

SURFACE MOUNT SWITCHING DIODES

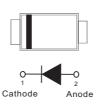
VOLTAGE 120-250 Volt POWER 200mWatt

FEATURES

- · Fast switching speed.
- · 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



SOD-323 Unit : inch(mm) 0.054(1.35) 0.054(1.35) 0.054(1.15) 0.054(1.15) 0.006(0.15) 0.0027(0.70)0.027(0.70)

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 BAV21W		BAV21WS	UNITS
Marking Code		A8	A80	A82	
Reverse Voltage	Vr	100	150	200	V
Peak Reverse Voltage	Vrm	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f \geq 50 Hz	Ιo	200			mA
Peak Forward Surge Current, 0.001ms	I FSM	4			А
Repetitive Peak Forward Current at f \geq 50 Hz, Θ =180 °, Tamb=25 °C	I FRM	625			mA
Power Dissipation Derate Above 25°C	Ρτοτ	200			mW
Maximum Forward Voltage at 0.1A	VF	1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$	l r	l R 0.1			μA
Typical Junction Capacitance (Note 1)	CJ	5			рF
Maximum Reverse Recovery Time (Note 2)		50			ns
Maximum Thermal Resistance (Note 3) (Note 4)	R0JA R0JC	640 260			°C / W
Operating Junction and Storage Temperature Range		-55 to +150			°C

NOTE :

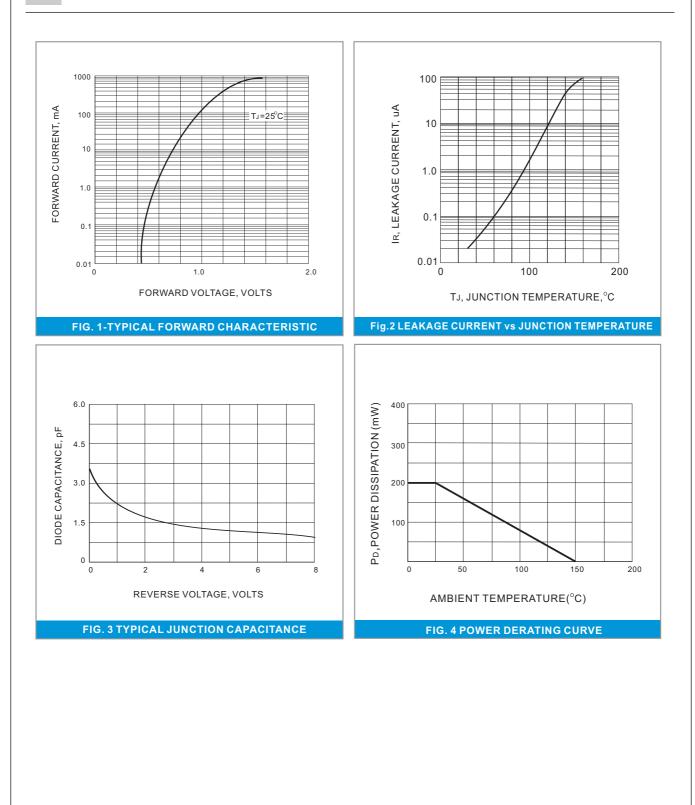
1.CJ at VR=0, f=1MHZ

2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω

3. Mounted with minmum recommended pas eize, PC Board FR4

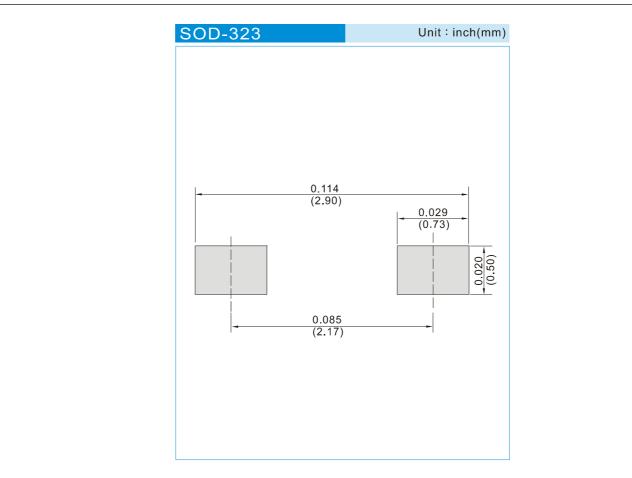
4.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area







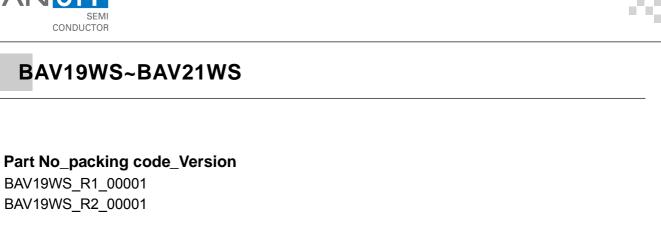
MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 12K per 13" plastic Reel
 - T/R 5K per 7" plastic Reel





For example :

RB500V-40_R2_00001 Part No.

Serial number -----

Т

Version code means HF

- Packing size code means 13"
- Packing type means T/R

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)	A	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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