

## Product Overview

### MC100LVEL01: ECL 4-Input OR/NOR Gate

For complete documentation, see the data sheet.

The MC100LVEL01 is a 4-input OR/NOR gate. The device is functionally equivalent to the EL01 device and works from a -3.3V supply. With AC performance similar to the EL01 device, the LVEL01 is ideal for low voltage applications which require the ultimate in AC performance.

### Features

- 370ps Propagation Delay
  - High Bandwidth Output Transitions
  - ESD Protection: >2 KV HBM, >200 V MM
  - The 100 Series Contains Temperature Compensation
  - PECL Mode Operating Range: VCC= 3.0 V to 3.8 V with VEE= 0 V
  - NECL Mode Operating Range: VCC= 0 V with VEE= -3.0 V to -3.8 V
  - Internal Input Pulldown Resistors
  - Q Output will Default LOW with All Inputs Open or at VEE
  - Meets or Exceeds JEDEC Spec EIA/JESD78 IC Latchup Test
  - Moisture Sensitivity Level 1 For Additional Information, see Application Note AND8003/D
- For more features, see the data sheet

### Part Electrical Specifications

Product	Compliance	Status	Type	Channels	Input Level	Output Level	V <sub>CC</sub> Typ (V)	f <sub>Toggle</sub> Max (MHz)	t <sub>pd</sub> Typ (ns)	t <sub>Jitter</sub> Typ (ps)	t <sub>r</sub> & t <sub>f</sub> Max (ps)	Package Type
MC100LVEL01DR2G	Pb-free Halide free	Active	OR/NOR	1	ECL	ECL	3.3	2000	0.37	1	320	SOIC-8

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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