## SURFACE MOUNT LOW LEAKAGE DIODE

#### **FEATURES**

- Surface Mount Package Ideally Suited for Automatic Insertion
- Low Leakage Current
- Fast Switching Speed
- High Reverse Breakdown Voltage

#### **MECHANICAL DATA**

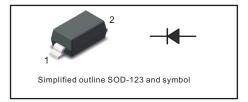
•Case: SOD-123

■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

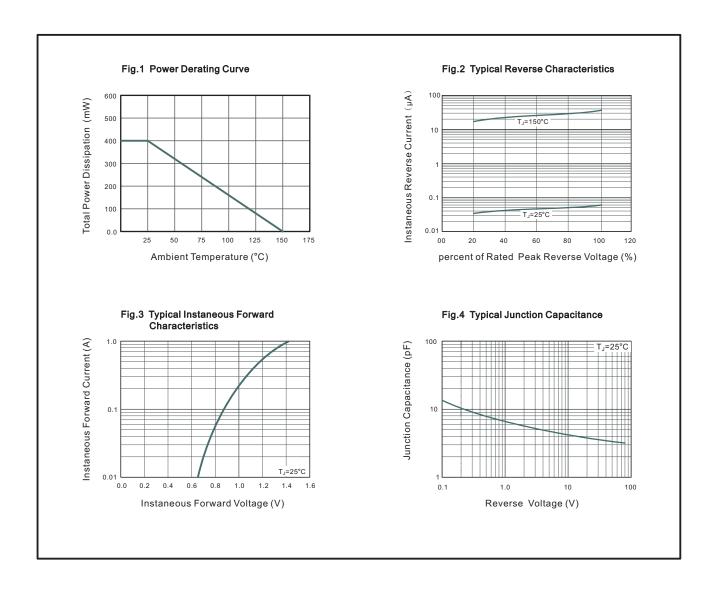
Parameter	Symbols	BAV3004W	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	350	V
Working Peak Reverse Voltage DC Blocking Voltage	$V_{RWM}$ $V_{R}$	300	V
RMS Reverse Voltage	$V_{R(RMS)}$	212	V
Forward Continuous Current	I <sub>FM</sub>	225	mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	625	mA
Non-reptitive Peak Forward Surge Current at 1s at 1 us	I <sub>FSM</sub>	1 4	А
Total Power Dissipation	P <sub>tot</sub>	400	mW
Typical Thermal Resistance (1)	$R_{\theta JA}$	500	°C/W
Operating and Storage Temperature Range	$T_{j},T_{stg}$	-55 ~ +150	°C

<sup>( 1 )</sup> P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

#### Characteristics at Ta = 25 °C

Parameter	Symbols	BAV3004W	Units
Reverse BreakdownVoltage at I <sub>R</sub> =100µA	$V_{(BR)R}$	350	V
at 20 m A Maximum Forward Voltage at 100 m A at 200 m A	V <sub>F</sub>	0.87 1.00 1.25	V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 100 ^{\circ}\text{C}$	I <sub>R</sub>	0.1 15	μΑ
Typical Junction Capacitance at V <sub>R</sub> =0V, f=1MHz	C <sub>j</sub>	5	pF
Maximum Reverse Recovery Time (1)	t <sub>rr</sub>	50	ns

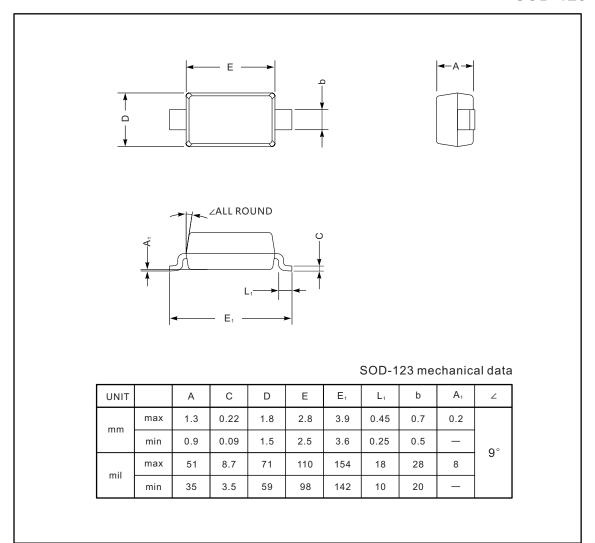
<sup>(1)</sup> Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A



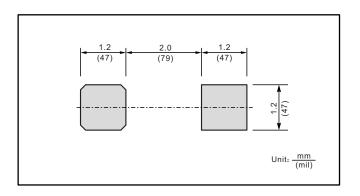
## PACKAGE OUTLINE

## Plastic surface mounted package; 2 leads

**SOD-123** 



## The recommended mounting pad size



## Marking

Type number	Marking code
BAV3004W	4P

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