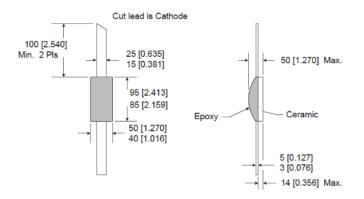
MBD3047-E28 Planar Tunnel Diode

ECLIPSEMOI microwave devices, inc

E28 Non-Hermetic



Technical Characteristics

Product Features

Rugged Germanium Planar Construction

Excellent Temperature Stability

No DC Bias Required

Wide Video Bandwidth

Product Description

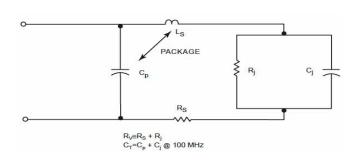
EclipseMDI MBD3047-E28, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth. The MBD3047 is also available in hermetic (E28X) ceramic packages.

Maximum Ratings

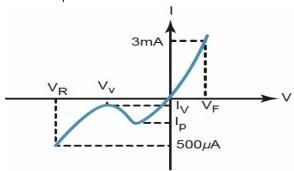
Storage Temperature.....-65° to +125°C
Operating Temperature...-65° to +110°C
Input Power Handling...+17dBm CW
or 3 ERG spike
Soldering Temperature...+160° C

	Specifications				
Parameters	Conditions	MIN	Typical	MAX	UNITS
lp		300		350	μΑ
Cj	Vr=Vv, f=100MHz			.30	pF
K[Y]	Pin=-20dBm		550		mV/mW
Rv	R)Load)=10K, f=10GHz		110		Ω Ohms
lp/lv		2.5			
Vr	If=500μA		400		mV
Vf	If=3mA			125	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



