MBD3057-H20 Planar Tunnel Diode

104 [2.642]

92 [2.337]

Square

8 [0.203] 4 [0.102]

23 [0.584] 17 [0.432]

6 [0.152]

3 [0.076]

130 [3.302]



Technical Characteristics

Product Features

Rugged Germanium Planar Construction

Excellent Temperature Stability

No DC Bias Required

Wide Video Bandwidth

Product Description

EclipseMDI MBD3057-H20, 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 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+	60° C

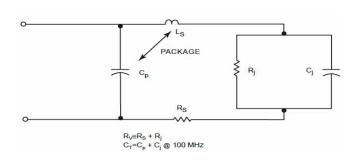
	Specifications Specification					
Parameters	Conditions	MIN	Typical	MAX	UNITS	
lp		300		400	μA	
Cj	Vr=Vv, f=100MHz			.30	pF	
K[Y]	Pin=-20dBm		500		mV/mW	
Rv	R)Load)=10K, f=10GHz		80		Ω Ohms	
lp/lv		2.5				
Vr	If=500μA		400		mV	
Vf	If=3mA			125	mV	

Diode equivalent circuit

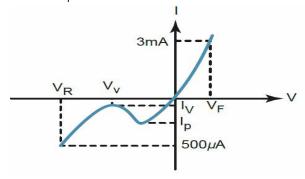
H20

(hermetic)

Cut lead is Cathode



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



