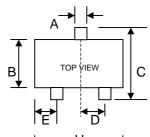
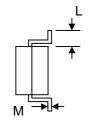


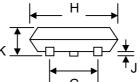
# SURFACE MOUNT FAST SWITCHING DIODE

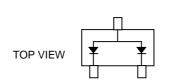
## **Features**

- 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









#### 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: JC

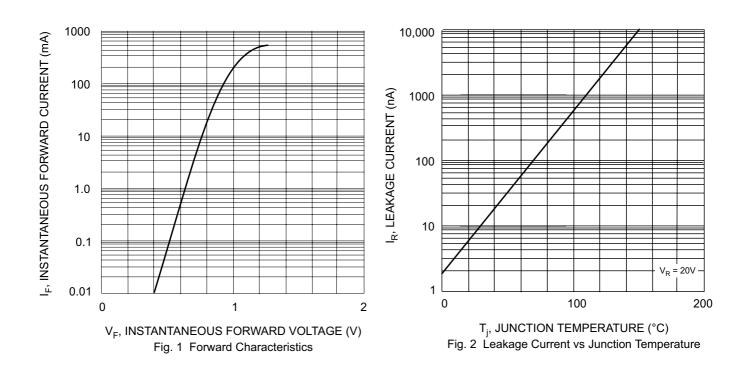
# Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

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	<b>I</b> 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, Тsтg	-65 to +150	°C

## Electrical Characteristics @T<sub>A</sub>=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 = $0.1 \text{ x IR}$ , RL = $100 \Omega$

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

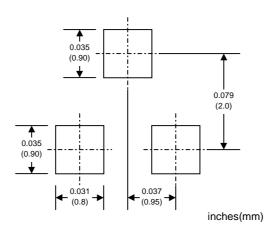


#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity	
BAW56-T1	SOT-23	3000/Tape & Reel	
BAW56-T3	SOT-23	10000/Tape & Reel	

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

#### RECOMMENDED FOOTPRINT



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

**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.

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Fax: 886-7-822-5417

Email: sales@wontop.com Internet: http://www.wontop.com We power your everyday.

<sup>\*</sup>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.