### **FEATURES**

- For surface mounted applications
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

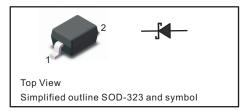
#### **MECHANICAL DATA**

■Case: SOD-323

■Terminals: Solderable per MIL-STD-750, Method 2026

#### **PINNING**

PIN	DESCRIPTION	
1	Cathode	
2	Anode	

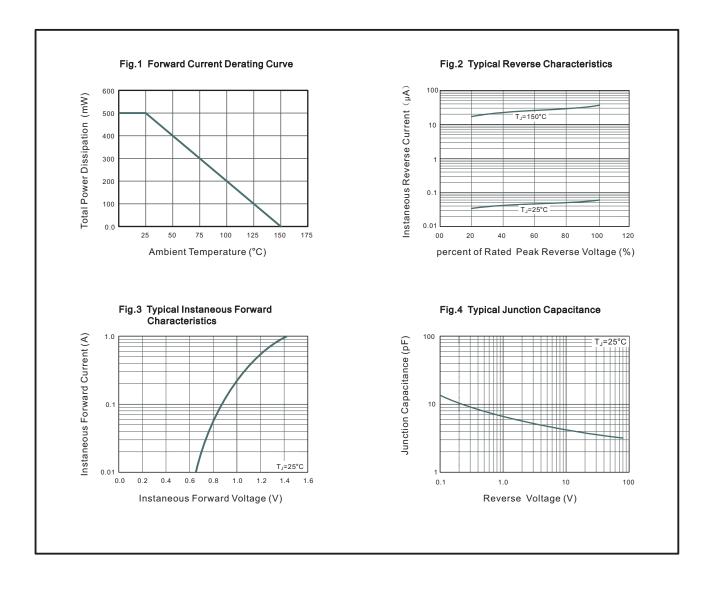


#### Absolute Maximum Ratings at 25 °C

Parameter	Symbols	BAV19WS	BAV20WS	BAV21WS	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	120	200	250	V
Maximum RMS voltage	$V_{RMS}$	100	150	200	V
Continuous Forward Current	I <sub>F</sub>	250			mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	625		mA	
Non-reptitive Peak Forward Surge Current at 1ms at 1 us	I <sub>FSM</sub>		1 3 9		А
Total Power Dissipation	P <sub>tot</sub>	500		mW	
Operating and Storage Temperature Range	$T_{j},T_{stg}$	-55 ~ <b>+</b> 150			°C

### Characteristics at T<sub>a</sub> = 25 °C

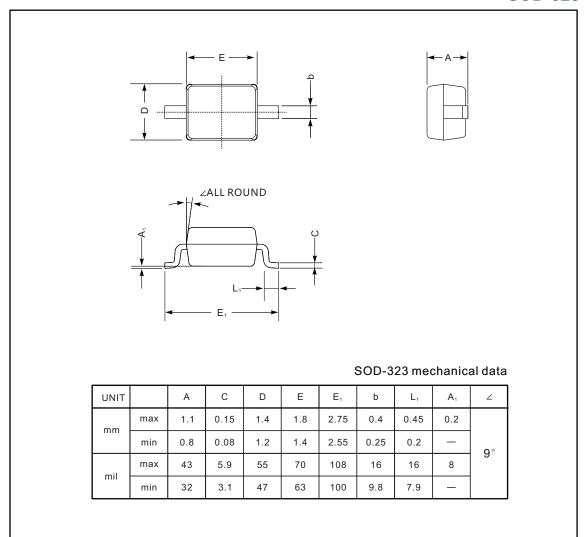
Parameter	Symbols	BAV19WS	BAV20WS	BAV21WS	Units
Reverse BreakdownVoltage at I <sub>R</sub> =100μA	$V_{(BR)R}$	120	200	250	V
Maximum Forward Voltage at 100 m A at 200 m A	V <sub>F</sub>	1.00 1.25			V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 150 ^{\circ}\text{C}$	I <sub>R</sub>	0.1 100			μΑ
Typical Junction Capacitance at V <sub>R</sub> =4V, f=1MHz	C <sub>j</sub>	5			pF
Maximum Reverse Recovery Time	t <sub>rr</sub>	50			ns



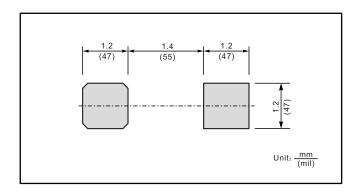
# PACKAGE OUTLINE

# Plastic surface mounted package; 2 leads

SOD-323



### The recommended mounting pad size



### Marking

Type number	Marking code		
BAV19WS	A8		
BAV20WS	T2		
BAV21WS	Т3		

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