

#### **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)

# 350mW Dual Series Switching Diode

## **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

MCC Part Number	Device Marking
BAV99HE3	A7

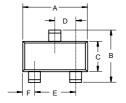
Parameter		Symbol	Value	
DC Blocking Voltage		$V_R$	100V	
Average Rectified Output Current		lo	215mA	
Repetitive Peak Forward Current		I <sub>FRM</sub>	500mA	
Power Dissipation		$P_{D}$	350mW	
Peak Forward Surge Current	t=1s	1	1A	
	t=1µs	I <sub>FSM</sub>	4A	

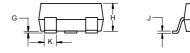
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

#### **Internal Structure**



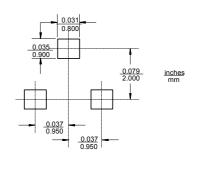
# **SOT-23**





DIMENSIONS					
DIM INCHES		MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

#### Suggested Solder Pad Layout



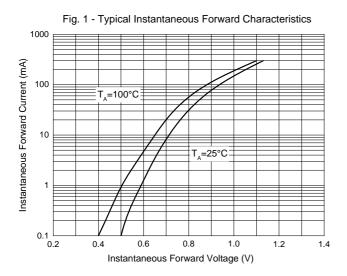


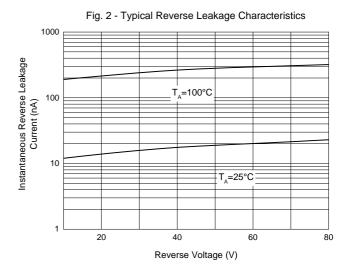
# Electrical Characteristics @ 25°C Unless Otherwise Specified

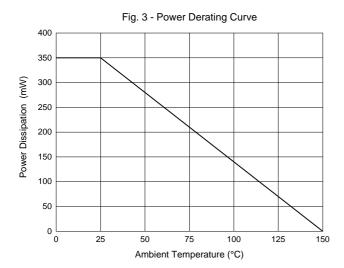
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	$V_{BR}$	I <sub>R</sub> =100μA	100			V
	V <sub>F</sub>	I <sub>F</sub> =1mA			0.715	V
		I <sub>F</sub> =10mA			0.855	V
Forward Voltage		I <sub>F</sub> =50mA			1	V
		I <sub>F</sub> =150mA			1.25	V
Reverse Current I <sub>R</sub>		V <sub>R</sub> =75V, T <sub>J</sub> =25°C			2.5	μΑ
	I <sub>R</sub>	V <sub>R</sub> =75V, T <sub>J</sub> =150°C			50	μΑ
	V <sub>R</sub> =25V, T <sub>J</sub> =150°C			30	μA	
Typical Junction Capacitance	CJ	Measured at 1.0MHz, V <sub>R</sub> =0V		2		pF
Reverse Recovery Time	t <sub>rr</sub>	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1\text{xI}_R, R_L=100\Omega$			4	ns



## **Curve Characteristics**









## **Ordering Information**

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

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