



SURFACE MOUNT SWITCHING DIODES

POWER

FEATURES

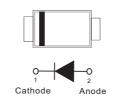
· Fast switching speed.

VOLTAGE 120-250 Volt

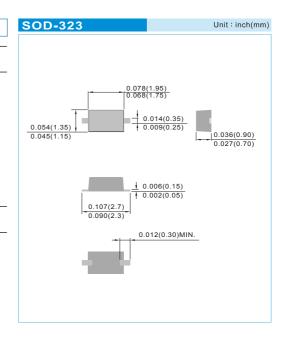
- · Surface mount package ideally suited for automatic insertion
- · Electrically identical to Standard JEDEC
- · High conductance
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

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	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 <u>></u> 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			mW	
Maximum Forward Voltage at 0.1A	VF	1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	l 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)	Røja Røjc	640 260			°C / W
Operating Junction and Storage Temperature Range	TJ, TstG	-55 to +150			°C

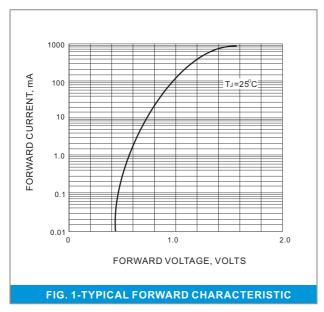
NOTE:

- 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

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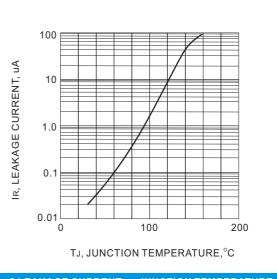
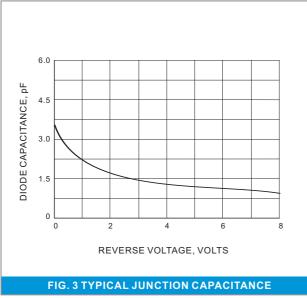
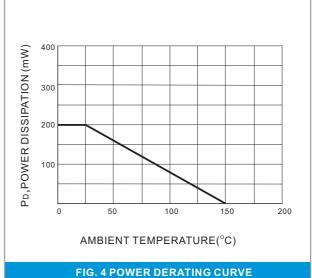


Fig.2 LEAKAGE CURRENT vs JUNCTION TEMPERATURE



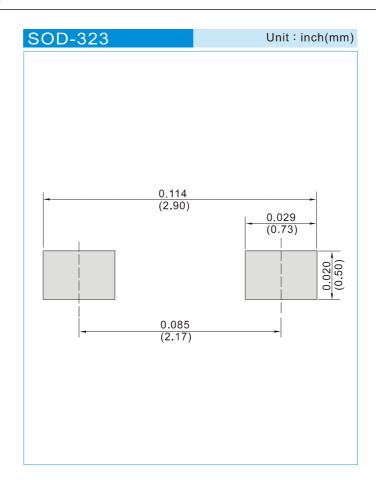


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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel

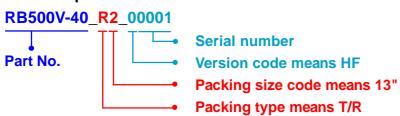




Part No_packing code_Version

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				

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