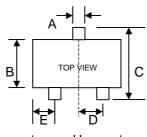
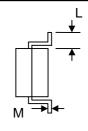


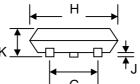
SURFACE MOUNT FAST SWITCHING DIODE

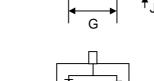
Features

- 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









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SOT-323			
Dim	Min	Max	
Α	0.30	0.40	
В	1.15	1.35	
С	2.00	2.20	
D	0.65 Nominal		
Е	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			

Mechanical Data

Case: SOT-323, Molded Plastic

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

Polarity: See Diagram

• Weight: 0.006 grams (approx.)

Mounting Position: Any

Marking: JG

Maximum Ratings @T_A=25°C unless otherwise specified

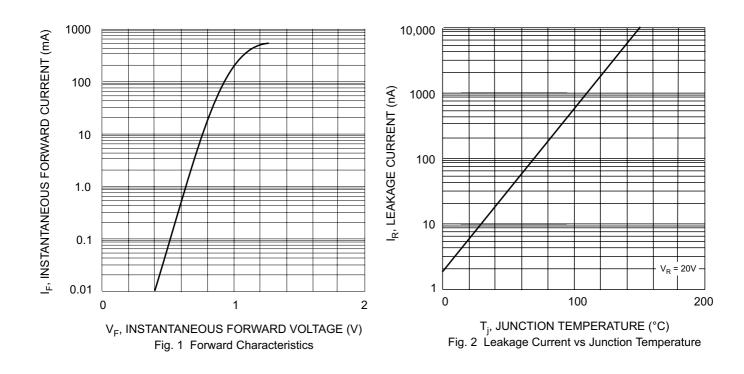
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	75	V
Forward Continuous Current (Note 1)	lF	300	mA
Average Rectified Output Current (Note 1)	lo	150	mA
Peak Forward Surge Current (Note 1) @ t < 1.0μs	I FSM	2.0	Α
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R heta JA	625	K/W
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150	°C

TOP VIEW

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	IR	_	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

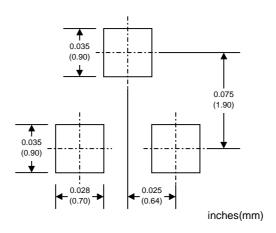
Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.



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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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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.