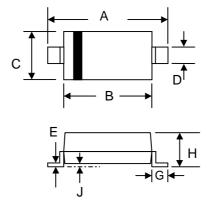


# SURFACE MOUNT FAST SWITCHING DIODE

#### **Features**

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



SOD-123			
Dim	Min	Max	
Α	3.6	3.9	
В	2.5	2.8	
С	1.4	1.8	
D	0.5	0.7	
Е	_	0.2	
G	0.4	_	
Н	0.95	1.35	
J	_	0.12	
All Dimensions in mm			

## **Mechanical Data**

Case: SOD-123, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.01 grams (approx.)

Marking: A6

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

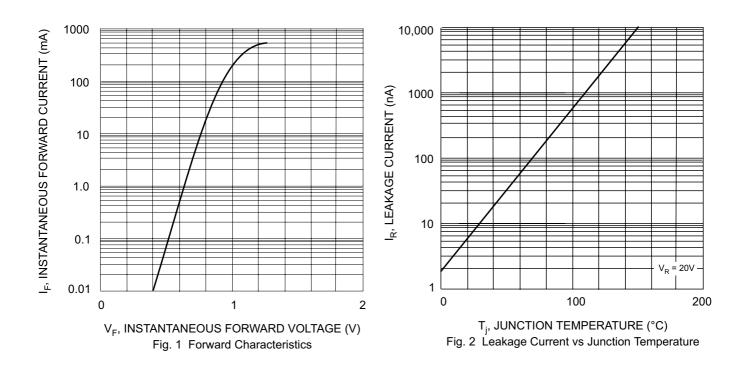
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	75	V
RMS Reverse Voltage	VR(RMS)	53	V
Forward Continuous Current (Note 1)	IFM	300	mA
Average Rectified Output Current (Note 1)	lo	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1 @ t = 1	' I IESM	2.0 1.0	А
Power Dissipation (Note 1)	Pd	350	mW
Typical Thermal Resistance, Junction to Ambient Air (No	te 1) R θ JA	357	K/W
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150	°C

# $\textbf{Electrical Characteristics} \ @T_{\mathbb{A}} = 25^{\circ}\text{C unless otherwise specified}$

Characteristic		Symbol	Value	Unit
Forward Voltage Drop	@ IF = 10mA	VFM	0.855	V
Peak Reverse Leakage Current	@ VR = 75V	lгм	1.0	μA
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	2.0	pF
Reverse Recovery Time (Note 2)		trr	6.0	nS

Note: 1. Valid provided that terminals are kept at ambient temperature.

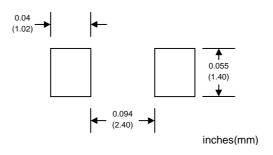
2. Measured with IF = IR = 10mA, IRR = 0.1 x IR, RL =  $100\Omega$ .



#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity
BAV16W-T1	SOD-123	3000/Tape & Reel
BAV16W-T3	SOD-123	10000/Tape & Reel

### 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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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.