MBD4057-H20 Planar Tunnel Diode





H₂0 23 [0.584] (hermetic) 17 [0.432] Cut lead is Cathode 104 [2.642] 92 [2.337] 130 [3.302] Min. 2 Pls 8 [0.203] 4 [0.102] 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

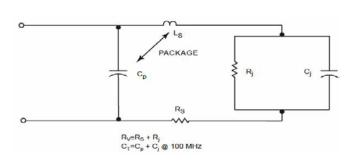
EclipseMDI MBD4057-H20, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth and is MIL STD-190500 & MIL-STD-883C qualified. The MBD4057 is also available in a non-hermetic (H20X) ceramic packages.

Maximum Ratings

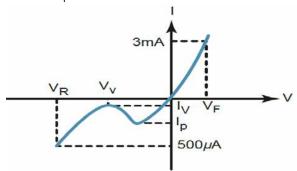
Storage Temperature.....-65° to +125°C Operating Temperature.....-65° to +110°C Input Power Handling.....+17dBm CW or 3 ERG spike Soldering Temperature.....+160° C

	Specifications				
Parameters	Conditions	MIN	Typical	MAX	UNITS
lp		350		500	μΑ
Cj	Vr=Vv, f=100MHz			.30	pF
K[Y]	Pin=-20dBm		275		mV/mW
Rv	R)Load)=10K, f=10GHz		65		Ω Ohms
lp/lv		2.5			
Vr	If=500μA		400		mV
Vf	If=3mA			120	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





