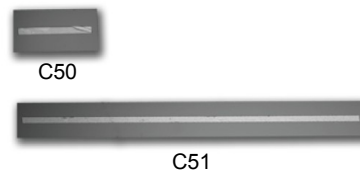# MMPN080x Series

MACOM™

PIN Diodes

Features

- High Isolation
- Broadband Performance up to 50 GHz

Description

The MMPN series are distributed PIN diodes that are integrated into a 50 Ω microstrip transmission line. These PIN diodes are designed to be operated as shunt, reflective attenuators.

C50

C51

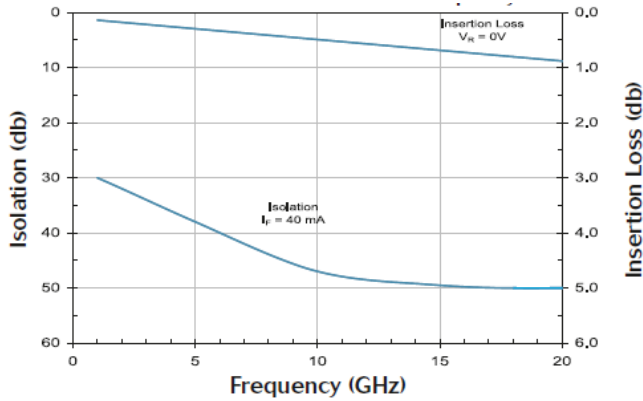## Electrical Specifications: T_A = +25°C

Model	Frequency (GHz)	Maximum Reversed Current (nA)	Minimum Breakdown Voltage (V)	Maximum Insertion Loss (dB)	Minimum Return Loss (dB)	Minimum Isolation (dB)	Outline
MMPN080045	2 - 20	100	200	1	12	30	C50
MMPN080150	2 - 35	200	200	3	12	50	C51
Test Conditions		V_R = 30 V	I_R = 10 μA	V_R = 0 V	V_R = 0 V	I_F = 40 mA	

Absolute Maximum Ratings

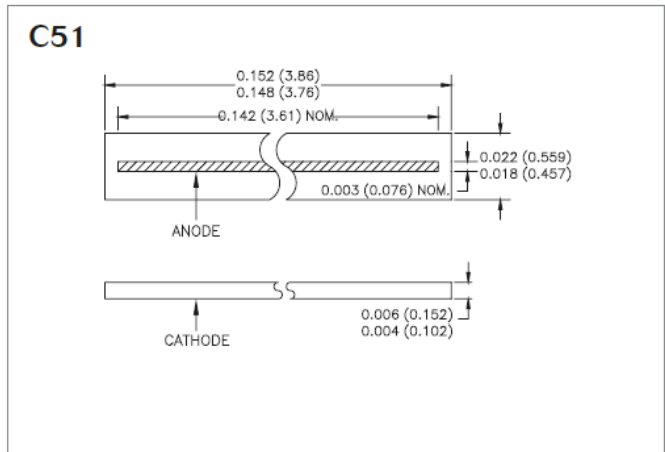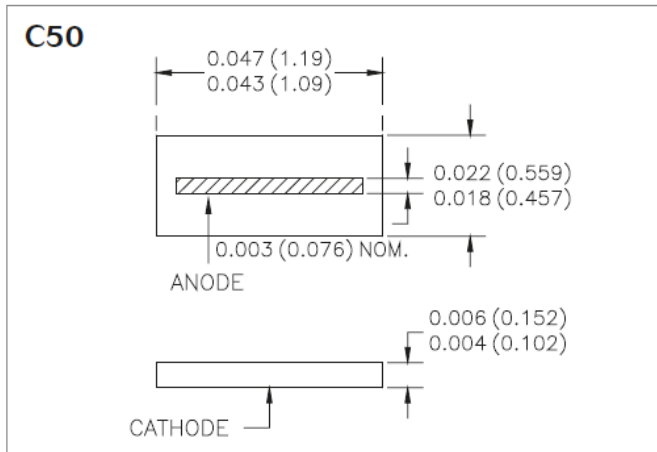| Parameter	Absolute Maximum
Reverse Voltage	200 V
Forward Current	150 mA
Thermal Resistance	60°CW
Junction Temperature	+175°C
Storage Temperature	-65°C to +200°C
Mounting / Bonding Temperature	+320°C for 10 seconds

Typical RF Performance Curves @ +25°C

Insertion Loss & Isolation - MMPN080045

Insertion Loss & Isolation - MMPN080150

Outline Drawings

C50

0.047 (1.19)
0.043 (1.09)

0.022 (0.559)
0.018 (0.457)

0.003 (0.076) NOM.

ANODE

0.006 (0.152)
0.004 (0.102)

CATHODE

C51

0.152 (3.86)
0.148 (3.76)

0.142 (3.61) NOM.

0.022 (0.559)
0.018 (0.457)

0.003 (0.076) NOM.

ANODE

0.006 (0.152)
0.004 (0.102)

CATHODE

For further information and support please visit:
https://www.macom.com/support

DC-0015357

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