

MBD3057-H20X Planar Tunnel Diode



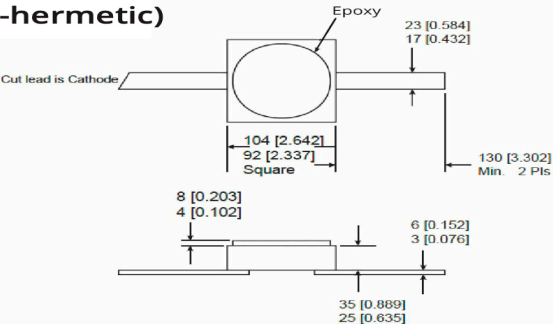
Technical Characteristics

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

Product Description
EclipseMDI MBD3057-H20X, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth. The MBD3057 is also available in hermetic (H20) ceramic packages.

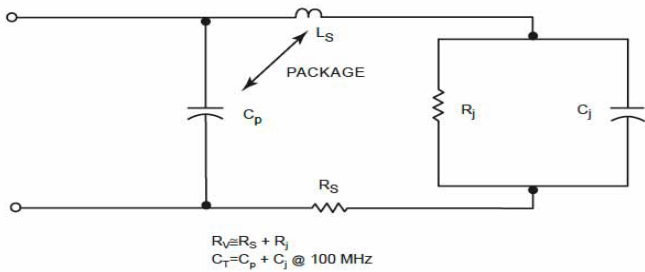
Maximum Ratings
Storage Temperature.....-65° to +125°C
Operating Temperature.....-65° to +110°C
Input Power Handling.....+17dBm CW or 3 ERG spike
Soldering Temperature.....+160° C

H20X
(non-hermetic)

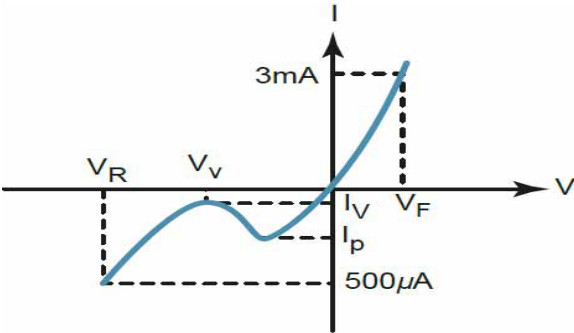


Parameters	Specifications				
	Conditions	MIN	Typical	MAX	UNITS
I _p		300		400	μA
C _j	V _r =V _v , f=100MHz			.30	pF
K[Y]	P _{in} =-20dBm R _l (Load)=10K, f=10GHz		500		mV/mW
R _v			80		Ω Ohms
I _p /I _v		2.5			
V _r	I _f =500μA		400		mV
V _f	I _f =3mA			125	mV

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 Classification

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