

Product Overview

MC10EL58: Multiplexer, 2:1, ECL, 5.0 V

For complete documentation, see the data sheet.

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.

Features

- 230ps Propagation Delay
- ESD Protection: > 1 KV HBM, > 100 V MM
- PECL Mode Operating Range: VCC= 4.2 V to 5.7 V with VEE= 0 V
- NECL Mode Operating Range: VCC= 0 V with VEE= -4.2 V to -5.7 V
- Internal Input Pulldown Resistors on D, Db, and SEL
- Meets or Exceeds JEDEC Spec EIA/JESD78 IC Latchup Test
- Moisture Sensitivity Level 1 For Additional Information, see Application Note AND8003/D
- Flammability Rating: UL-94 code V-0 @ 1/8", Oxygen Index 28 to 34
- Transistor Count = 45 devices
- Pb-Free Packages are Available

For more features, see the data sheet

Applications

- Timing Circuits

Part Electrical Specifications

Product	Compliance	Status	Input/Output Ratio	Channels	Input Level	Output Level	V _{CC} Typ (V)	f _{Max} Typ (MHz)	t _{Jitter} Typ (ps)	t _{skew(OO) Max} (ps)	t _{pd} Typ (ns)	Package Type
MC10EL58DG	Pb-free	Active	2:1	1	ECL	ECL	5	1500	0.9		0.23	SOIC-8
	Halide free											
MC10EL58DR2G	Pb-free	Active	2:1	1	ECL	ECL	5	1500	0.9		0.23	SOIC-8
	Halide free											
MC10EL58DTG	Pb-free	Active	2:1	1	ECL	ECL	5	1500	0.9		0.23	TSSOP-8
	Halide free											

For more information please contact your local sales support at www.onsemi.com.

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