

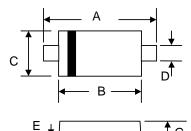




SURFACE MOUNT FAST SWITCHING DIODE

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-323			
Dim	Min	Max	
Α	2.30	2.70	
В	1.75	1.95	
С	1.15	1.35	
D	0.25	0.35	
Е	0.05	0.15	
G	G 0.70 0.95		
Н	0.30	_	
All Dimensions in mm			

Mechanical Data

Case: SOD-323, Molded Plastic

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

Polarity: Cathode Band

• Weight: 0.004 grams (approx.)

Marking: BAV19WS A8 BAV20WS A80

BAV21WS A82

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

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

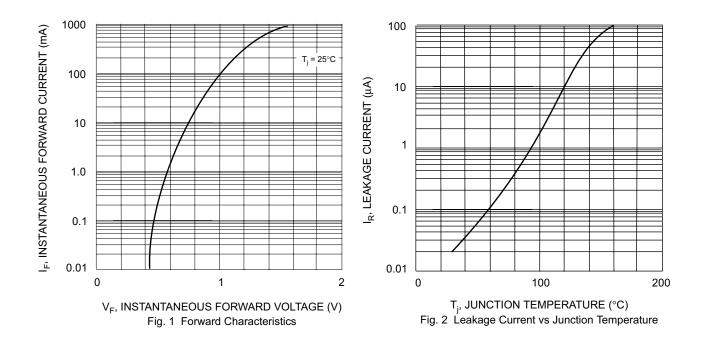
Characteristic		Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Non-Repetitive Peak Reverse Voltage		VRM	120	200	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	100	150	200	V
RMS Reverse Voltage		VR(RMS)	70	105	140	V
Forward Continuous Current (Note 1)		lF		400		mA
Average Rectified Output Current (Note 1)		lo		200		mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	 FSM		2.5 0.5		Α
Power Dissipation		Pd		200		mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)		R_{θ} JA	625		K/W	
Operating and Storage Temperature Range		Тј, Тѕтс	-65 to +150		°C	

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Forward Voltage Drop	@ IF = 100mA	VFM		1.0		V
Peak Reverse Leakage Current @ Rated	DC Blocking Voltage	I RM		100		nA
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	5.0		pF	
Reverse Recovery Time (Note 2)		trr		50		nS

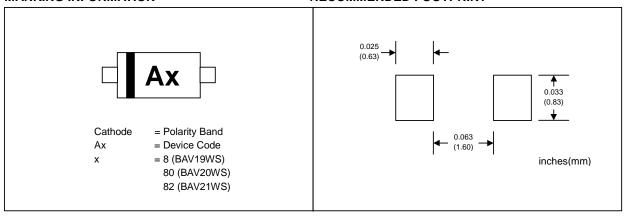
Note: 1. Valid provided that terminals are kept at ambient temperature.

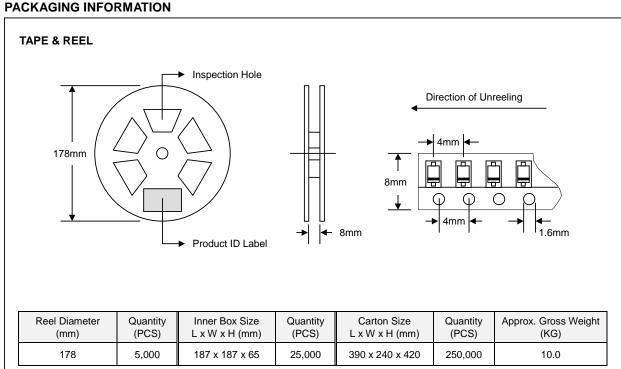
2. Measured with IF = IR = 30mA, IRR = 0.1 x IR, RL = 100Ω .



MARKING INFORMATION

RECOMMENDED FOOTPRINT





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		
BAV19WS-T1	SOD-323	5000/Tape & Reel		
BAV20WS-T1	SOD-323	5000/Tape & Reel		
BAV21WS-T1	SOD-323	5000/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, BAV19WS-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

We power your everyday.