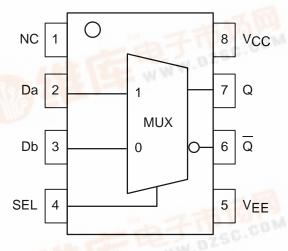
2:1 Multiplexer

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
- 75kΩ Internal Input Pulldown Resistors
- >1000V ESD Protection

LOGIC DIAGRAM AND PINOUT ASSIGNMENT



MC10EL58 MC100EL58



	FUNCTIO	N TABLE					
	SEL	Data					
	H L	a b					
	PIN DESCRIPTION						
	PIN DES	CRIPTION					
PIN	PIN DES	CRIPTION					

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

				–40°C			0°C			25°C	"h	7	85°C	C0	V.
Symbol	Characteri	stic	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 19	mA
VEE	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
lн	Input HIGH Curr	ent		075	150			150			150			150	μΑ

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

1000	3 = -	-40°C			0°C			25°C			85°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
tPLH tPHL	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. f 维库	Output Rise/Fall Times Q (20% – 80%)	100	225	350	100	225	350	100	225	350	100	225	350	ps

dt.dzsc.com

OUTLINE DIMENSIONS

D SUFFIX PLASTIC SOIC PACKAGE CASE 751–05 ISSUE P SEATING PLANE 0.25 (0.010) 10 T B S A S

NOTES:

- DIMENSIONS A AND B ARE DATUMS AND T IS A DATUM SURFACE.
- DIMENSIONING AND TOLERANCING PER ANSI
 V14 FM 1982
- Y14.5M, 1982. 3. DIMENSIONS ARE IN MILLIMETER.
- DIMENSION A AND B DO NOT INCLUDE MOLD PROTRUSION.
- MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
 DIMENSION D DOES NOT INCLUDE MOLD
- DIMENSION D DOES NOT INCLUDE MOCID 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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