



1.DATA SHEET

BAV19W~BAV21W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 120-250 Volts **POWER** 410mWatts

SOD-123 Unit: inch (mm)

FEATURES

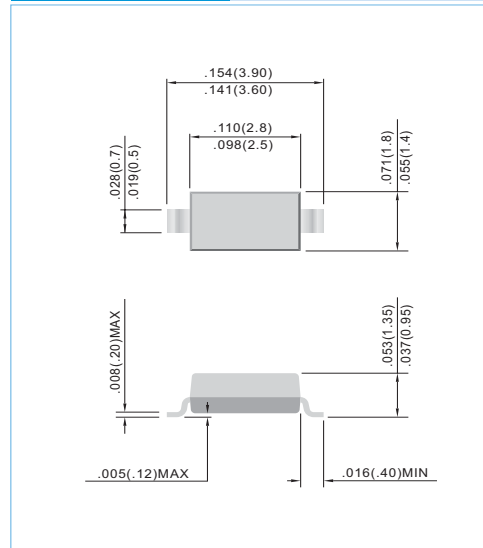
- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOD-123, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0104 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

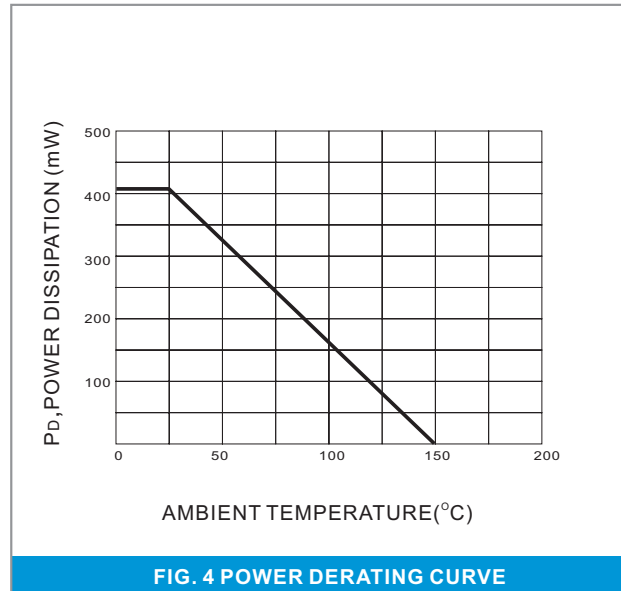
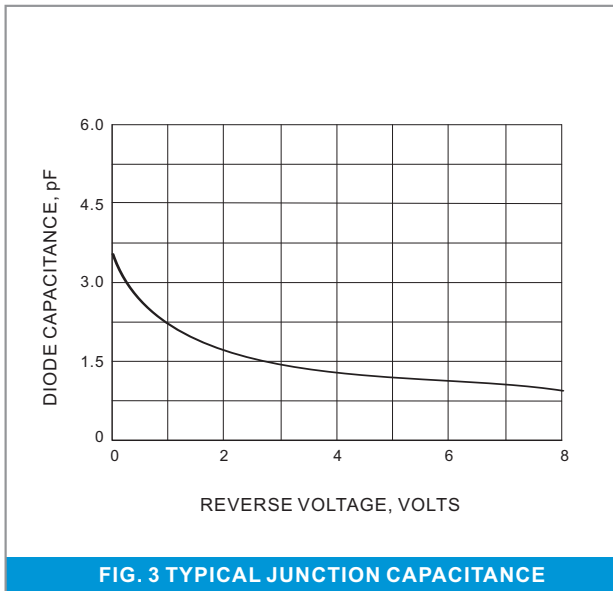
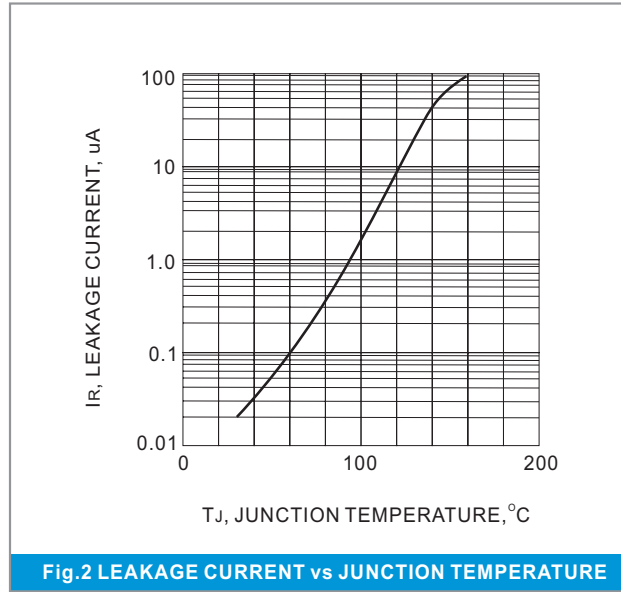
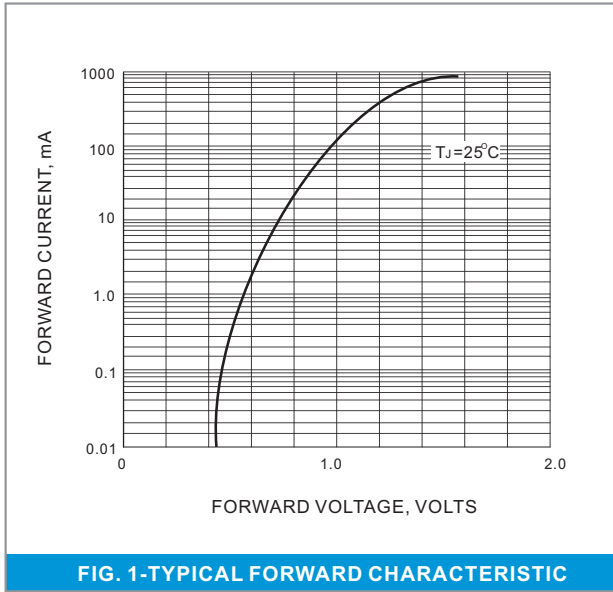
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

| PARAMETER | SYMBOL | BAV19W | BAV20W | BAV21W | UNITS |
|--|-----------------------------------|-------------|---------|---------|--------|
| Marking Code | | A8 | A80 | A82 | |
| Reverse Voltage | V _R | 100 | 150 | 200 | V |
| Peak Reverse Voltage | V _{RM} | 120 | 200 | 250 | V |
| Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz | I _O | 200 | | | mA |
| Peak Forward Surge Current, 1.0ms | I _{FSM} | 4.0 | | | A |
| Power Dissipation Derate Above 25°C | P _{TOT} | 410 | | | mW |
| Maximum Forward Voltage at 0.1A | V _F | 1.0 | | | V |
| Maximum Reverse Current at T _J =25°C | I _R | 0.1@100 | 0.1@150 | 0.1@200 | uA |
| Typical Junction Capacitance(Notes1) | C _J | 5.0 | | | pF |
| Maximum Reverse Recovery (Notes2) | T _{RR} | 50 | | | ns |
| Typical Thermal Resistance | RθJA | 450 | | | °C / W |
| Operating Junction and Storage Temperature Range | T _J , T _{STG} | -55 to +150 | | | °C |

NOTE:

1. C_J at V_R=0, f=1MHZ

2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

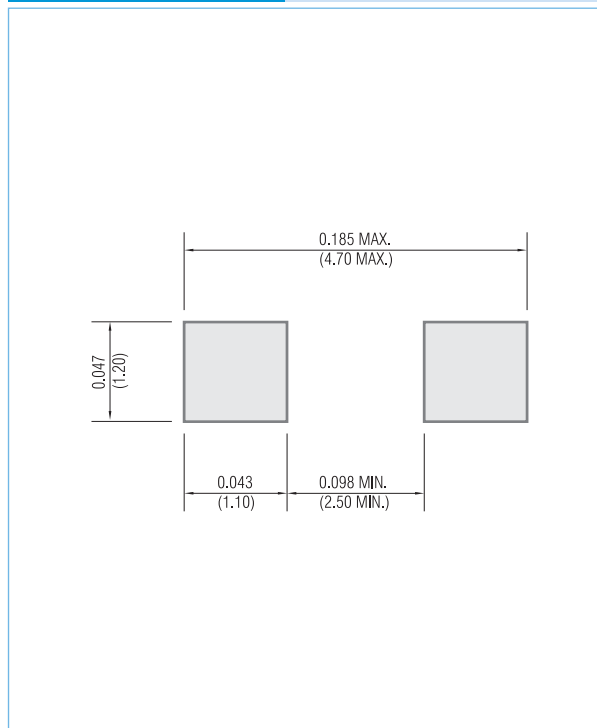




MOUNTING PAD LAYOUT

SOD-123

Unit: inch (mm)



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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