

### SURFACE MOUNT SWITCHING DIODES

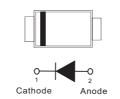
VOLTAGE 120-250 Volt POWER 200mWatt

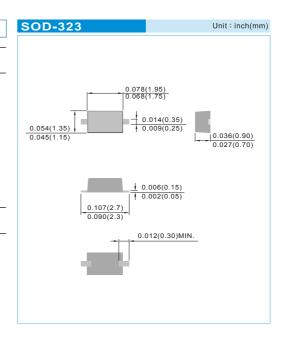
### **FEATURES**

- · 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





### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

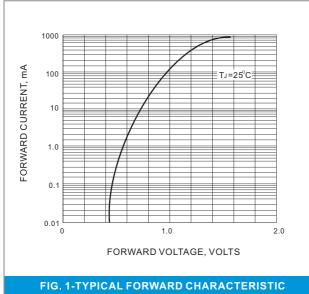
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

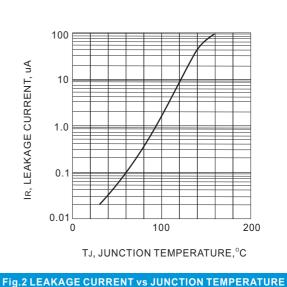
PARAMETER	SYMBOL	BAV19WS	BAV20WS	BAV21WS	UNITS
Marking Code		A8	A80	A82	
Reverse Voltage	VR	100	150	200	V
Peak Reverse Voltage	VRM	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f ≥50 Hz	Ιο	200			mA
Peak Forward Surge Current, 0.001ms	I FSM	4			Α
Repetitive Peak Forward Current at f ≥ 50 Hz, Θ=180 °, Tamb=25 °C	I FRM	625			mA
Power Dissipation Derate Above 25°C	Ртот	200			mW
Maximum Forward Voltage at 0.1A	VF	1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage TJ=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)	R0JA R0JC	640 260			°C / W
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150			°C

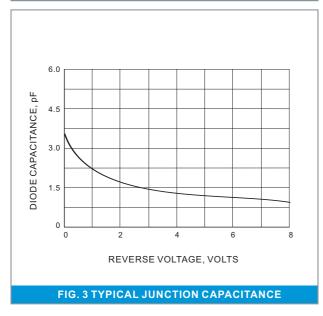
#### NOTE:

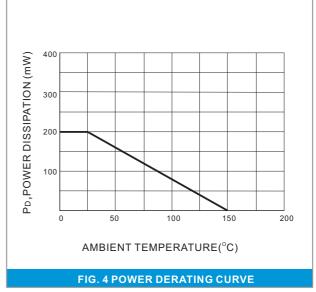
- 1.CJ at VR=0, f=1MHZ
- 2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\Omega$
- 3. Mounted with min mum recommended pas eize, PC Board FR4  $\,$
- 4.Mounted on a FR4 PCB, single-sided copper, with 100cm <sup>2</sup> copper pad area





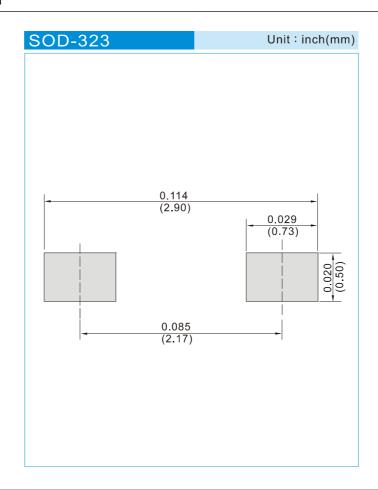








### MOUNTING PAD LAYOUT



### **ORDER INFORMATION**

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel



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