

## **Features**

- · Low Current Leakage
- · Low Cost
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

# **Maximum Ratings**

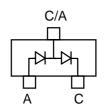
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAV99	A7		

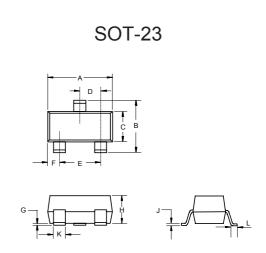
Parameter	Symbol	Value
Reverse Voltage	$V_R$	100V
Average Forward Current	I <sub>F(AV)</sub>	215mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	500mA
Peak Forward Surge Current (t=1µs)	ı	4A
(t=1s)	I <sub>FSM</sub>	1A
Power Dissipation	$P_{D}$	350mW

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

#### **Internal Structure**

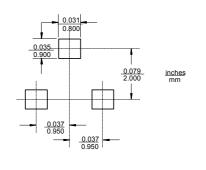


# 350mW Dual Series Switching Diode



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	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	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

#### Suggested Solder Pad Layout



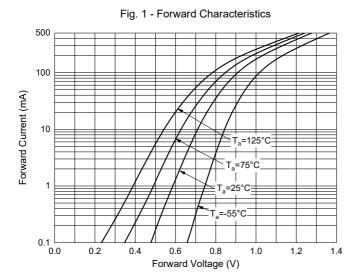


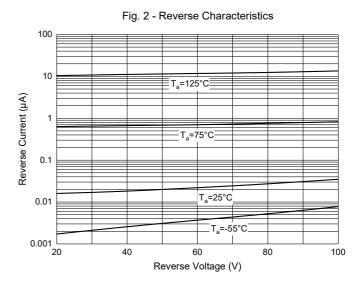
# Electrical Characteristics @ 25°C (Unless Otherwise Specified)

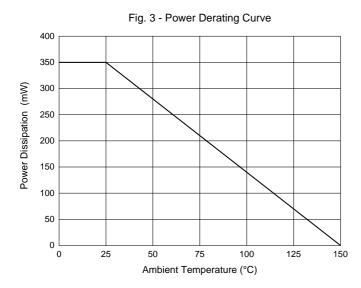
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	$V_{BR}$	I <sub>R</sub> =100μA	100			V
Forward Voltage V <sub>F</sub>		I <sub>F</sub> =1mA			0.715	V
	\ \/	I <sub>F</sub> =10mA			0.855	V
	v <sub>F</sub>	I <sub>F</sub> =50mA			1	V
		I <sub>F</sub> =150mA			1.25	V
		V <sub>R</sub>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



# **Curve Characteristics**









# **Ordering Information**

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		
Part Number-13P	Tape&Reel: 10Kpcs/Reel		

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