

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Current Leakage
- Small Outline Surface Mount Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction To Ambient(Note2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R	
BAV99HE3	100V	71V	100V	

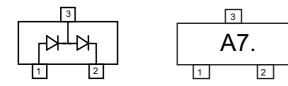
Electrical Characteristics @ 25°C Unless Otherwise Specifie

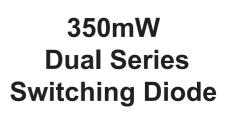
Parameter	Symbol	Value	
Peak Forward Current	I _F	215mA	
Repetitive Peak Forward Current	I _{FRM}	500mA	
Peak Forward Surge Current (t=1s)	I _{FSM}	1A	
(t=0.1ms)	FSM	4A	
Power Dissipation	P _D	350mW	

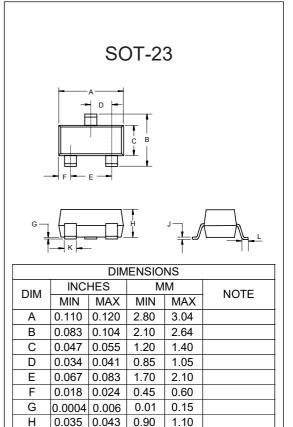
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Valid Provided that Terminals are Kept at Ambient Temperature.

Internal Structure and Marking Code







Suggested Solder Pad Layout

0.08

0.30

0.20

0.18

0.51

0.50

J

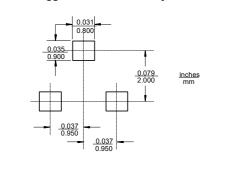
Κ

L

0.003 0.007

0.012 0.020

0.007 0.020





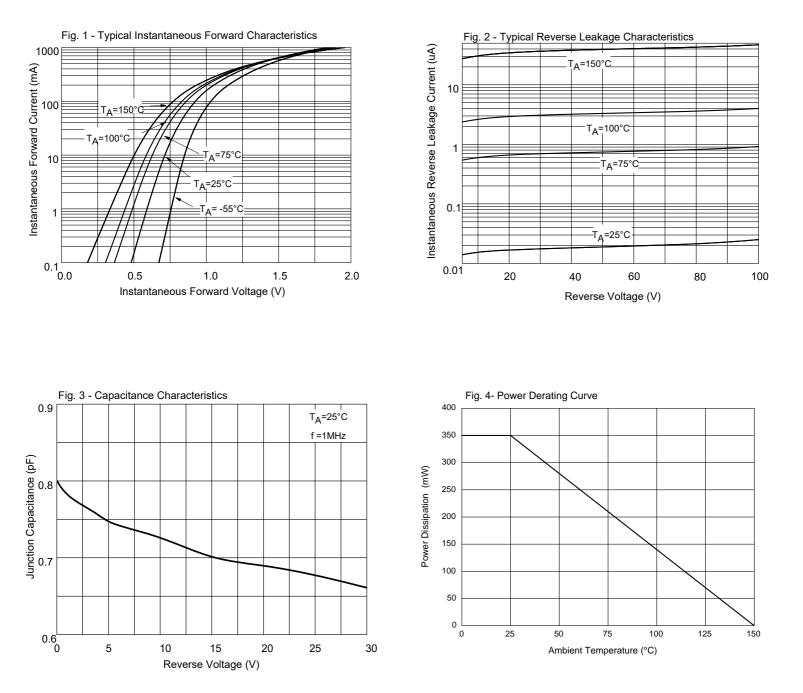
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	Ι _R =100μΑ	100			V
Forward Voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =150mA			1.25	V
Reverse Current	I _R	V _R =75V, T _J =25°C			2.5	μA
		V _R =75V, T _J =150°C			50	μA
		V _R =25V, T _J =150°C			30	μA
Typical Junction Capacitance	CJ	Measured at 1.0MHz, V _R =0V			2	pF
Reverse Recovery Time	t _{rr}	$I_{F}=I_{R}=10\text{mA},$ $I_{rr}=0.1\text{x}I_{R}, R_{L}=100\Omega$			4	ns

3XOVH 7HVW 3XOVH :LGWFKOH VHF 'XW\&



Curve Characteristics







Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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