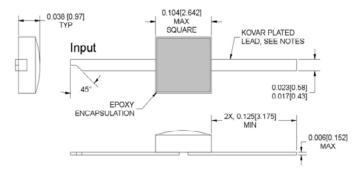
MBD1057-H20X Planar Tunnel Diode

ECLIPSEMOI microwave devices, inc

Technical Characteristics

H20X Non-Hermetic



Product Features

Rugged Germanium Planar Construction

Excellent Temperature Stability

No DC Bias Required

Wide Video Bandwidth

MIL-STD-190500 & 883 Qualified

Product Description

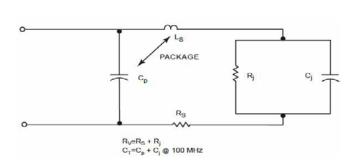
EclipseMDI MBD1057-H20X, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth and is MIL STD-190500 & MIL-STD-883C qualified. The MBD1057 is also available in hermetic (H20) ceramic packages.

Maximum Ratings

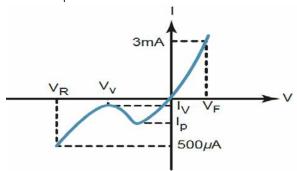
Storage Temperature.....-65° to +125°C
Operating Temperature...-65° to +110°C
Input Power Handling...+17dBm CW
or 3 ERG spike
Soldering Temperature...+160° C

	Specifications				
Parameters	Conditions	MIN	Typical	MAX	UNITS
lp		100		200	μA
Cj	Vr=Vv, f=100MHz			.30	pF
K[Y]	Pin=-20dBm		1000		mV/mW
Rv	R)Load)=10K, f=10GHz		180		Ω Ohms
lp/lv		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 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.

Quality products that serve the industry. Today and tomorrow.

Product Export Classificiation

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



