

**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)

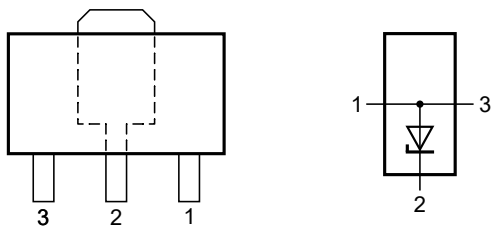
**Maximum Ratings**

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

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

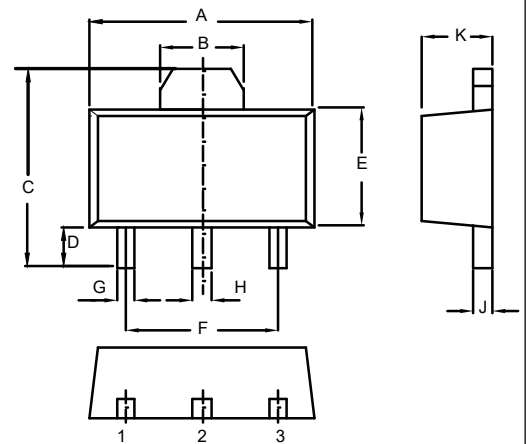
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

**Circuit and Pin Schematic**



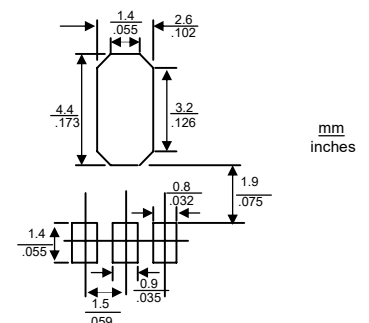
**1.0 Watt  
Zener Diodes  
3.3 Volts**

**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**

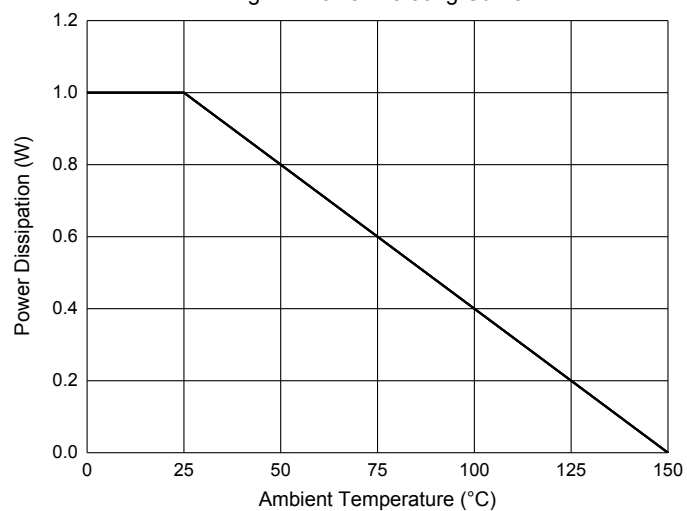


**Electrical Characteristics @ 25°C Unless Otherwise Specified**

MCC Part Number	Zener Voltage			Maximum Zener Impedance		Maximum Zener Impedance		Maximum Forward Voltage Drop		Maximum Reverse Current		Maximum Reverse Current		Marking Code
	V <sub>Z</sub> @ I <sub>ZT</sub>			I <sub>ZT</sub>	Z <sub>ZT</sub>	I <sub>ZK</sub>	Z <sub>ZK</sub>	V <sub>F</sub>	I <sub>F</sub>	I <sub>R</sub>	V <sub>R</sub>	I <sub>R</sub>	V <sub>R</sub>	
	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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