

MBD2057-0805-2 Planar Tunnel Diode



Technical Characteristics

Product Features

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

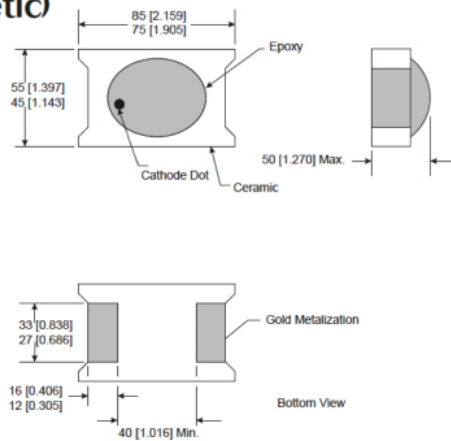
Product Description

EclipseMDI MBD2057-0805-2, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth.

Maximum Ratings

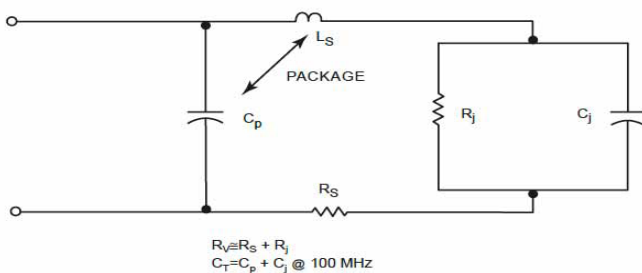
- Storage Temperature.....-65° to +125°C
- Operating Temperature.....-65° to +110°C
- Input Power Handling.....+17dBm CW or 3 ERG spike
- Soldering Temperature.....+160° C

0805-2 (non-hermetic)

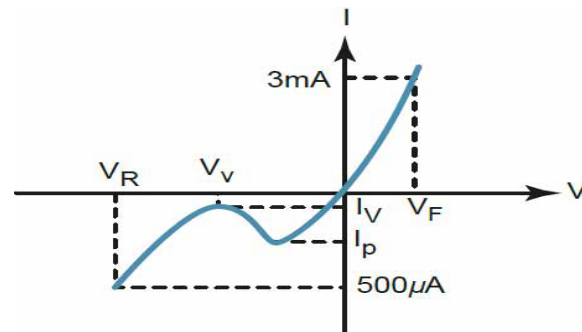


Parameters	Specifications				UNITS
	Conditions	MIN	Typical	MAX	
I _p		200		300	μA
C _j	V _r =V _v , f=100MHz			.30	pF
K[Y]	Pin=-20dBm R _{Load} =10K, f=10GHz		750		mV/mW
R _v			130		Ω Ohms
I _p /I _v		2.5			
V _r	I _f =500μA		410		mV
V _f	I _f =3mA			130	mV

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 Classification

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