

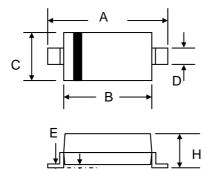
BAV19WS - BAV21WS



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	2.75	
В	1.60	1.80	
С	1.15	1.35	
D	0.25	0.40	
Е	0.09	0.18	
G	0.08	_	
Н	0.80	1.00	
J	_	0.12	
All Dimensions in mm			

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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: Device Code, See Page 3

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

Maximum Ratings @TA=25°C unless otherwise specified

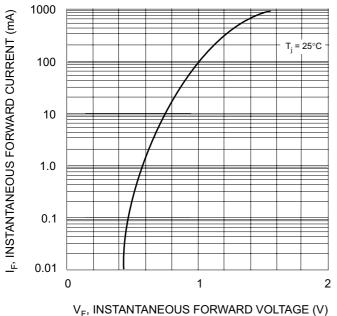
Characteristic	Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Non-Repetitive Peak Reverse Voltage	VRM	120	200	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	150	200	V
RMS Reverse Voltage	VR(RMS)	70	105	140	V
Forward Continuous Current (Note 1)	lF		400		mA
Average Rectified Output Current (Note 1)	lo		200		mA
Non-Repetitive Peak Forward Surge Current @ t = 1 @ t = 1			2.5 0.5		Α
Power Dissipation	Pd		200		mW
Typical Thermal Resistance, Junction to Ambient Air (Not	e 1) R <i>θ</i> JA	625		K/W	
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150			°C

Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Forward Voltage Drop	@ IF = 100mA	VFM		1.0		٧
Peak Reverse Leakage Current @ Rated DC Blocking Voltage		lгм	100		nA	
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	5.0		pF	
Reverse Recovery Time (Note 2)		trr		50		nS

100

- Note: 1. Valid provided that terminals are kept at ambient temperature.
 - 2. Measured with IF = IR = 30mA, IRR = 0.1 x IR, RL = 100 Ω .



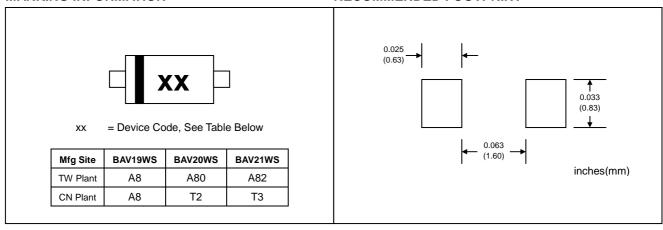
0.01 0 100 200

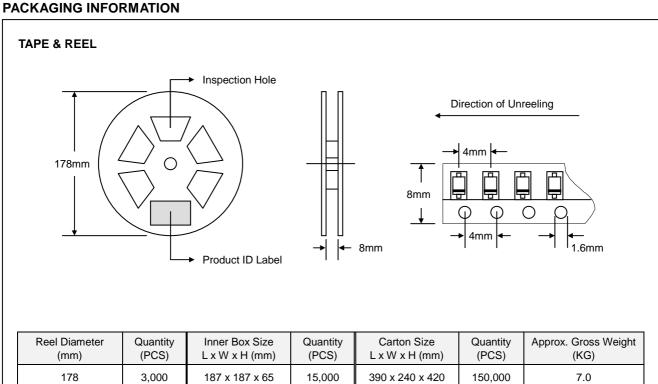
V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 1 Forward Characteristics

 $\label{eq:total_total_total} \textbf{T}_{j}, \, \text{JUNCTION TEMPERATURE (°C)} \\ \text{Fig. 2 Leakage Current vs Junction Temperature} \\$

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	3000/Tape & Reel
BAV20WS-T1	SOD-323	3000/Tape & Reel
BAV21WS-T1	SOD-323	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, BAV19WS-T1-LF.

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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.

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