



SURFACE MOUNT SWITCHING DIODES

VOLTAGE 120-250 Volts

POWER

200mWatts

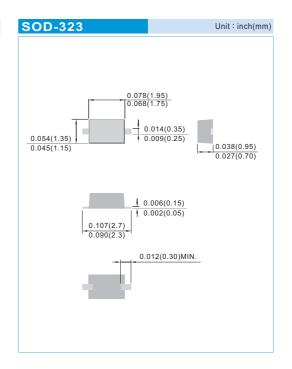
FEATURES

- · Fast switching speed.
- · Surface mount package Ideally Suited for Automatic insertion
- · Electrically Identical to Standard JEDEC
- · High Conductance
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOD-323, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026 Approx. Weight: 0.00014 ounces, 0.0041 grams



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	V
Peak Reverse Voltage	VRM	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f ≥50 Hz	Ιo	200			mA
Peak Forward Surge Current, 0.001ms	I FSM	4			Α
Power Dissipation Derate Above 25°C	Ртот	200			mW
Maximum Forward Voltage at 0.1A	VF	1.0			٧
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	l R	0.1			μΑ
Typical Junction Capacitance (Notes1)	Cl	5.0			pF
Maximum Reverse Recovery (Notes2)	Trr	50			ns
Maximum Thermal Resistance	RθJA	640			°C / W
Operating Junction and Storage Temperature Range	ТJ,Tsтg	-55 to +150			°C

NOTE:

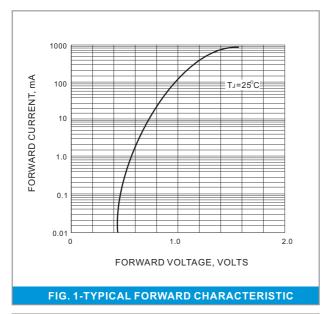
1. CJ at V_R=0, f=1MHZ

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

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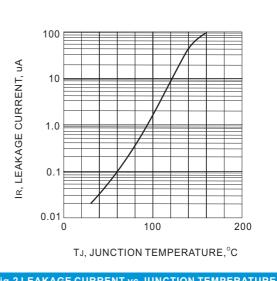
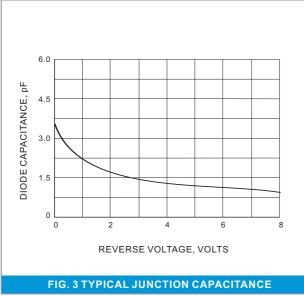
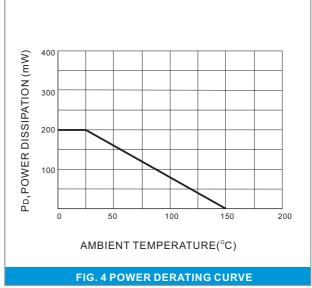


Fig.2 LEAKAGE CURRENT vs JUNCTION TEMPERATURE



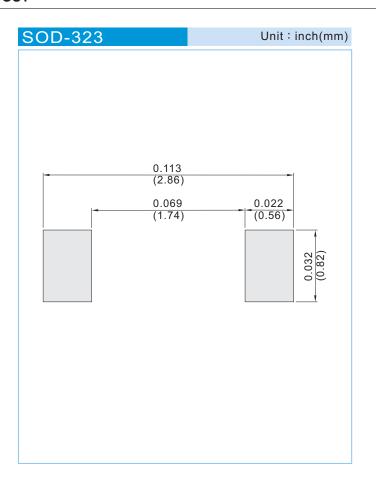


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MOUNTING PAD LAYOUT



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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