



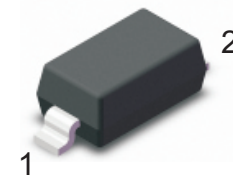
SOD-123



- 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-123

**Absolute Maximum Ratings at 25 °C**

1.Cathode 2. Anode

Parameter	Symbols	BAV19W	BAV20W	BAV21W	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	120	200	250	V
Maximum RMS voltage	$V_{RMS}$	100	150	200	V
Continuous Forward Current	$I_F$		250		mA
Repetitive Peak Forward Current	$I_{FRM}$		625		mA
Non-repetitive Peak Forward Surge Current at 1s at 1ms at 1us	$I_{FSM}$		1 3 9		A
Total Power Dissipation	$P_{tot}$		500		mW
Operating and Storage Temperature Range	$T_j, T_{stg}$		-55 ~ +150		°C

**Characteristics at  $T_a = 25\text{ °C}$** 

Parameter	Symbols	BAV19W	BAV20W	BAV21W	Units
Reverse Breakdown Voltage at $I_R=100\mu A$	$V_{(BR)R}$	120	200	250	V
Maximum Forward Voltage at 100 m A at 200 m A	$V_F$		1.00 1.25		V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25\text{ °C}$ $T_a = 150\text{ °C}$	$I_R$		0.1 100		$\mu A$
Typical Junction Capacitance at $V_R=4V, f=1MHz$	$C_j$		5		pF
Maximum Reverse Recovery Time	$t_{rr}$		50		ns

Fig.1 Forward Current Derating Curve

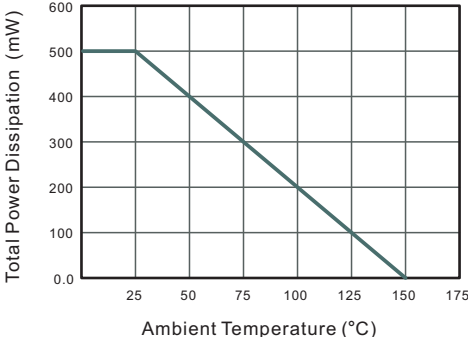


Fig.2 Typical Reverse Characteristics

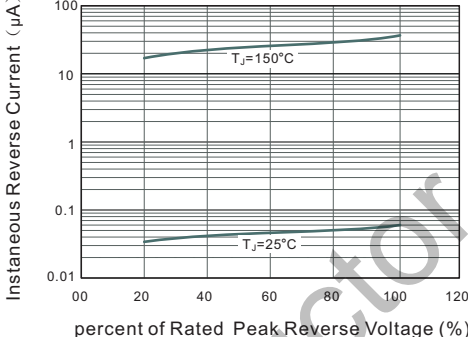


Fig.3 Typical Instantaneous Forward Characteristics

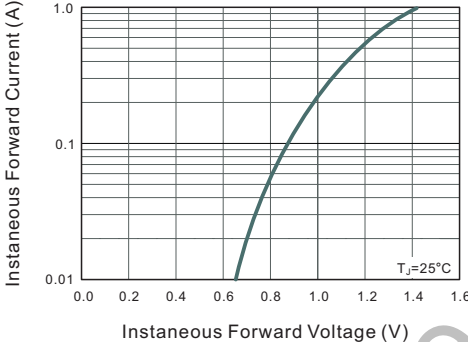
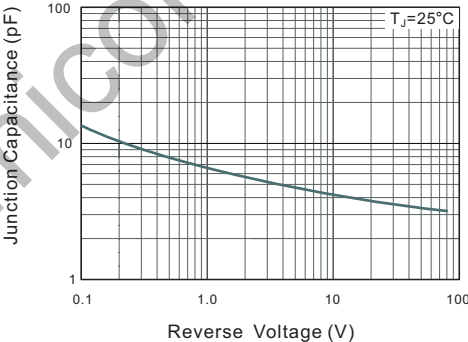


Fig.4 Typical Junction Capacitance

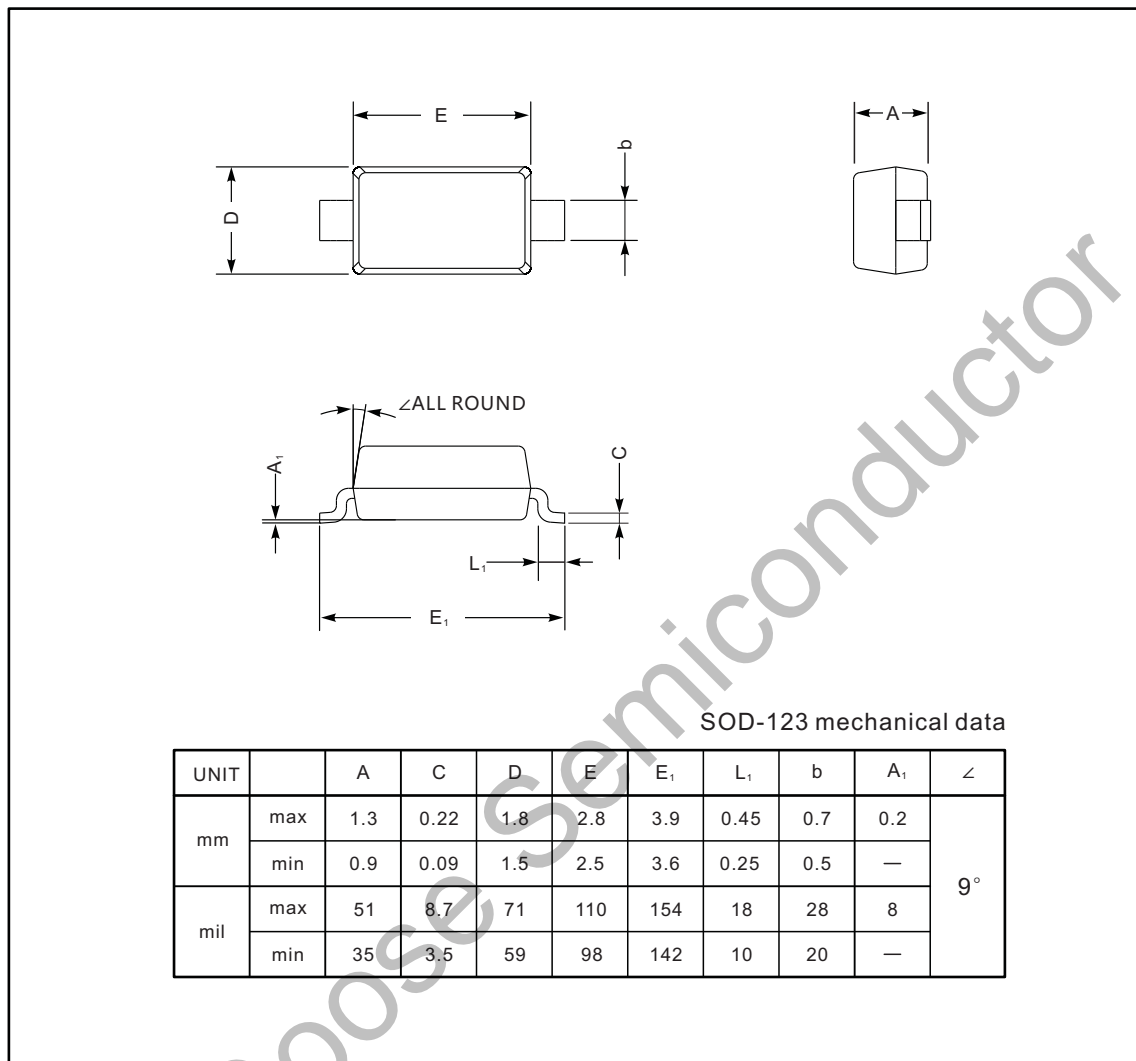


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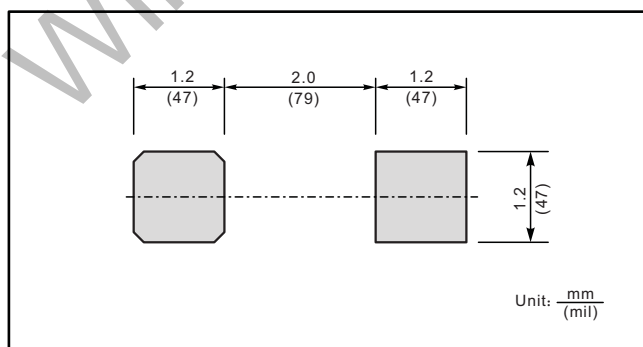
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-123



**The recommended mounting pad size**



**Marking**

Type number	Marking code
BAV19W	A8
BAV20W	T2
BAV21W	T3

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