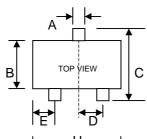
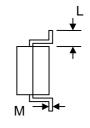


SURFACE MOUNT FAST SWITCHING DIODE

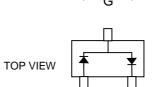
Features

- High Conductance
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose and Switching
- Plastic Material UL Recognition Flammability Classification 94V-O





→ H → I



SOT-23 Dim Min Max 0.37 0.51 Α В 1.40 1.19 С 2.10 2.50 0.89 1.05 D 0.45 0.61 Ε G 1.78 2.05 3.05 Н 2.65 J 0.013 0.15 K 0.89 1.10 L 0.45 0.61 М 0.076 0.178 All Dimensions in mm

Mechanical Data

• Case: SOT-23, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

• Polarity: See Diagram

Weight: 0.008 grams (approx.)

Mounting Position: Any

Marking: JG

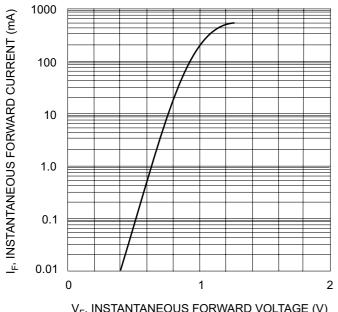
Maximum Ratings @T_A=25°C unless otherwise specified

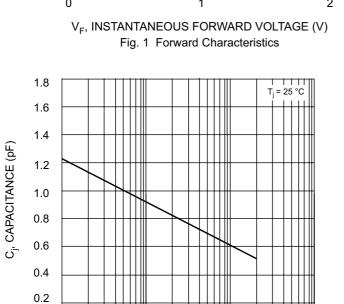
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	75	V
Forward Continuous Current (Note 1)	lF	300	mA
Average Rectified Output Current (Note 1)	lo	150	mA
Peak Forward Surge Current (Note 1) @ t < 1.0μs	I FSM	2.0	Α
Power Dissipation (Note 1)	Pd	350	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	357	K/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	VF	_	0.855 1.0	V	@ IF = 10mA @ IF = 50mA
Reverse Leakage Current	lR	_	2.5	μΑ	@ VR = 75V
Junction Capacitance	Cj	_	2.0	pF	VR = 0V, f = 1.0MHz
Reverse Recovery Time	trr	_	6.0	nS	IF = IR = 10mA, IRR = 0.1 x IR , RL = 100Ω

Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.





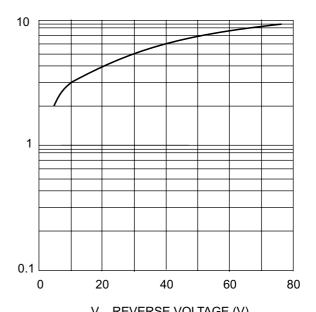
 $\label{eq:VR} {\rm V_{R,}} \; {\rm REVERSE} \; {\rm VOLTAGE} \; ({\rm V})$ Fig. 3 Typical Junction Capacitance vs Reverse Voltage

10

100

1.0

0.1



IR, LEAKAGE CURRENT (nA)

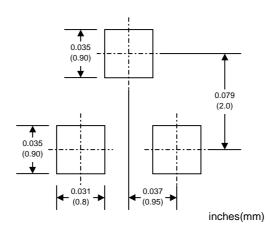
 $\label{eq:VR} {\rm V_R,\,REVERSE\,\,VOLTAGE\,\,(V)}$ Fig. 2 Typical Leakage Current vs Reverse Voltage

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity		
BAV99-T1	SOT-23	3000/Tape & Reel		
BAV99-T3	SOT-23	10000/Tape & Reel		

Products listed in **bold** are WTE **Preferred** devices.

RECOMMENDED FOOTPRINT



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Internet: http://www.wontop.com

We power your everyday.

^{*}T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.