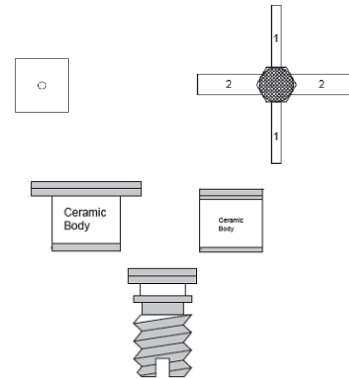


Features

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

Description

The MNP0014 Series are silicon NIP diodes that features a fully passivated mesa construction for low leakage and reliability.



Electrical Specifications: $T_C = +25^\circ\text{C}$

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Voltage Breakdown	$I_R = 10 \mu\text{A}$	V	500	—	—
Junction Capacitance DIE Package (C22p)	$V_R = 50 \text{ V}, 1 \text{ MHz}$	pF	—	0.12	0.18
Total Capacitance Package Style: ET47p T54p T55p T89p	$V_R = 50 \text{ V}, 1 \text{ MHz}$	pF	—	0.52 0.32 0.25 0.37	0.58 0.38 0.31 0.43
Series Resistance	$I_F = 100 \text{ mA}, 500 \text{ MHz}$	Ω	—	1.3	1.6
Lifetime	$I_F = 10 \text{ mA}, I_R = 6 \text{ mA}, 50\%$	ns	—	750	—
I Layer	—	μm	—	80	—

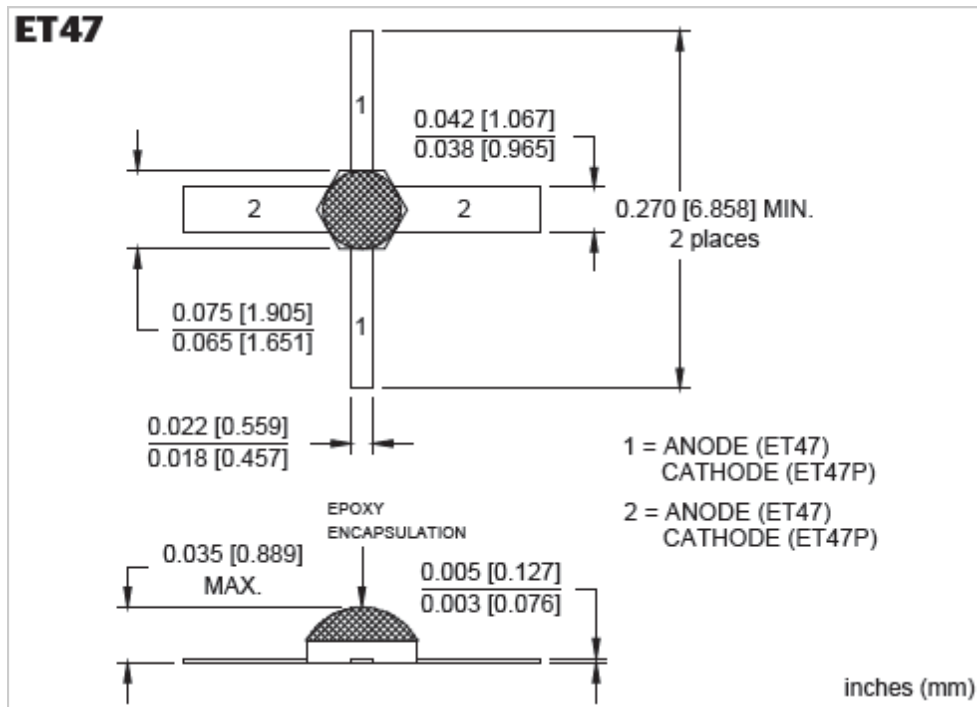
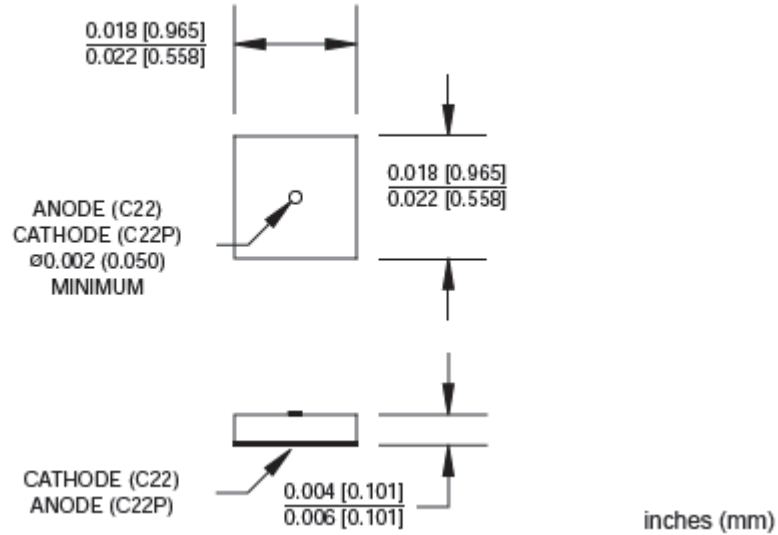
Absolute Maximum Ratings^{1,2}

Parameter	Absolute Maximum
Reverse Voltage	500 V
Thermal Resistance	+10°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.

Outline Drawings

C22



Outline Drawings

