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

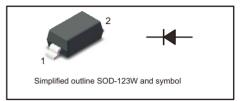
-Case: SOD-123W

■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	BAV3004WA	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 _{FM}	225	mA
Repetitive Peak Forward Current	I _{FRM}	625	mA
Non-reptitive Peak Forward Surge Current at 1s at 1 us	I _{FSM}	1 4	А
Total Power Dissipation	P _{tot}	400	mW
Typical Thermal Resistance ⁽¹⁾	$R_{\theta JA}$	500	°C/W
Operating and Storage Temperature Range	Tj, T _{stg}	-55 ~ + 150	°C

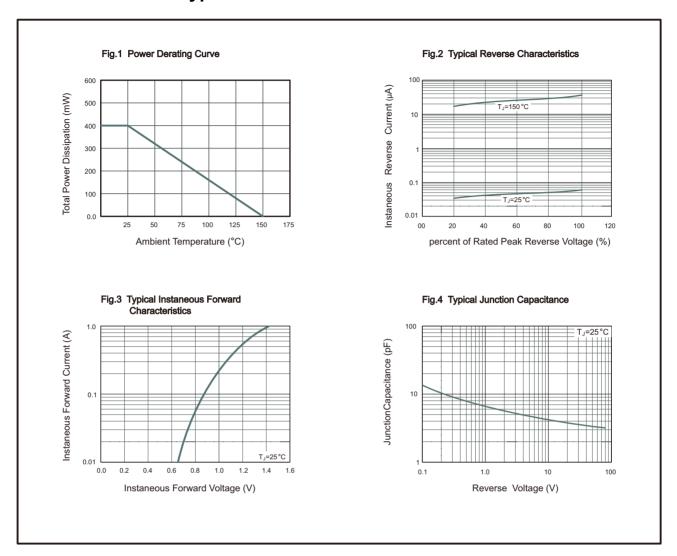
⁽¹⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Characteristics at Ta = 25 °C

Parameter	Symbols	BAV3004WA	Units
Reverse BreakdownVoltage at IR=100μA	$V_{(BR)R}$	350	٧
at 20 m A Maximum Forward Voltage at 100 m A at 200 m A	V _F	0.87 1.00 1.25	V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =100 °C	I _R	0.1 15	μΑ
Typical Junction Capacitance at VR=0V, f=1MHz	C _j	5	pF
Maximum Reverse Recovery Time (1)	t _{rr}	50	ns

⁽¹⁾ Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A

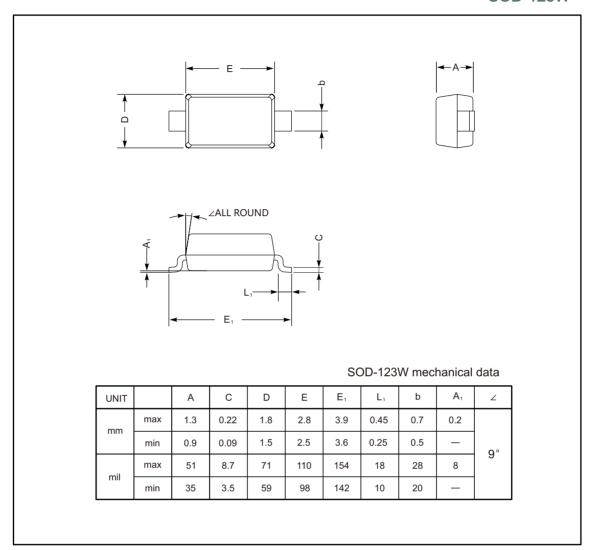
Typical Performance Characteristics



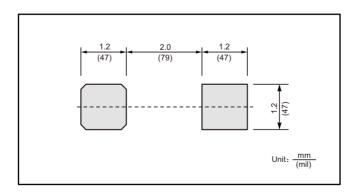
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123W



The recommended mounting pad size



Marking

Type number	Marking code
BAV3004WA	4P

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