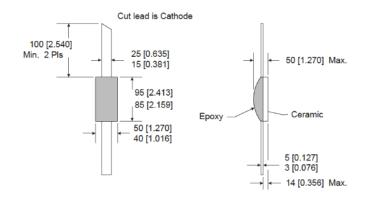
# MBD2037-E28 Planar Tunnel Diode

## E28 Non-Hermetic



### **Technical Characteristics**



## **Product Features**

Rugged Germanium Planar Construction

**Excellent Temperature Stability** 

No DC Bias Required

Wide Video Bandwidth

## **Product Description**

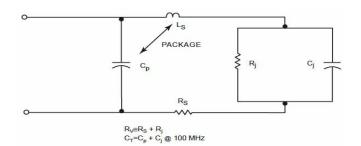
EclipseMDI MBD2037-E28, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth. The MBD2037 is also available in non-hermetic (E28X) ceramic packages.

## **Maximum Ratings**

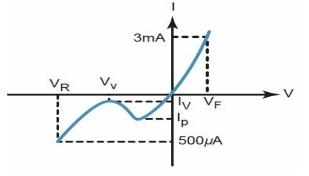
Storage Temperature.....-65° to +125°C Operating Temperature.....-65° to +110°C Input Power Handling.....+17dBm CW or 3 ERG spike Soldering Temperature.....+160° C

Parameters	Specifications				
	Conditions	MIN	Typical	MAX	UNITS
lp		150		200	μΑ
Cj	Vr=Vv, f=100MHz			.30	pF
K[Y]	Pin=-20dBm		950		mV/mW
Rv	R)Load)=10K, f=10GHz		180		Ω Ohms
lp/lv		2.5			
Vr	lf=500μA		420		mV
Vf	lf=3mA			135	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.

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