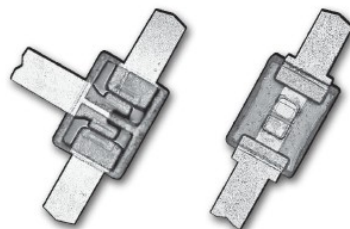


Planar Beam Lead PIN Diode

Rev. V1

Features

- Single / Common-Anode Configurations
- 4 Gram Minimum Lead Pull
- Oxide / Nitride / Polyimide Triple Passivation for High Reliability



Description

The planar beam lead PIN diodes provide low microwave capacitance with exceptional lead strength. The high beam strength offers the users superior assembly yield. The oxide / nitride / polyimide passivation offers high reliability with low reverse leakage current and high temperature performance.

Electrical Specifications¹: $T_A = +25^\circ\text{C}$

Part #	Configuration	Reverse Current (I_R) $V_R = 30\text{ V}$	Breakdown Voltage (V_{BR}) $I_R = 10\text{ }\mu\text{A}$	Junction Capacitance (C_J) $V_R = 10\text{ V}, 15\text{ GHz}$	Series Resistance (R_S) $I_F = 20\text{ mA}, 3\text{ GHz}$	Lifetime (t)
		nA	V	pF	Ω	ns
		Max.	Min.	Max.	Max.	Typ.
MPND4005-B15	Single	100	100	0.02	6.5	125
MPND4005-B16	Common Anode					

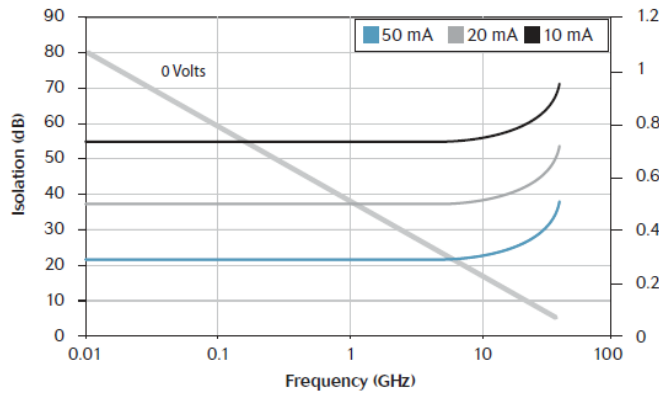
1. All devices available in a variety of packages. Consult factory for special version, high reliability screening or custom designs.

Absolute Maximum Ratings

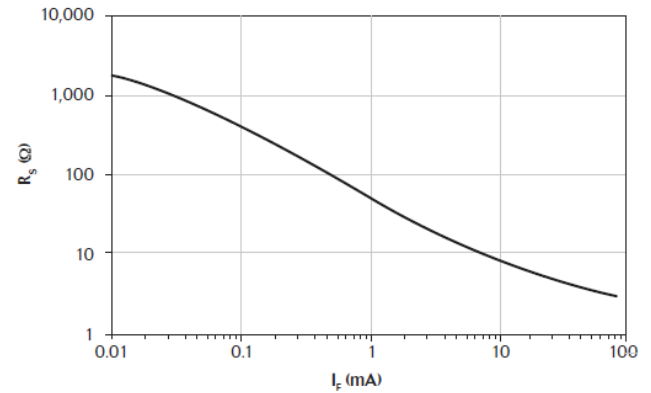
Parameter	Absolute Maximum
Total Power Dissipation	250 mW @ 25°C , Derate linearly to 0 @ $+175^\circ\text{C}$
Operating Temperature	-65°C to $+175^\circ\text{C}$
Storage Temperature	-65°C to $+200^\circ\text{C}$
Terminal Strength	4 grams minimum

Typical Performance Curves

Isolation vs. Frequency

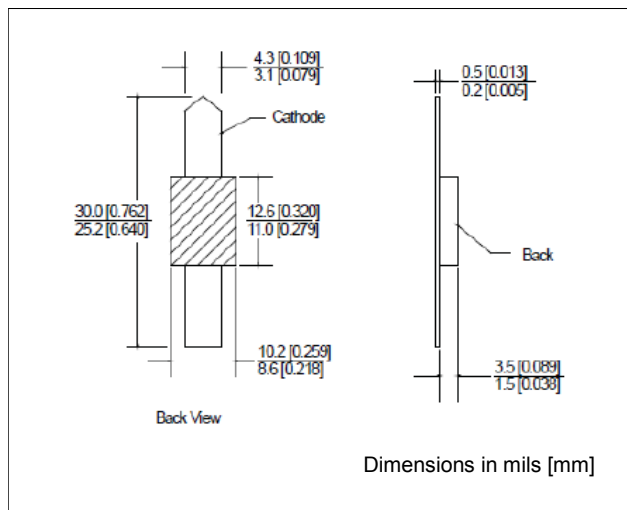


Forward Resistance vs. Current

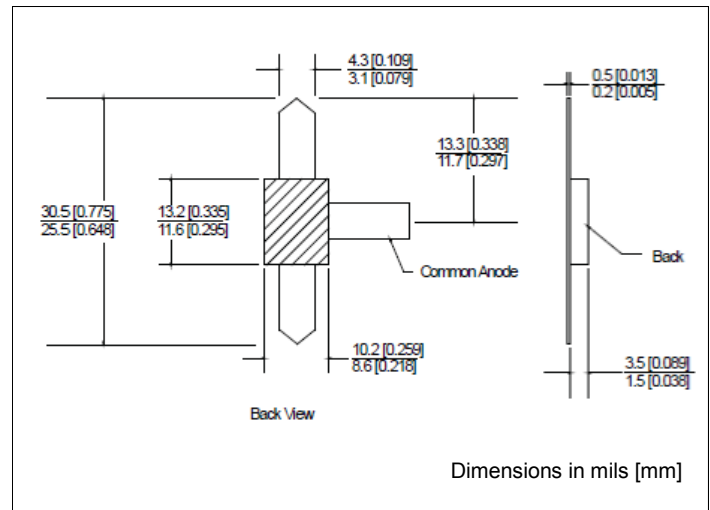


Outlines

B15



B16



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