

Product Overview

MC100LVEL11: ECL 1:2 Differential Clock/Data Fanout Buffer

For complete documentation, see the data sheet.

The MC100LVEL11 is a differential 1:2 fanout buffer. The device is functionally similar to the E111 device but with higher performance capabilities. Having within-device skews and output transition times significantly improved over the E111, the LVEL11 is ideally suited for those applications which require the ultimate in AC performance. The differential inputs of the LVEL11 employ clamping circuitry to maintain stability under open input conditions. If the inputs are left open (pulled to VEE) the Q outputs will go LOW.

Features

- 330 ps Propagation Delay
- 5 ps Skew Between Outputs
- High Bandwidth Output Transitions
- ESD Protection: >4 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 Inputs Open or at VEE
- Meets or Exceeds JEDEC Spec EIA/JESD78 IC Latchup Test

For more features, see the data sheet

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Channels	Input / Output Ratio	Input Level	Output Level	V _{CC} Typ (V)	t _{jitter} MS Typ (ps)	t _{skew(o-r)} Max (ps)	t _{pd} Typ (ns)	t _r & t _f Max (ps)	f _{max} Clock Typ (MHz)	f _{max} Data Typ (Mbps)	Package Type
MC100LVEL11DG		Pb-free Halide free non AEC-Q and PPAP	Active	Buffer	1	1:2	ECL LVD S	ECL	3.3	0.6	20	0.33	320	1000		SOIC-8
MC100LVEL11DR2G		Pb-free Halide free non AEC-Q and PPAP	Active	Buffer	1	1:2	ECL LVD S	ECL	3.3	0.6	20	0.33	320	1000		SOIC-8
MC100LVEL11DTG		Pb-free Halide free non AEC-Q and PPAP	Active	Buffer	1	1:2	ECL LVD S	ECL	3.3	0.6	20	0.33	320	1000		TSSOP-8
MC100LVEL11DTR2G		Pb-free Halide free non AEC-Q and PPAP	Active	Buffer	1	1:2	ECL LVD S	ECL	3.3	0.6	20	0.33	320	1000		TSSOP-8
MC100LVEL11MNR4G		Pb-free Halide free non AEC-Q and PPAP	Active	Buffer	1	1:2	ECL LVD S	ECL	3.3	0.6	20	0.33	320	1000		DFN-8

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

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