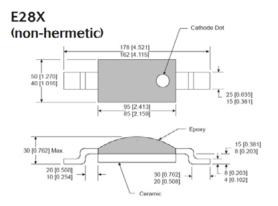
MBD1037-E28X Planar Tunnel Diode



Technical Characteristics



Product Features

Rugged Germanium Planar Construction

Excellent Temperature Stability

No DC Bias Required

Wide Video Bandwidth

MIL-STD-190500 & 883 Qualified

Product Description

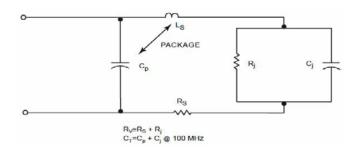
EclipseMDI MBD1037-E28X, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth and is MIL STD-190500 & MIL-STD-883C qualified. The MBD1037-E28X is also available in a hermetic (E28) ceramic packages.

Maximum Ratings

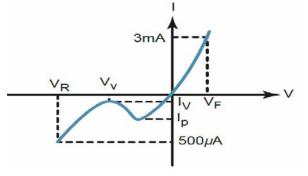
Storage Temperature......65° to +125°C Operating Temperature......65° to +110°C Input Power Handling......+17dBm CW or 3 ERG spike Soldering Temperature.....+160° C

Parameters	Specifications				
	Conditions	MIN	Typical	MAX	UNITS
lp		50		100	μA
Cj	Vr=Vv, f=100MHz			.30	pF
K[Y]	Pin=-20dBm		1200		mV/mW
Rv	R)Load)=10K, f=10GHz		200		Ω Ohms
lp/lv		2.5			
Vr	lf=500μA		430		mV
Vf	If=3mA			140	mV

Diode equivalent circuit



Back diode parameters



About EclipseMDI

ECLIPSE Microdevices is located in San Jose, California. ECLIPSE has been developing high performance analog semiconductors for use in wireless radio frequency (RF), microwave, and millimeter wave for commercial and industrial applications. ECLIPSE has formed a strategic alliances - with foundries that features leading state-of-the-art process technologies and with manufacturing facilities for high-volume production of innovative RFIC's. Product Export Classificiation ECCN: EAR 99 (unless otherwise specified)

HTS: 8542330000

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