MBD2037-H20 Planar Tunnel Diode





H20 (hermetic) Cut lead is Cathode 23 [0.584] 17 [0.432] 104 [2.642] 92 [2.337] Square 8 [0.203] 4 [0.102] 1 6 [0.152] 3 [0.076]

35 [0.889] 25 [0.635]

Product Features

Rugged Germanium Planar Construction

Excellent Temperature Stability

No DC Bias Required

Wide Video Bandwidth

MIL-STD-190500 & 883 Qualified

Product Description

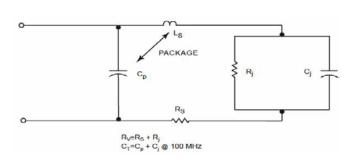
EclipseMDI MBD2037-H20, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth and is MIL STD-190500 & MIL-STD-883C qualified. The MBD2037-H20 is also available in a non-hermetic (H20X) ceramic packages.

Maximum Ratings

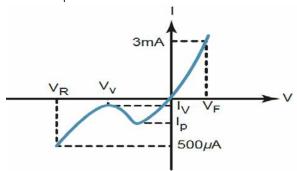
Storage Temperature.....-65° to +125°C
Operating Temperature...-65° to +110°C
Input Power Handling...+17dBm CW
or 3 ERG spike
Soldering Temperature...+160° C

	Specifications Specification				
Parameters	Conditions	MIN	Typical	MAX	UNITS
lp		150		200	μΑ
Cj	Vr=Vv, f=100MHz			.30	pF
K[Y]	Pin=-20dBm		950		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.

Product Export Classificiation

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



