

BAV19W / BAV20W / BAV21W

FEATURES

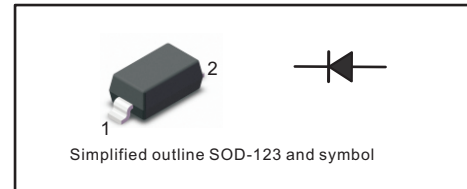
- For surface mounted applications
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: SOD-123
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 16mg/0. 00056oz

PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1 | Cathode |
| 2 | Anode |



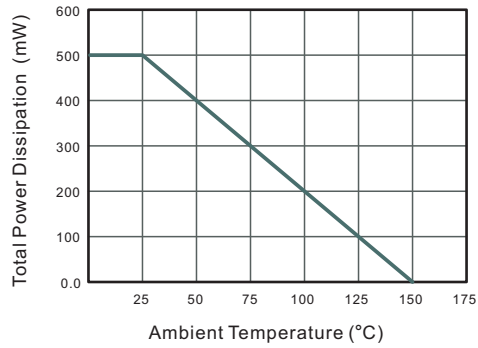
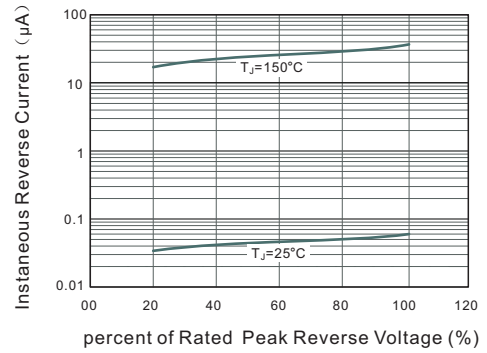
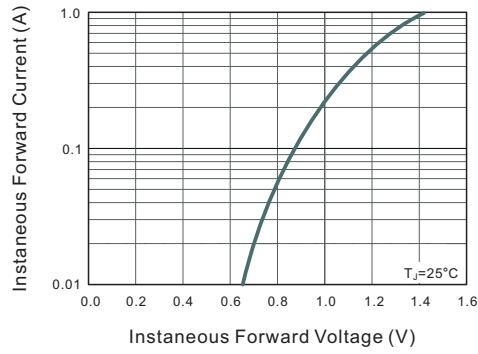
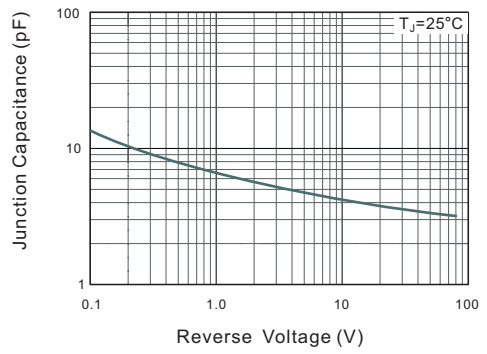
Absolute Maximum Ratings at 25 °C

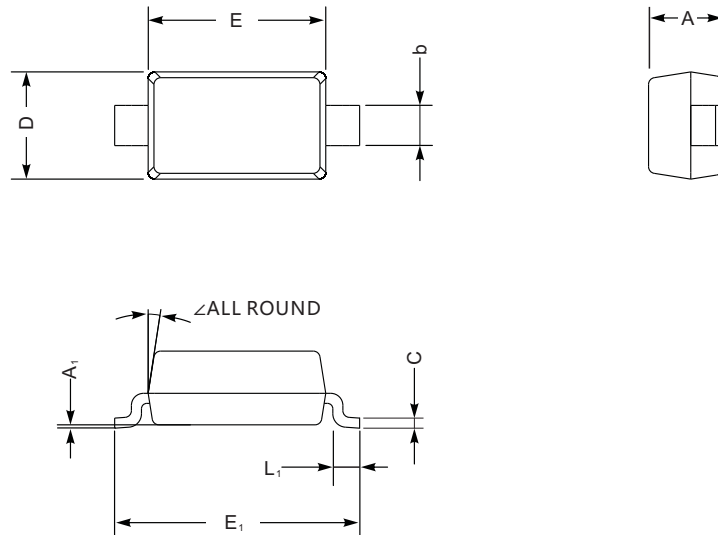
| Parameter | Symbols | BAV19W | BAV20W | BAV21W | Units |
|---|----------------|-------------|--------|--------|-------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 120 | 200 | 250 | V |
| Maximum RMS voltage | V_{RMS} | 100 | 150 | 200 | V |
| Continuous Forward Current | I_F | 250 | | | mA |
| Repetitive Peak Forward Current | I_{FRM} | 625 | | | mA |
| Non-repetitive Peak Forward Surge Current at 1s at 1ms at 1 us | 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 $T_a = 25\text{ °C}$

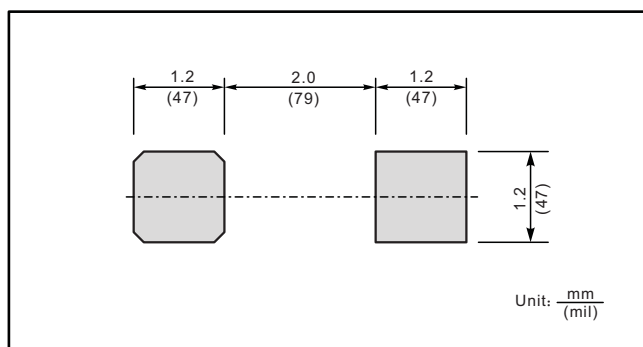
| Parameter | Symbols | BAV19W | BAV20W | BAV21W | Units |
|---|-------------|--------------|--------|--------|---------|
| Reverse Breakdown Voltage at $I_R = 100\mu A$ | $V_{(BR)R}$ | 120 | 200 | 250 | V |
| Maximum Forward Voltage at 100 mA at 200 mA | V_F | 1.00 1.25 | | | V |
| Maximum DC Reverse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

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

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-123

SOD-123 mechanical data

| UNIT | | A | C | D | E | E ₁ | L ₁ | b | A ₁ | ∠ |
|------|-----|-----|------|-----|-----|----------------|----------------|-----|----------------|----|
| mm | max | 1.3 | 0.22 | 1.8 | 2.8 | 3.9 | 0.45 | 0.7 | 0.2 | 9° |
| | min | 0.9 | 0.09 | 1.5 | 2.5 | 3.6 | 0.25 | 0.5 | — | |
| mil | max | 51 | 8.7 | 71 | 110 | 154 | 18 | 28 | 8 | |
| | min | 35 | 3.5 | 59 | 98 | 142 | 10 | 20 | — | |

The recommended mounting pad size

Marking

| Type number | Marking code |
|-------------|--------------|
| BAV19W | A8 |
| BAV20W | T2 |
| BAV21W | T3 |

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