

BAV19WS - BAV21WS

SURFACE MOUNT FAST SWITCHING DIODE



Features

- Silicon Epitaxial Planar Die Construction
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0

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 @T_A=25°C unless otherwise specified

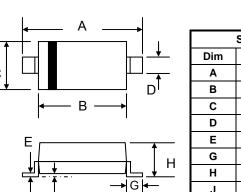
Characteristic		Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Peak Repetitive Reverse Voltage		VRRM	120	200	250	V
Working Peak Reverse Voltage DC Blocking Voltage		Vrwm Vr	100	150	200	V
Forward Continuous Current		lf		200		mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	IFSM		2.5 0.5		А
Operating and Storage Temperature Range		TJ, TSTG		-55 to +150		°C

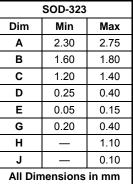
C

Thermal Characteristics

Characteristic	Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Power Dissipation (Note 1)	PD	200			mW
Thermal Resistance, Junction to Ambient (Note 1)	R ja	625		°C/W	

Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

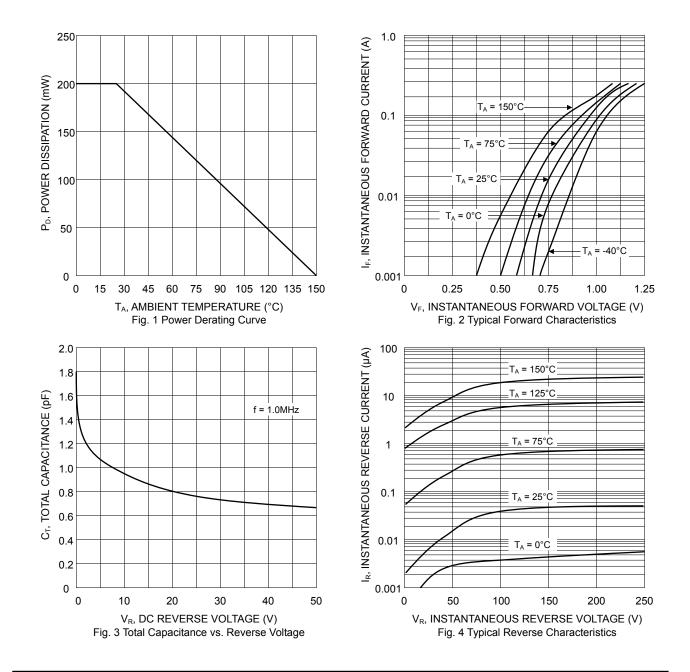






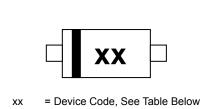
Electrical Characteristics @T_A=25°C unless otherwise specified

Characte	ristic	Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Reverse Breakdown Voltage	@ IR = 100µA	V(BR)	120	200	250	V
Forward Voltage Drop	@ IF = 100mA @ IF = 200mA	Vгм		1.0 1.25		V
Peak Reverse Leakage Current	@ Rated VR, TJ = 25°C @ Rated VR, TJ = 150°C	Iгм		100 100		nA μA
Diode Capacitance (VR = 0V, f = 1.0MHz)		C _D		5.0		pF
Reverse Recovery Time (IF = IR = 30mA, IRR = 0.1 x IR, RL = 100 Ω)		trr		50		nS



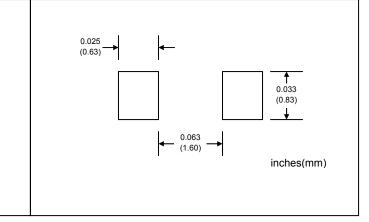


MARKING INFORMATION

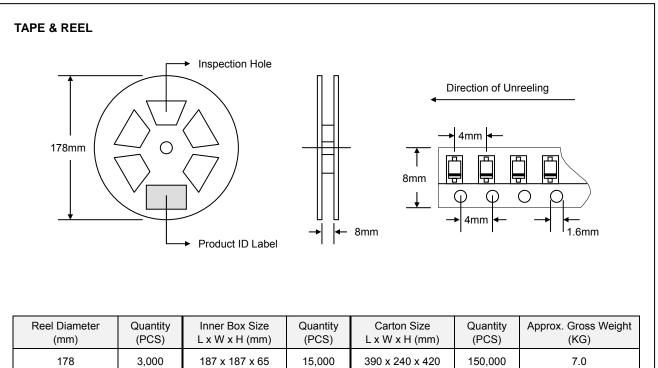


Mfg Site	BAV19WS	BAV20WS	BAV21WS
TW Plant	A8	A80	A82
CN Plant	A8	T2	Т3

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



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.



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

ORDERING INFORMATION

1. 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"

2. suffix to part number above. For example, BAV19WS-T1-LF.

WON-TOP ELECTRONICS and *we are registered trademarks of Won-Top Electronics Co., Ltd (WTE). 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 806, 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

