MNP0010



Silicon NIP Diode

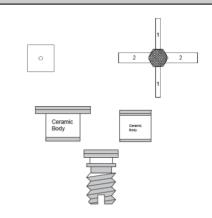
Rev. V2

Features

- Rugged Construction
- · Fully Passivated
- · Low Leakage
- · Available in Both Chip and Package Styles
- Screening per MIL-PRF-19500 and MIL-PRF-38534 Available



The MNP0010 is a silicon NIP diode that features a fully passivated mesa construction for low leakage and reliability.



Electrical Specifications: T_C = +25°C

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Voltage Breakdown	I _R = 10 μA	V	150	_	_
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	I _F = 10 mA, 500 MHz	Ω	_	2.0	2.5
Lifetime	I _F = 10 mA, I _R = 6 mA, 50%	ns	_	300	_
l Layer	_	μm	_	20	_

Absolute Maximum Ratings^{1,2}

Parameter	Absolute Maximum		
Reverse Voltage	150 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.

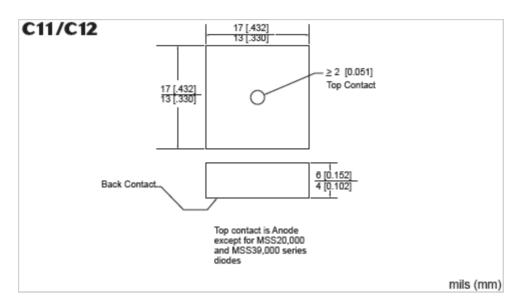
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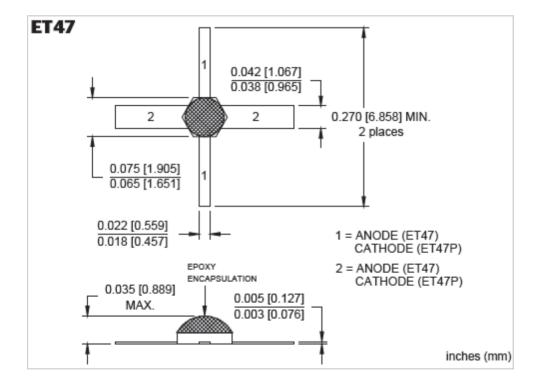


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Outline Drawings



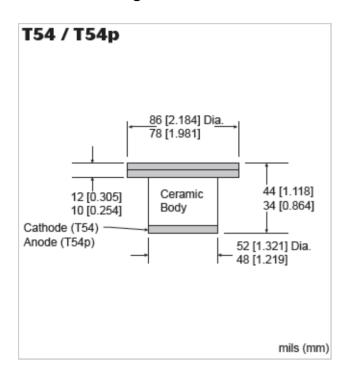


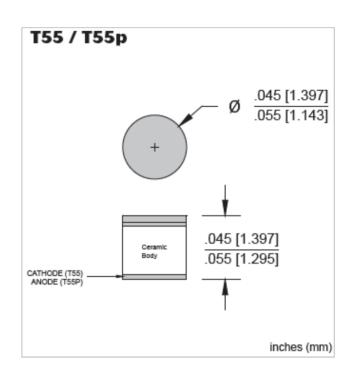


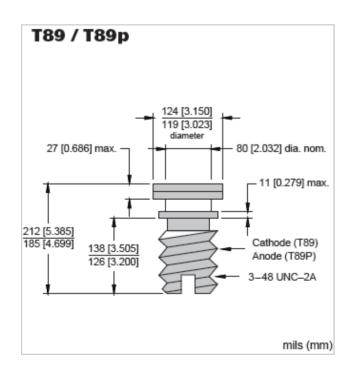
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Outline Drawings







MNP0010



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