MNP0008

Silicon NIP Diode

Rugged Construction

Fully Passivated

38534 Available

Low Leakage

Features

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The MNP0008 Series are silicon NIP diodes that features a fully passivated mesa construction for low leakage and reliability.

Available in Both Chip and Package Styles

Screening per MIL-PRF-19500 and MIL-PRF-

Electrical Specifications: T_c = +25°C

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Voltage Breakdown	I _R = 10 μΑ	V	100	—	—
Junction Capacitance DIE Package (C12p)	V _R = 10 V, 1 MHz	pF		0.08	0.12
Total Capacitance Package Style: ET47p T54p T55p T89p	V _R = 10 V, 1 MHz	pF	_	0.48 0.28 0.21 0.33	0.60 0.37 0.29 0.43
Series Resistance	l _F = 10 mA, 500 MHz	Ω	_	2.0	2.5
Lifetime	I _F = 10 mA, I _R = 6 mA, 50%	ns		150	—
l Layer		μm		10	

Absolute Maximum Ratings^{1,2}

Parameter	Absolute Maximum		
Reverse Voltage	100 V		
Thermal Resistance	+50°C/W		
Operating & Storage Temperature	-65°C to +150°C		

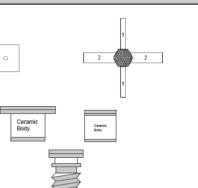
1. Exceeding any one or combination of these limits may cause permanent damage to this device.

2. MACOM does not recommend sustained operation near these survivability limits.

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Rev. V3



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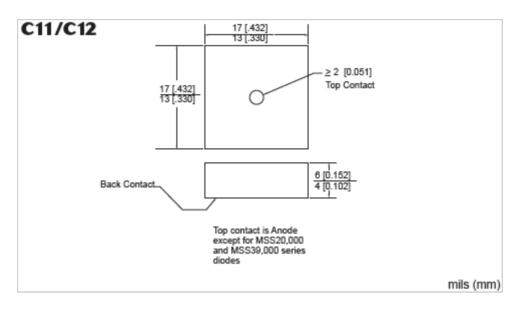
MNP0008

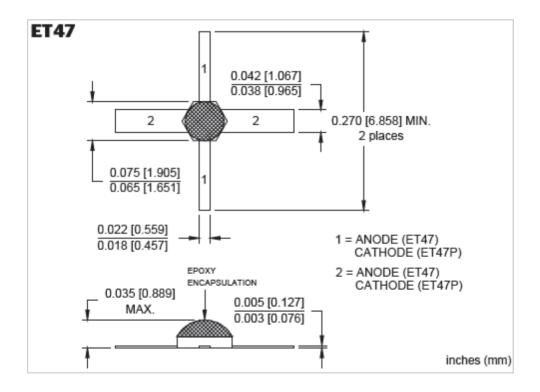
Silicon NIP Diode

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Outline Drawings





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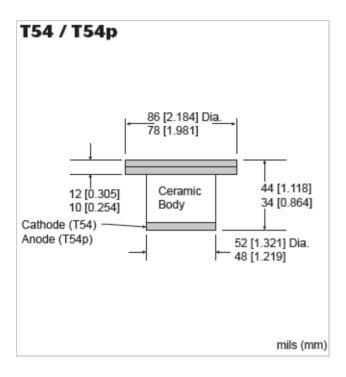
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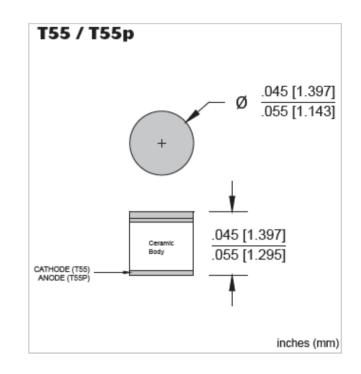
Silicon NIP Diode

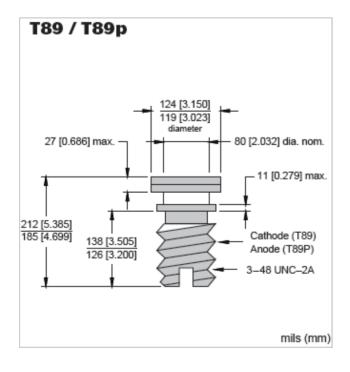


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Outline Drawings







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