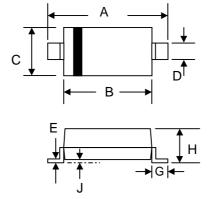


SURFACE MOUNT FAST SWITCHING DIODE

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			
E	_	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: BAV19W A8

BAV20W A80 BAV21W A82

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4

$\textbf{Maximum Ratings} \ @\textit{T}_{A} \!\!=\!\! 25^{\circ} \textit{C unless otherwise specified}$

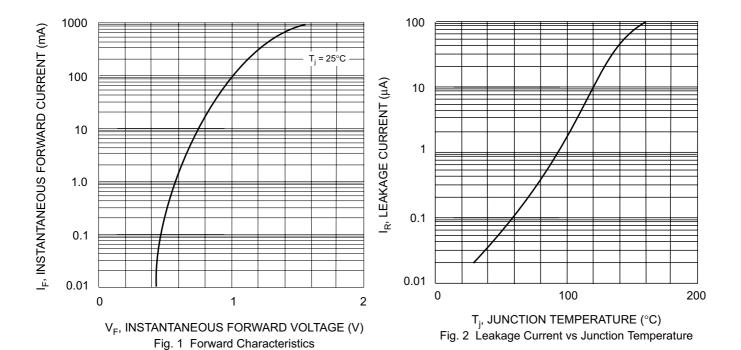
Characteristic	Symbol	BAV19W	BAV20W	BAV21W	Unit
Non-Repetitive Peak Reverse Voltage	VRM	120	200	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	150	200	V
RMS Reverse Voltage	VR(RMS)	70	105	140	V
Forward Continuous Current (Note 1)	Iғм	400		mA	
Average Rectified Output Current (Note 1)	lo	200		mA	
Non-Repetitive Peak Forward Surge Current @ t = 1.0m @ t = 1.0s	IFSM	2.5 0.5		А	
Power Dissipation	Pd	410		mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1	R _θ JA	500		K/W	
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	BAV19W	BAV20W	BAV21W	Unit
Forward Voltage Drop	@ IF = 100mA	VFM		1.0		٧
Peak Reverse Leakage Current At Rated DC Blocking Voltage		IRM	100	150	200	nA
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	5.0			pF
Reverse Recovery Time (Note 2)		trr	50			nS

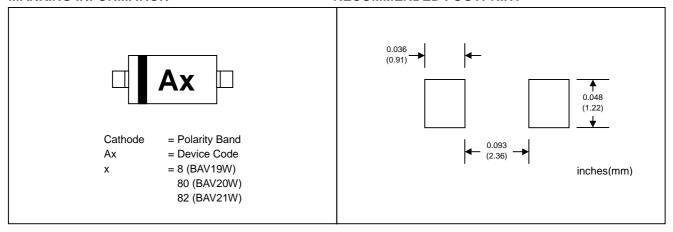
Note: 1. Valid provided that terminals are kept at ambient temperature.

2. Measured with IF = IR = 30mA, IRR = 0.1 x IR, RL = 100Ω .

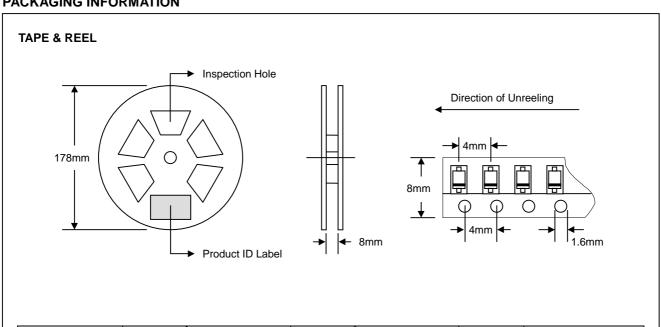


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
BAV19W-T1	SOD-123	3000/Tape & Reel		
BAV20W-T1	SOD-123	3000/Tape & Reel		
BAV21W-T1	SOD-123	3000/Tape & Reel		

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BAV19W-T1-LF.

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.

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

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