

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

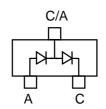
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAV99	A7		

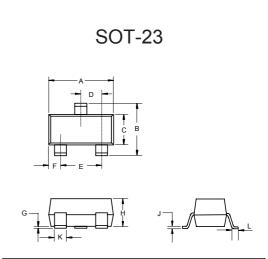
Parameter	Symbol	Value
Reverse Voltage	V_R	100V
Average Forward Current	I _{F(AV)}	215mA
Repetitive Peak Forward Current	I _{FRM}	500mA
Peak Forward Surge Current (t=1µs)		4A
(t=1s)	I _{FSM}	1A
Power Dissipation	P_{D}	350mW

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

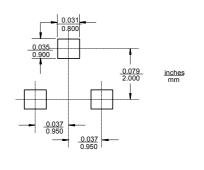


350mW Dual Series Switching Diode



DIMENSIONS						
DIM INCHES		HES	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		
Е	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



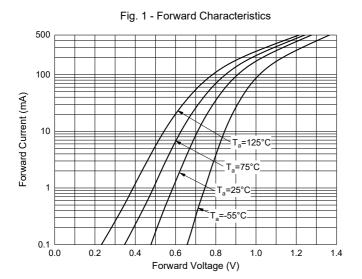


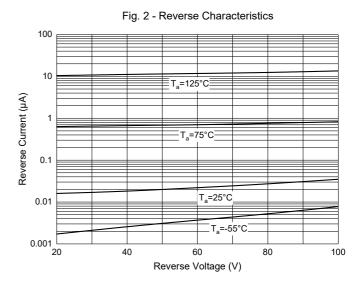
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

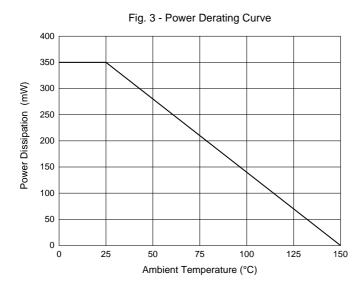
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	I _R =100μA	100			V
Forward Voltage		I _F =1mA			0.715	V
	\ \ \\	I _F =10mA			0.855	V
	V _F	I _F =50mA			1	V
		I _F =150mA			1.25	V
		V _R =75V			2.5	μΑ
Reverse Current	I _R	V _R =75V, T _J =150°C			50	μΑ
	V _R =25V, T _J =150°C			30	μΑ	
Junction Capacitance	Сл	V _R = 0V, f = 1MHz		2		pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA, $I_r=0.1\times I_R, R_L=100\Omega$			4	ns



Curve Characteristics









Ordering Information

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

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