MBD1057-H20X Planar Tunnel Diode

0.104[2.642]

MAX

KOVAR PLATED LEAD, SEE NOTES

___2X, 0.125[3.175] ____ MIN

0.023[0.58]

0.017[0.43]

0.006[0.152] MAX



Technical Characteristics

Product Features

Rugged Germanium Planar Construction

Excellent Temperature Stability

No DC Bias Required

Wide Video Bandwidth

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. 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

Parameters	Specifications					
	Conditions	MIN	Typical	MAX	UNITS	
lp		100		200	μA	
Cj	Vr=Vv, f=100MHz			.30	pF	
K[Y]	Pin=-20dBm R)Load)=10K, f=10GHz		1000		mV/mW	
Rv			180		Ω Ohms	
lp/lv		2.5				
Vr	If=500μA		420		mV	
Vf	lf=3mA			135	mV	

Diode equivalent circuit

H20X Non-Hermetic

Input

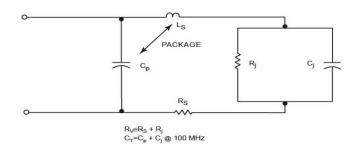
45

FPOXY

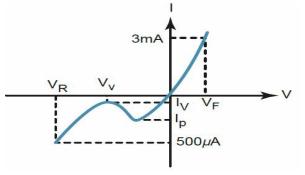
ENCAPSULATION

0.038 [0.97]

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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

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