

製品概要

MC100LVEL16: Differential Receiver

技術情報は、データシートをご参照ください。

The MC100LVEL16 is a differential receiver. The device is functionally equivalent to the EL16 device, operating from a 3.3 V supply. The LVEL16 exhibits a wider VIHCMR range than its EL16 counterpart. With output transition times and propagation delays comparable to the EL16 the LVEL16 is ideally suited for interfacing with high frequency sources at 3.3 V supplies. Under open input conditions, the Q input will be pulled down to VEE and the Qbar input will be biased to VCC/2. This condition will force the Q output low. The VBB pin, an internally generated voltage supply, is available to this device only. For single-ended input conditions, the unused differential input is connected to VBB as a switching reference voltage. VBB may also rebias AC coupled inputs. When used, decouple VBB and VCC via a 0.01 F capacitor and limit current sourcing or sinking to 0.5 mA. When not used, VBB should be left open.

特長

- 300 ps 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 on D, Pullup and Pulldown Resistors on Dbar
- Q Output will Default LOW with 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

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製品	Compliance	Status	Type	Channels	Input / Output Ratio	Input Level	Output Level	V _{CC} Typ (V)	t _{jitter, RMS} Typ (ps)	t _{skew(o-p)} Max (ps)	t _{pd} Typ (ns)	t _R & t _F Max (ps)	f _{max,Clock} Typ (MHz)	f _{max,Data} Typ (Mbps)	Package Type
MC100LVEL16DG	Pb-free Halide free	Active	Signal Driver	1	1:1	ECL LVD S	ECL	3.3	0.7	20	0.3	320	1000		SOIC-8
MC100LVEL16DR2G	Pb-free Halide free	Active	Signal Driver	1	1:1	LVD S ECL	ECL	3.3	0.7	20	0.3	320	1000		SOIC-8
MC100LVEL16DTG	Pb-free Halide free	Active	Signal Driver	1	1:1	LVD S ECL	ECL	3.3	0.7	20	0.3	320	1000		TSSOP-8
MC100LVEL16DTR2G	Pb-free Halide free	Active	Signal Driver	1	1:1	ECL LVD S	ECL	3.3	0.7	20	0.3	320	1000		TSSOP-8
MC100LVEL16MNR4G	Pb-free Halide free	Active	Signal Driver	1	1:1	LVD S ECL	ECL	3.3	0.7	20	0.3	320	1000		DFN-8

詳細は、弊社 www.onsemi.jp の営業または販売代理店にお問い合わせください。

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