MBD3037-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 MBD3037-H20X, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth. The MBD3037 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		250		300	μA
Cj	Vr=Vv, f=100MHz			.30	pF
K[Y]	Pin=-20dBm R)Load)=10K, f=10GHz		650		mV/mW
Rv			130		Ω Ohms
lp/lv		2.5			
Vr	lf=500μA		410		mV
Vf	If=3mA			130	mV

Diode equivalent circuit

H20X Non-Hermetic

Input

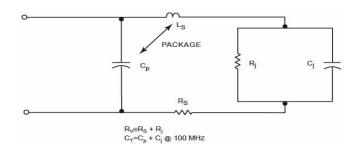
45

FPOXY

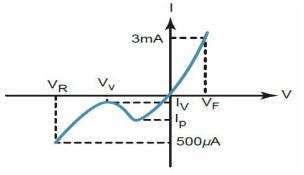
ENCAPSULATION

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)

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