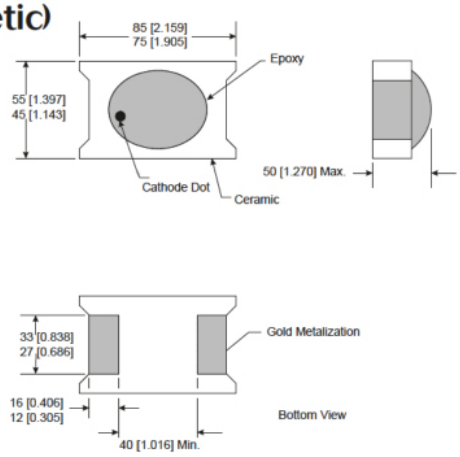
MBD2037-0805-2 Planar Tunnel Diode

Technical Characteristics

0805-2
(non-hermetic)



Product Features

- Rugged Germanium Planar Construction
- Excellent Temperature Stability
- No DC Bias Required
- Wide Video Bandwidth

Product Description

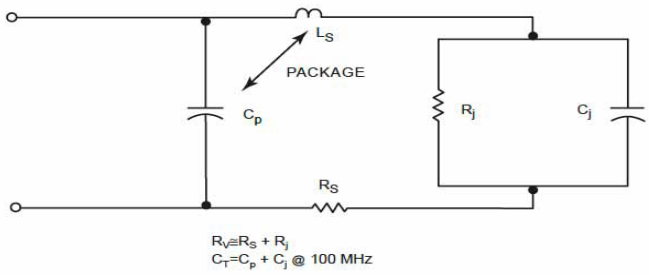
EclipseMDI MBD2037-0805-2, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth.

Maximum Ratings

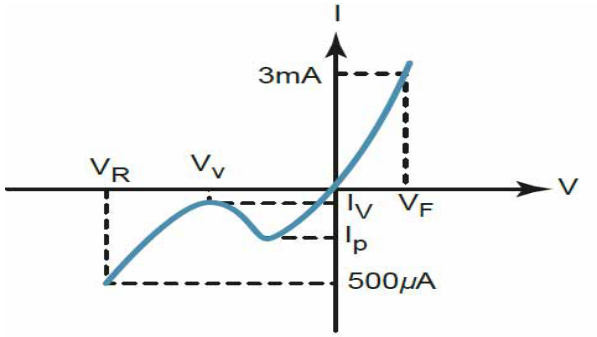
Storage Temperature.....-65° to +125°C
Operating Temperature.....-65° to +110°C
Input Power Handling.....+17dBm CW
or 3 ERG spike
Soldering Temperature.....+160° C

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

ECCN: EAR 99 (unless otherwise specified)
HTS: 8542330000

www.eclipseMDI.com
1.408.526.1100
EclipseMDI