

FEATURES

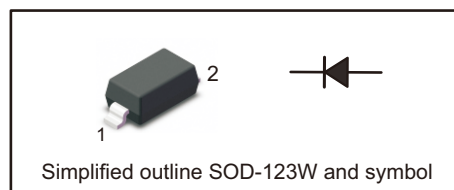
- For surface mounted applications
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: SOD-123W
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 16mg/0.00056oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings at 25 °C

Parameter	Symbols	BAV19WA	BAV20WA	BAV21WA	Units
Non-Repetitive Peak Reverse Voltage	V_{RM}	120	200	250	V
RMS Reverse Voltage	V_{RMS}	71	106	141	V
Repetitive Peak Reverse Voltage	V_{RRM}	100	150	200	V
Average Rectified Output Current	I_O	200			mA
Repetitive Peak Forward Current	I_{FRM}	625			mA
Non-repetitive Peak Forward Surge Current @t < 8. 3mS	I_{FSM}	2			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	BAV19WA	BAV20WA	BAV21WA	Units
Reverse Breakdown Voltage at $I_R=100\text{ }\mu\text{A}$	$V_{(BR)R}$	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 $T_a = 25\text{ °C}$ at Rated DC Blocking Voltage	I_R	0.1			μA
Typical Junction Capacitance at $V_R=0\text{V}$, $f=1\text{MHz}$	C_j	5			pF
Maximum Reverse Recovery Time ⁽¹⁾	t_{rr}	50			ns

(1) Measured with $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{rr} = 0.25\text{ A}$



Typical Performance Characteristics

Fig.1 Power Derating Curve

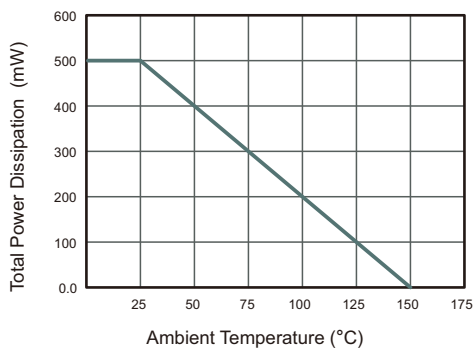


Fig.2 Typical Reverse Characteristics

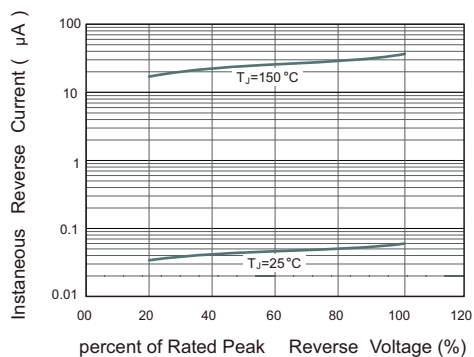


Fig.3 Typical Instantaneous Forward Characteristics

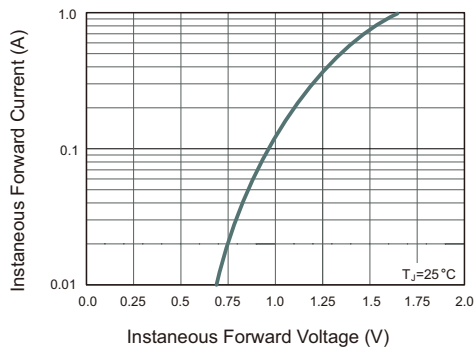
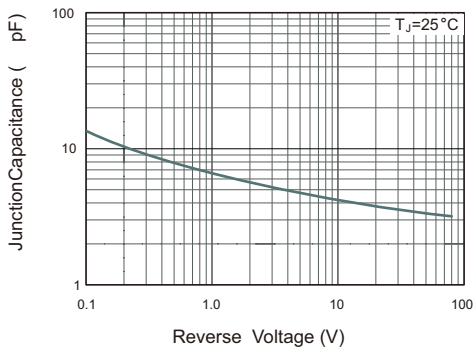


Fig.4 Typical Junction Capacitance

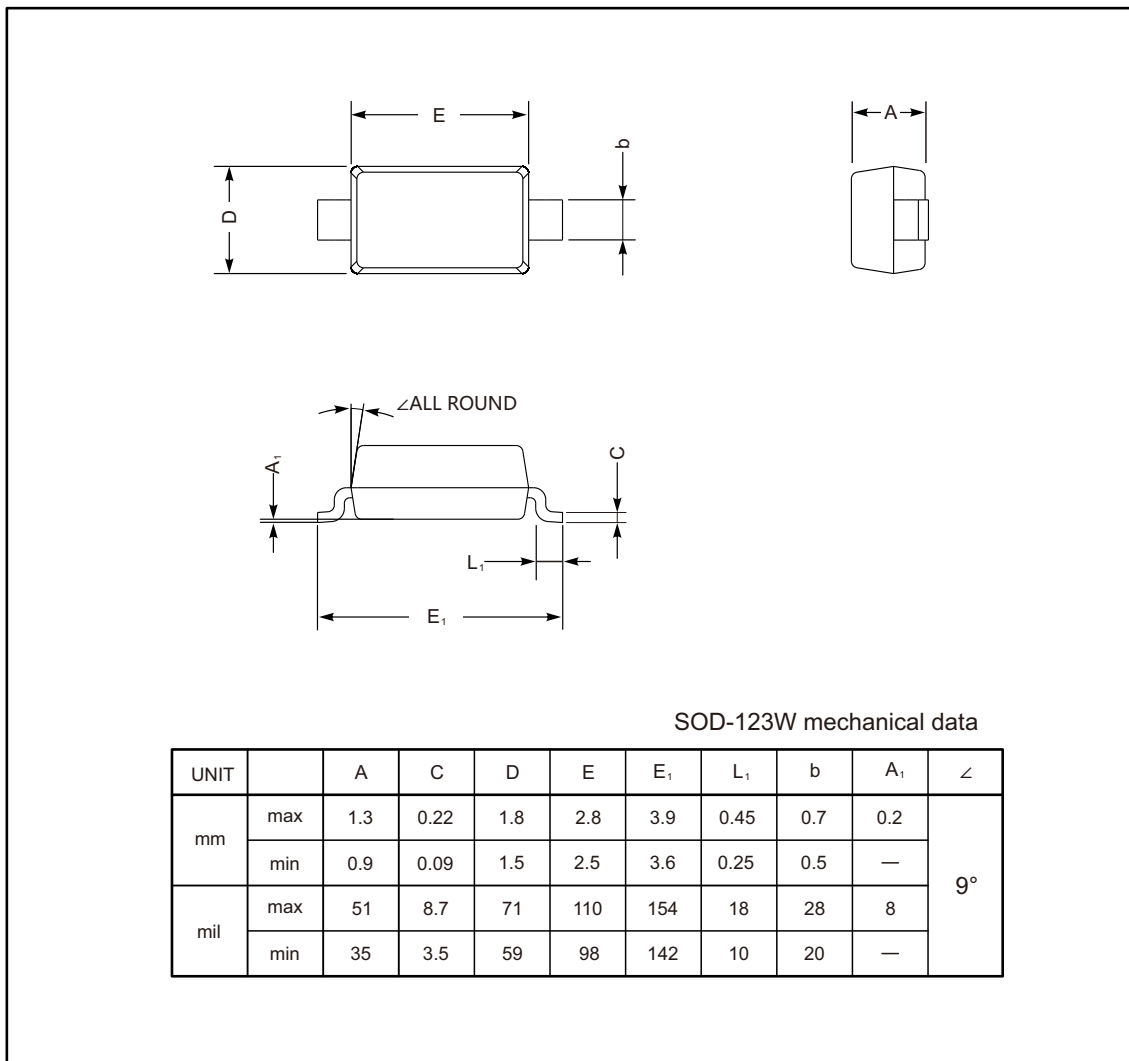




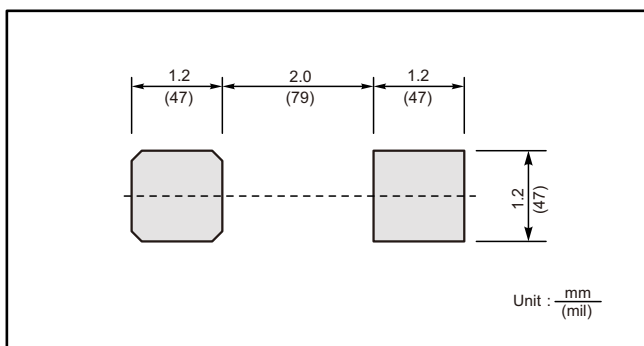
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123W



The recommended mounting pad size



Marking

Type number	Marking code
BAV19WA	A8
BAV20WA	T2
BAV21WA	T3



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