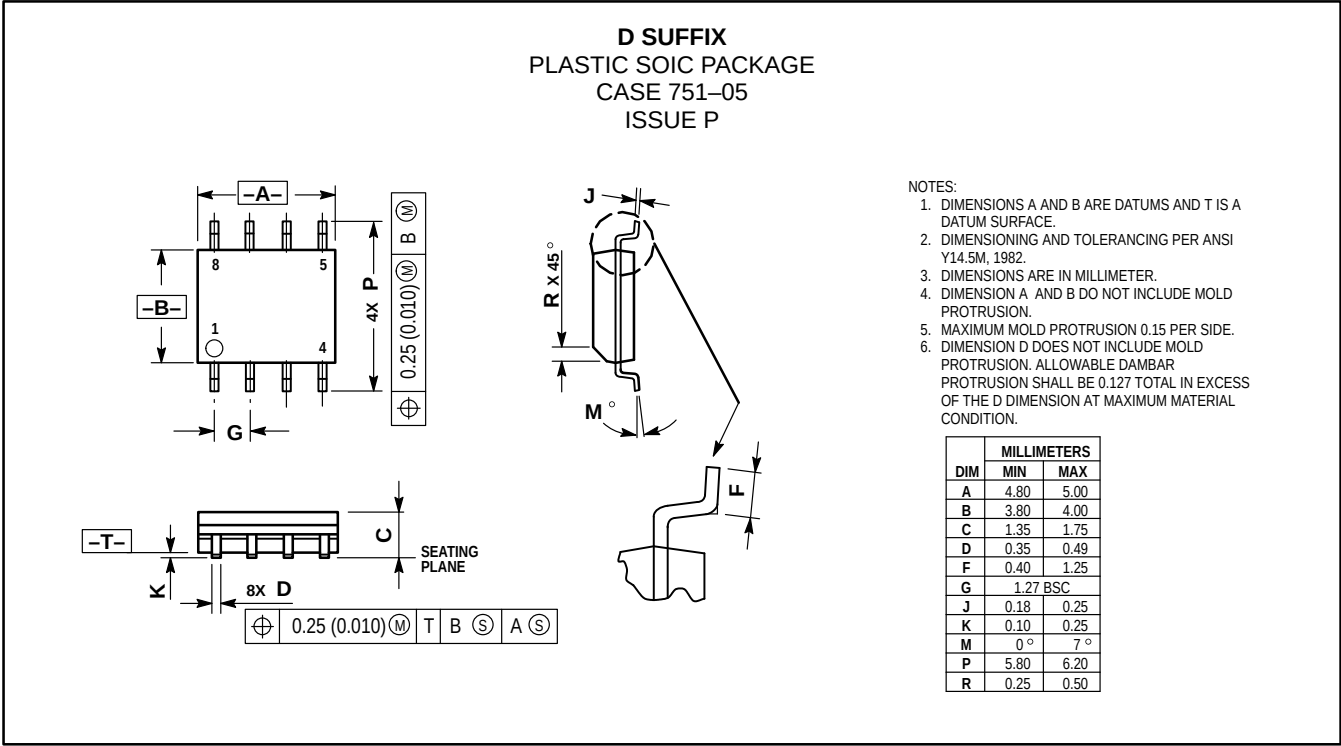
AC CHARACTERISTICS ($V_{EE} = V_{EE}(\min)$ to $V_{EE}(\max)$; $V_{CC} = GND$)

Symbol	Characteristic	-40°C			0°C			25°C			85°C			Unit
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
t_{PLH} t_{PHL}	Propagation Delay to Output D to Q SEL to Q	60 90	220 250	380 410	110 140	220 250	330 360	120 150	230 260	340 370	140 170	250 280	360 390	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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OUTLINE DIMENSIONS



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