

Product Overview

MC10EL01: ECL 4-Input OR/NOR Gate

For complete documentation, see the data sheet.

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. The 100 series contains temperature compensation.

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
- 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 = 46 devices
- Pb-Free Packages are Available

For more features, see the data sheet

Part Electrical Specifications

Product	Compliance	Status	Type	Channels	Input Level	Output Level	V _{CC} Typ (V)	f _{Toggle Max} (MHz)	t _{pd} Typ (ns)	t _{jitter} Typ (ps)	t _r & t _f Max (ps)	Package Type
MC10EL01DG	Pb-free Halide free	Active	OR/NOR	1	ECL	ECL	5	2000	0.23	1	350	SOIC-8

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

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