

Features

- Tolerance : Approx. $\pm 5\%$
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

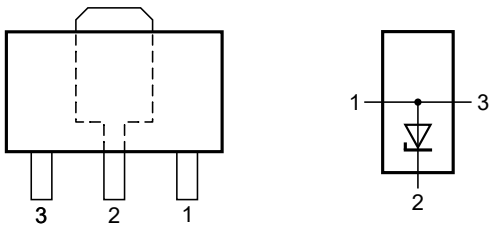
Maximum Ratings

- Operating Junction Temperature Range: -65°C to $+150^{\circ}\text{C}$
- Storage Temperature Range: -65°C to $+150^{\circ}\text{C}$

| Parameter | Symbol | Value | Unit |
|----------------------------|--------|-------|------|
| Power Dissipation | P_D | 1.0 | W |
| Continuous Forward Current | I_F | 250 | mA |

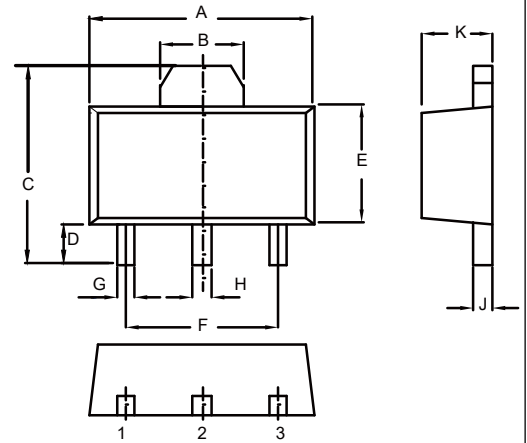
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic



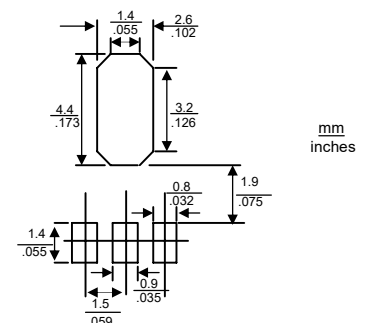
**1.0 Watt
Zener Diodes
3.3 Volts**

SOT-89



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.169 | 0.185 | 4.30 | 4.70 | |
| B | 0.063 | 0.071 | 1.60 | 1.80 | |
| C | 0.154 | 0.171 | 3.91 | 4.35 | |
| D | 0.031 | 0.047 | 0.80 | 1.20 | |
| E | 0.089 | 0.104 | 2.25 | 2.65 | |
| F | 0.118 | --- | 3.00 | --- | TYP |
| G | 0.013 | 0.020 | 0.33 | 0.52 | |
| H | 0.015 | 0.021 | 0.38 | 0.53 | |
| J | 0.014 | 0.017 | 0.35 | 0.44 | |
| K | 0.055 | 0.063 | 1.40 | 1.60 | |

Suggested Solder Pad Layout

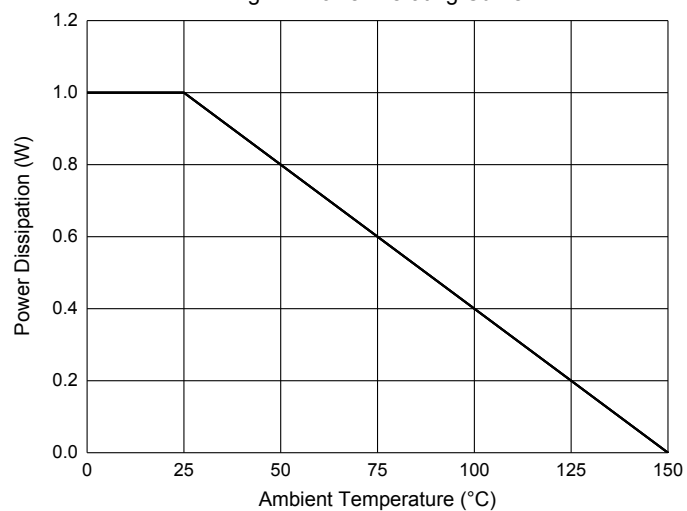


Electrical Characteristics @ 25°C Unless Otherwise Specified

| MCC Part Number | Zener Voltage | | | Maximum Zener Impedance | | Maximum Zener Impedance | | Maximum Forward Voltage Drop | | Maximum Reverse Current | | Maximum Reverse Current | | Marking Code |
|--------------------|----------------------------------|--------|---------|----------------------------|-----------------|----------------------------|-----------------|------------------------------------|----------------|----------------------------|----------------|----------------------------|----------------|-----------------|
| | V _Z @ I _{ZT} | | | I _{ZT} | Z _{ZT} | I _{ZK} | Z _{ZK} | V _F | I _F | I _R | V _R | I _R | V _R | |
| | Min.(V) | Nom(V) | Max.(V) | mA | Ω | mA | Ω | V | mA | μA | V | μA | V | |
| BZV49C3V3 | 3.1 | 3.3 | 3.5 | 5 | 95 | 1.0 | 600 | 1 | 50 | <1 | 1.0 | <100 | 2.0 | BZV493V3 |

Curve Characteristics

Fig. 1 - Power Derating Curve



Ordering Information

| Device | Packing |
|----------------|----------------------|
| Part Number-TP | Tape&Reel:1Kpcs/Reel |

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