

Product Overview

MC100EP16T: Differential Driver / Receiver with Internal Termination

For complete documentation, see the data sheet.

The EP16T is a world-class differential receiver/driver. The device is functionally equivalent to the EP16 with internal termination resistors. A 50 resistor is connected from the D input to the VT pin and from the Dbar input to the VTbar pin. Tie the VT and VTbar pins to VTT supply (VCC - 2 V) for parallel termination or connect VT and VTbar pins for 100 input series termination. Special considerations are required for differential inputs under No Signal conditions to prevent instability. The 100 Series contains temperature compensation.

Features

- 220 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
- Internal 50 Ω Termination Resistors

Applications

- Low-Clock Skew

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Channels	Input / Output Ratio	Input Level	Output Level	V _{CC} Typ (V)	t _{jitter} ^{RMS} Typ (ps)	t _{skew(o)} Max (ps)	t _{pd} Typ (ns)	t _R & t _F Max (ps)	f _{max} Clock Typ (MHz)	f _{max} Data Typ (Mbps)	Package Type
MC100EP16TDTG		Pb-free Halide free	Active	Signal Driver	1	1:1	CM L ECL	ECL	5 3.3	0.2	20	0.24	170	3000		TSSOP-8

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

Created on: 1/28/2020