

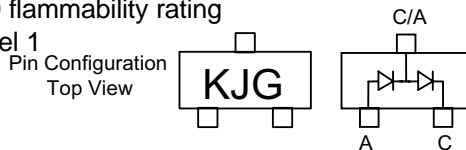


BAV99WT

200mW 75Volt Plastic-Encapsulate Diode

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1



Maximum Ratings

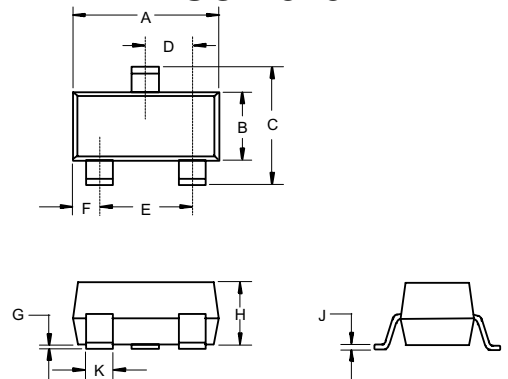
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 625 °C/W Junction to Ambient

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-----------|------------------------------------|--|
| Reverse Voltage | V_R | 75V | |
| Average Rectified Output Current | I_O | 150mA | |
| Non-Repetitive Peak Forward Surge Current | I_{FSM} | 2A 1A | @1us @1s |
| Power Dissipation | P_{TOT} | 200mW | |
| Maximum Instantaneous Forward Voltage | V_F | 715mV 855mV 1000mV 1250mV | $I_{FM} = 1mA;$ $I_{FM} = 10mA;$ $I_{FM} = 50mA;$ $I_{FM} = 150mA;$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 2.5µA | $V_R = 75Volts$ $T_J = 25°C$ |
| Typical Junction Capacitance | C_J | 2.0pF | Measured at 1.0MHz, $V_R = 0V$ |
| Reverse Recovery Time | T_{rr} | 4nS | $I_F = 10mA$ $V_R = 0V$ $R_L = 100Ω$ |

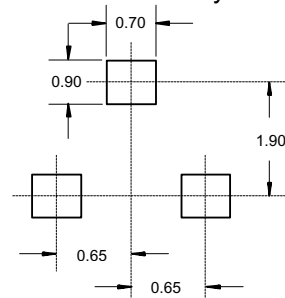
*Pulse test: Pulse width 300 µsec, Duty cycle 2%

SOT-323



| DIM | INCHES | | MM | | NOTE |
|-----|--------------|------|-------------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .071 | .087 | 1.80 | 2.20 | |
| B | .045 | .053 | 1.15 | 1.35 | |
| C | .079 | .087 | 2.00 | 2.20 | |
| D | .026 Nominal | | 0.65Nominal | | |
| E | .047 | .055 | 1.20 | 1.40 | |
| F | .012 | .016 | .30 | .40 | |
| G | .000 | .004 | .000 | .100 | |
| H | .035 | .039 | .90 | 1.00 | |
| J | .004 | .010 | .100 | .250 | |
| K | .012 | .016 | .30 | .40 | |

Suggested Solder Pad Layout



BAV99WT



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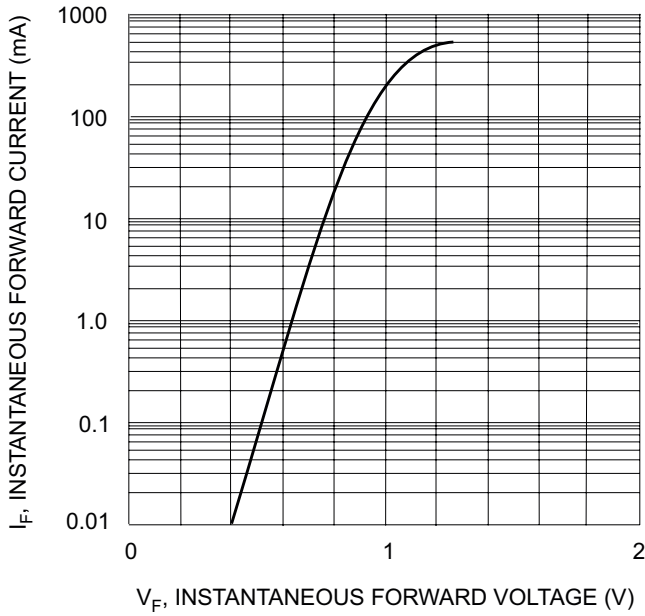


Fig. 1 Forward Characteristics

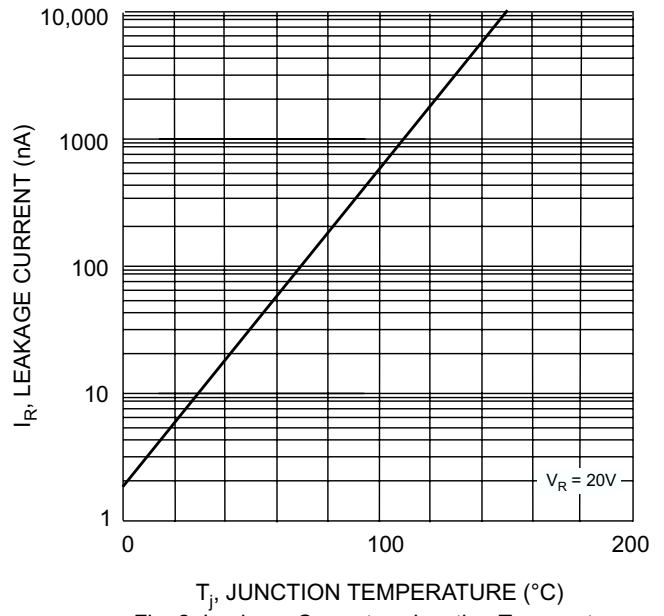


Fig. 2 Leakage Current vs Junction Temperature



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Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |

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