



SURFACE MOUNT SWITCHING DIODES

POWER

FEATURES

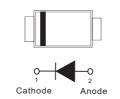
· Fast switching speed.

VOLTAGE 120-250 Volt

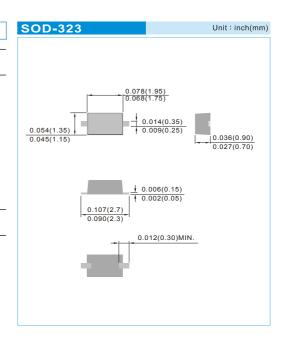
- · Surface mount package ideally suited for automatic insertion
- Electrically identical to Standard JEDEC
- · High conductance
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.00014 ounces, 0.0041 grams



200mWatt



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAV19WS BAV20WS BAV21V		BAV21WS	UNITS
Marking Code		A8	A80	A82	
Reverse Voltage	VR	100	150	200	٧
Peak Reverse Voltage	VRM	120	200	250	٧
Rectified Current (Average), Half Wave Rectification with Resistive Load and f ≥50 Hz	Ιο		mA		
Peak Forward Surge Current, 0.001ms	I FSM			Α	
Repetitive Peak Forward Current at f ≥ 50 Hz, Θ=180 °, Tamb=25 °C	I FRM			mA	
Power Dissipation Derate Above 25°C	Ртот	200			mW
Maximum Forward Voltage at 0.1A	VF	1			٧
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	I R	0.1			μA
Typical Junction Capacitance (Note 1)	Cl	5			pF
Maximum Reverse Recovery Time (Note 2)	Trr	50			ns
Maximum Thermal Resistance (Note 3) (Note 4)	R0JA R0JC	640 260			°C / W
Operating Junction and Storage Temperature Range	ТЈ, Тѕтс	-55 to +150			°C

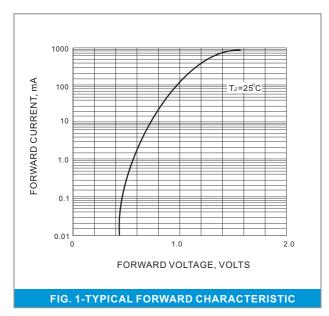
NOTE:

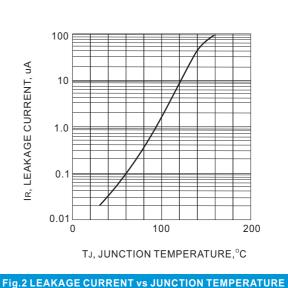
- 1.CJ at VR=0, f=1MHZ
- 2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100 Ω
- 3. Mounted with minmum recommended pas eize, PC Board FR4
- 4. Mounted on a FR4 PCB, single-sided copper, with 100cm 2 copper pad area

January 22,2019-REV.03 PAGE . 1

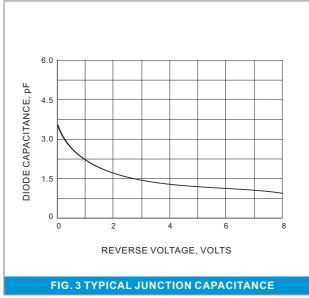


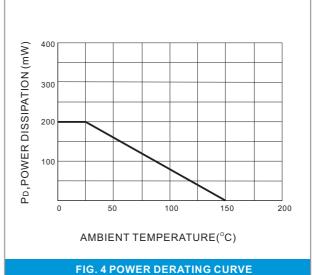












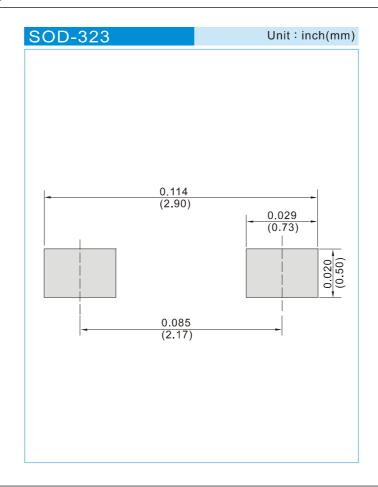
. 3 TYPICAL JUNCTION CAPACITANCE FIG. 4 POWER DERATING CURV

January 22,2019-REV.03 PAGE . 2





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel





Part No_packing code_Version

BAV19WS_R1_00001 BAV19WS_R2_00001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			_	
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				

January 22,2019-REV.03 PAGE . 4





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

January 22,2019-REV.03 PAGE . 5

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

BAV20WS_R1_00001 BAV20WS_R1_10001 BAV20WS_R2_00001 BAV20WS_R2_10001