

BAV19WS – BAV21WS

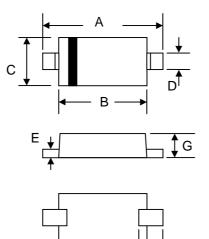
SURFACE MOUNT FAST SWITCHING DIODE

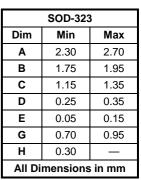
Features

- 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

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





Maximum Ratings @T_A=25°C unless otherwise specified

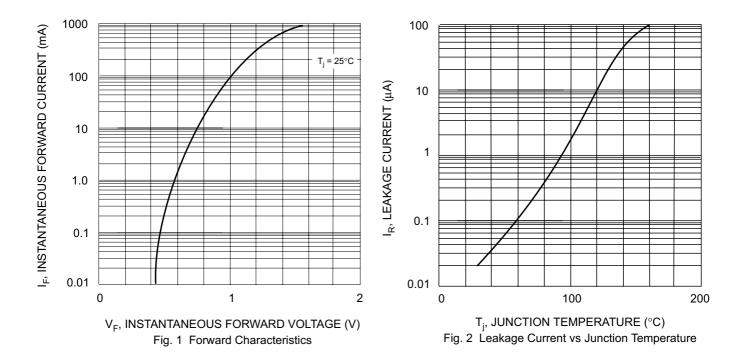
Characteristic		Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Non-Repetitive Peak Reverse Voltage		Vrm	120	200	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	100	150	200	V
RMS Reverse Voltage		VR(RMS)	70	105	140	V
Forward Continuous Current (Note 1)		lF		400		mA
Average Rectified Output Current (Note 1)		ю		200		mA
Non-Repetitive Peak Forward Surge Current@ t = 1@ t = 1	-	FSM		2.5 0.5		А
Power Dissipation		Pd		200		mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)		$R \theta JA$	625		K/W	
Operating and Storage Temperature Range		Tj, Ts⊤g	-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		IRM	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 = 100 Ω .



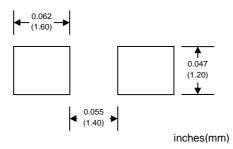
ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
BAV19WS-T1	SOD-323	5000/Tape & Reel		
BAV19WS-T3	SOD-323	10000/Tape & Reel		
BAV20WS-T1	SOD-323	5000/Tape & Reel		
BAV20WS-T3	SOD-323	10000/Tape & Reel		
BAV21WS-T1	SOD-323	5000/Tape & Reel		
BAV21WS-T3	SOD-323	10000/Tape & Reel		

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.

RECOMMENDED FOOTPRINT



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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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