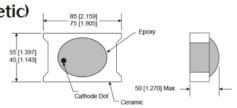
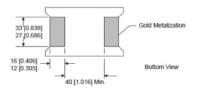
MBD3037-0805-2 Planar Tunnel Diode

Technical Characteristics

0805-2 (non-hermetic)





Product Features

Rugged Germanium Planar Construction

Excellent Temperature Stability

No DC Bias Required

Wide Video Bandwidth

Product Description

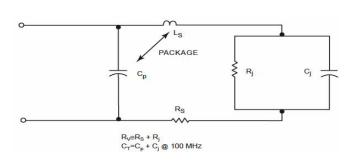
EclipseMDI MBD3037-0805-2, is a zero-bias, rugged Planar Tunnel Diode constructed with Germanium Planar. This tunnel diode exhibits excellent temperature stability, wide video bandwidth.

Maximum Ratings

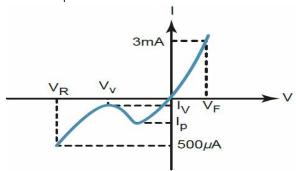
Storage Temperature.....-65° to +125°C Operating Temperature.....-65° to +110°C Input Power Handling.....+17dBm CW or 3 ERG spike Soldering Temperature.....+160° C

| | Specifications Specification Specificatio | | | | |
|------------|--|-----|---------|-----|--------|
| Parameters | Conditions | MIN | Typical | MAX | UNITS |
| lp | | 250 | | 300 | μΑ |
| Cj | Vr=Vv, f=100MHz | | | .30 | pF |
| K[Y] | Pin=-20dBm | | 650 | | mV/mW |
| Rv | R)Load)=10K, f=10GHz | | 130 | | Ω Ohms |
| lp/lv | | 2.5 | | | |
| Vr | If=500μA | | 410 | | mV |
| Vf | If=3mA | | | 130 | 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





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