Control Devices: MPN 1000 Series

Beam Lead PIN Diodes

Description

The **MicroMetrics** MPN 1000 series Beam Lead PIN diodes features a unique glass and beam construction which allows for mechanical strength and stability during assembly. They are designed for low resistance, low capacitance and fast switching time.

MicroMetrics Mesa Beam Lead pins are suitable for microstrip or stripline circuits and for circuits requiring high isolation from series mounted diodes as in broadband multi-throw switches, phase shifters, attenuators, limiters and modulators.

Applications

The MPN series of beam leads are ideally suited for microstrip or stripline circuits and for circuits requiring high isolation from a series mounted diode such as multi-throw switches, phase shifters, limiters, attenuators and modulators.

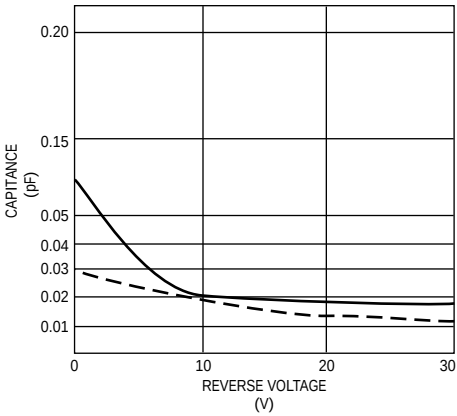
Features

- Fast Switching Speed
- Low Capacitance
- Low Resistance
- Rugged Construction

Packaging

- Beam Lead

Typical Performance



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Electrical Characteristics

V_b @ 10 μA MIN (V)	C_j -10 Vdc MAX (pF)	R_S 10 mA MAX (Ohms)	R_S 50 mA MAX (Ohms)	T_I 6 mA/10 mA TYP (nS)	T_S 20% - 80% MAX (nS)	Part Number
100	.020	6.5	4.0	80	5	MPN1000-12
100	.027	6.0	3.5	80	5	MPN1001-12
100	.030	5.5	3.2	80	5	MPN1002-12
100	.035	5.0	2.9	80	5	MPN1003-12
100	.040	5.0	2.7	80	5	MPN1004-12
100	.048	5.0	2.5	80	5	MPN1005-12
100	.055	4.0	2.3	80	5	MPN1006-12
100	.065	4.0	2.1	80	5	MPN1007-12
50	.025	6.0	3.7	50	3	MPN1100-12
50	.030	5.0	3.5	50	3	MPN1101-12
50	.040	4.5	2.9	50	3	MPN1102-12
50	.060	4.0	2.5	50	3	MPN1103-12

Notes:
Typical forward voltage at 50 mA .90 to 1.05.

Maximum Ratings

Operating Temperature	-55°C to + 150°C
Storage Temperature	-65°C to + 200°C
Power Dissipation	250 mW
Typical Lead Strength	6 grams