

## Product Overview

### MC100EP08: Differential 2-Input XOR/XNOR Gate

For complete documentation, see the data sheet.

The MC100EP08 is a differential XOR/XNOR gate. The EP08 is ideal for applications requiring the fastest AC performance available. The 100 Series contains temperature compensation.

### Features

- 250 ps Typical Propagation Delay
- Maximum Frequency > 3 Ghz Typical
- PECL Mode Operating Range: VCC= 3.0 V to 5.5 V with VEE= 0 V
- NECL Mode Operating Range: VCC= 0 V with VEE= -3.0 V to -5.5 V
- Open Input Default State
- Safety Clamp on Inputs
- Q Output Will Default LOW with Inputs Open or at VEE

### Part Electrical Specifications

Product	Pricing (\$/Unit)	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
MC100EP08DG		Pb-free Halide free	Active	XOR/XNOR	1	CML ECL	ECL	5 3.3	3000	0.25	0.2	170	SOIC-8
MC100EP08DTG		Pb-free Halide free	Active	XOR/XNOR	1	CML ECL	ECL	3.3 5	3000	0.25	0.2	170	TSSOP-8
MC100EP08DTR2G		Pb-free Halide free	Active	XOR/XNOR	1	ECL CML	ECL	3.3 5	3000	0.25	0.2	170	TSSOP-8

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