

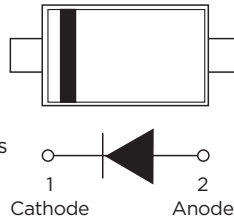
| PART NUMBER | PACKAGE | VOLTAGE | POWER | CIRCUIT CONFIGURATION |
|---|---------|----------|-------|-----------------------|
| BAV21WS-□VL E = 7" Embossed T&R (3,000) U = 13" Embossed T&R (12,000) | SOD-323 | 120-150V | 200mW | SINGLE |

FEATURES:

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion.
- Electrically Identical to Standard JEDEC.
- High Conductance
- Green molding compound as per IEC61249 standard

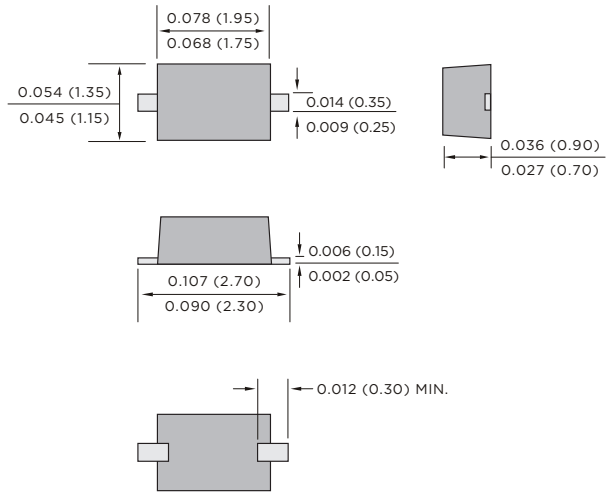
MECHANICAL DATA:

- Case: SOD-323 plastic case.
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounce, 0.0041 grams
- Marking Code: A82



SOD-323

Units: inch (mm)



MAXIMUM RATINGS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25 °C UNLESS OTHERWISE NOTED)

For capacitive load, derate current by 20%.

| PARAMETER | SYMBOL | VALUE | UNITS |
|--|--------------------------------------|-------------|-------|
| Marking Code | - | A82 | - |
| Reverse Voltage | V _R | 200 | V |
| Peak Reverse Voltage | V _{RM} | 250 | V |
| Rectified Current (Average), Half Wave Rectification with Resistive Load and f >50Hz | I _O | 200 | mA |
| Peak Forward Surge Current, 0.001ms | I _{FSM} | 4 | A |
| Repetitive Peak Forward Current at f ≥50 Hz, θ=180°, Tamb=25 °C | I _{FRM} | 625 | mA |
| Power Dissipation Derate Above 25 °C | P _{TOT} | 200 | mW |
| Maximum Forward Voltage at 0.1A | V _F | 1 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25 °C | I _R | 0.1 | μA |
| Typical Junction Capacitance (Note 1) | C _J | 5 | pF |
| Maximum Reverse Recovery Time (Note 2) | T _{RR} | 50 | ns |
| Max. Thermal Resistance (Notes 3) (Notes 4) | R _{θJA} R _{θJC} | 640 260 | °C/W |
| Operating Junction and Storage Temperature Range | T _J ,T _{STG} | -55 to +150 | °C |

NOTES:

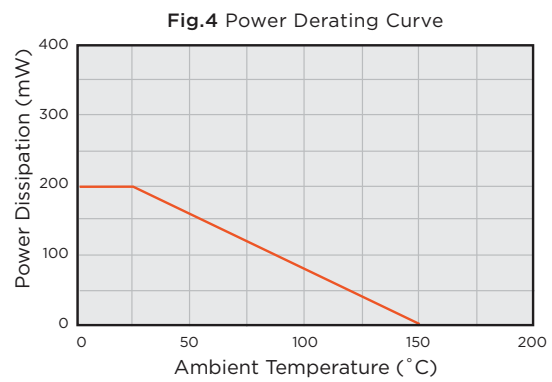
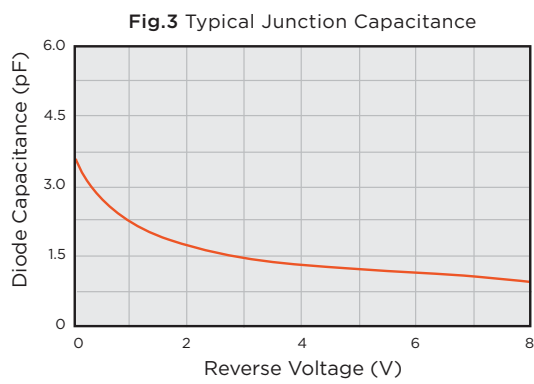
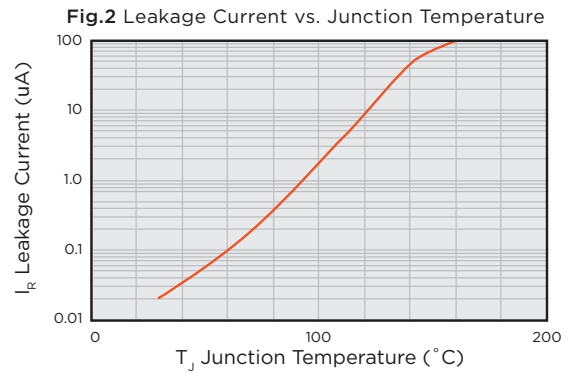
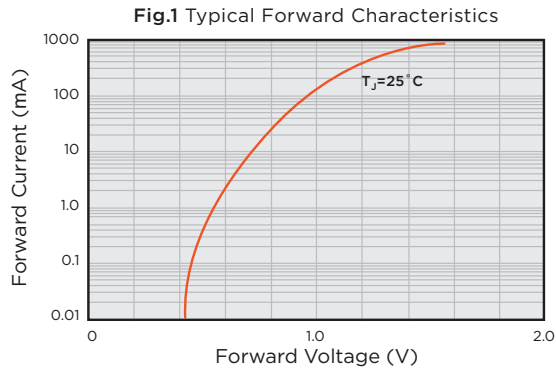
1. C_J at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω
3. Mounted with minmum recommended pas eize, PC Board FR4
4. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area

ENVIRONMENTAL INFORMATION

| | |
|----------------------------------|-----------------------|
| RoHS Status | 10 of 10 Compliant |
| REACH Status | Compliant |
| Halogen Status | Halogen Free |
| Conflict Mineral Status | Conflict Mineral Free |
| Moisture Sensitivity Level (MSL) | 1 |



GRAPHS



MOUNTING PAD LAYOUT

Units: inch (mm)

