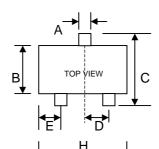
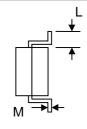


SURFACE MOUNT FAST SWITCHING DIODE

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





Mechanical Data ■ Case: SOT-323, Molded Plastic ■ Terminals: Plated Leads Solderable per

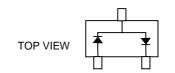
Polarity: See Diagram

• Weight: 0.006 grams (approx.)

MIL-STD-202, Method 208

Mounting Position: Any

Marking: JG



SOT-323				
Dim	Min	Max		
Α	0.30	0.40		
В	1.15	1.35		
С	2.00 2.20			
D	0.65 Nominal			
E	0.30	0.40		
G	1.20	1.40		
Н	1.80	2.20		
J	— 0.10			
K	0.90	1.10		
L	0.25	_		
М	0.05	0.15		
All Dimensions in mm				

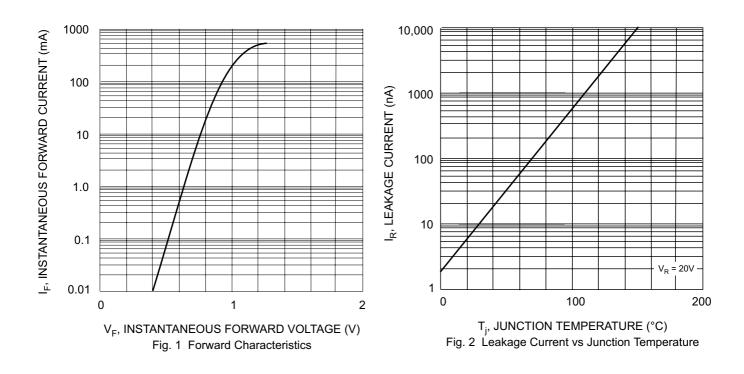
Maximum Ratings @T_A=25°C unless otherwise specified

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	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	625	K/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150	°C

$\textbf{Electrical Characteristics} \ @\textit{T}_{A} = 25^{\circ}\textit{C unless otherwise specified}$

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

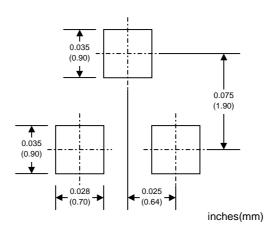
Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.



ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity		
BAV99W-T1	SOT-323	3000/Tape & Reel		
BAV99W-T3	SOT-323	10000/Tape & Reel		

RECOMMENDED FOOTPRINT



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We power your everyday.

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

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