

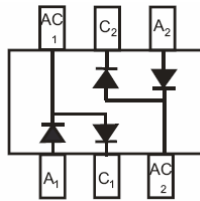


BAV199DW

200mW 85Volt Plastic-Encapsulate Diode

Features

- Low Leakage Current
- Surface Mount Package ideally Suited for Automatic Insertion
- 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
- MAKING:K52



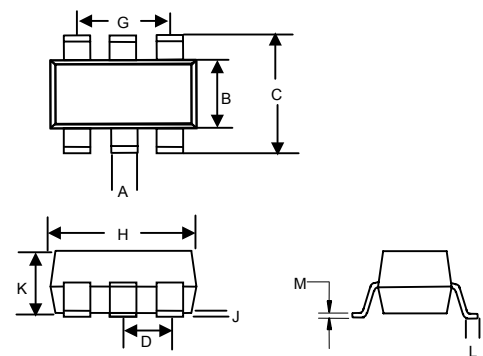
Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

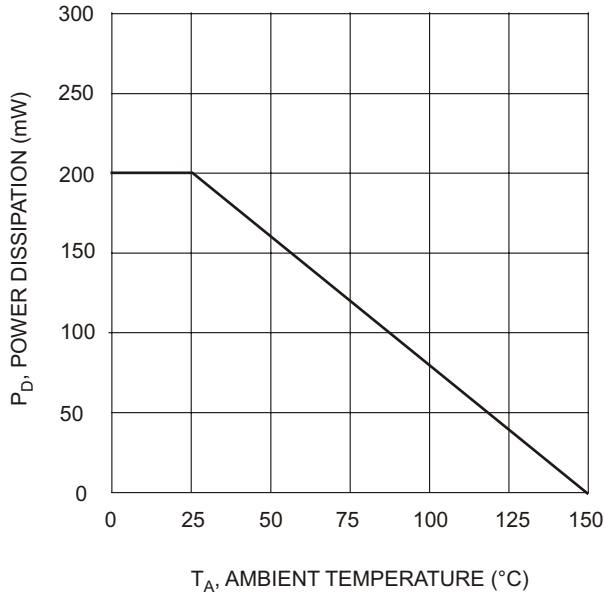
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|----------|-------------------------------|--|
| Reverse Voltage | V_R | 85V | |
| Forward continuous Current | I_{FM} | 160mA | |
| Power Dissipation | P_D | 200mW | |
| Maximum Instantaneous Forward Voltage | V_F | 0.9V 1.0V 1.1V 1.25V | $I_{FM} = 1mA;$ $I_{FM} = 10mA;$ $I_{FM} = 50mA;$ $I_{FM} = 150mA;$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5nA | $V_R=75V$ |
| Typical Junction Capacitance | C_J | 2.0pF | Measured at 1.0MHz, $V_R=0V$ |
| Reverse Recovery Time | T_{rr} | 3uS | $I_F=I_R=10mA$ $I_{rr} = 0.1 * I_R$ $R_c=100\Omega$ |

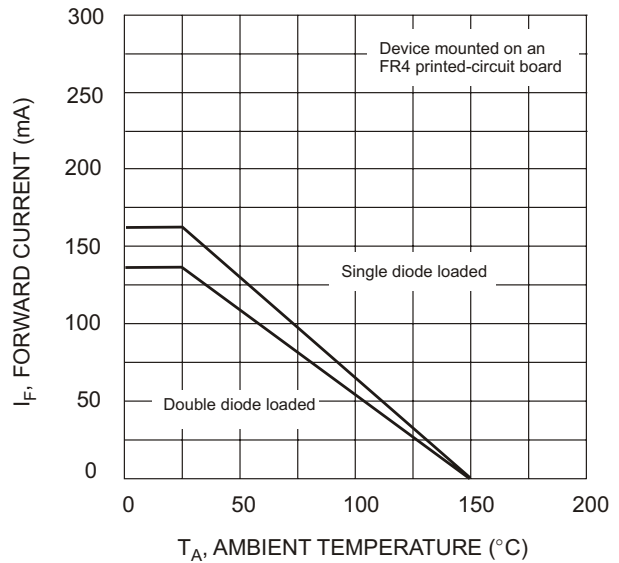
SOT-363



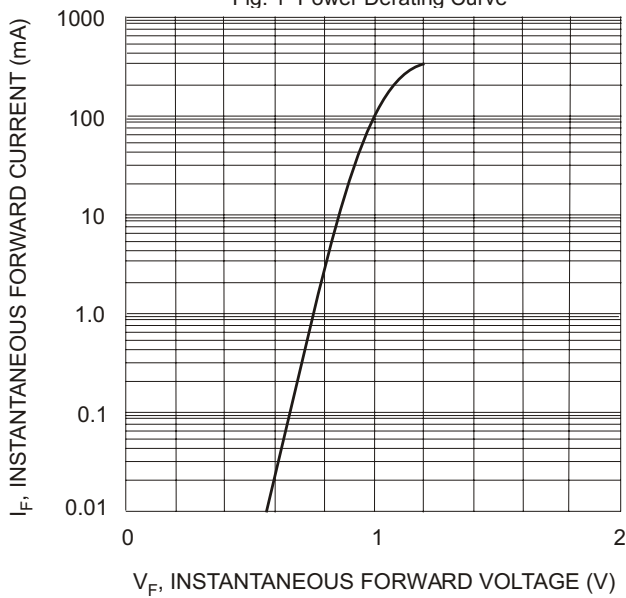
| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .006 | .014 | 0.15 | 0.35 | |
| B | .045 | .053 | 1.15 | 1.35 | |
| C | .085 | .096 | 2.15 | 2.45 | |
| D | .026 | | 0.65Nominal | | |
| G | .047 | .055 | 1.20 | 1.40 | |
| H | .071 | .087 | 1.80 | 2.20 | |
| J | --- | .004 | --- | 0.10 | |
| K | .035 | .043 | 0.90 | 1.10 | |
| L | .010 | .018 | 0.26 | 0.46 | |
| M | .003 | .006 | 0.08 | 0.15 | |



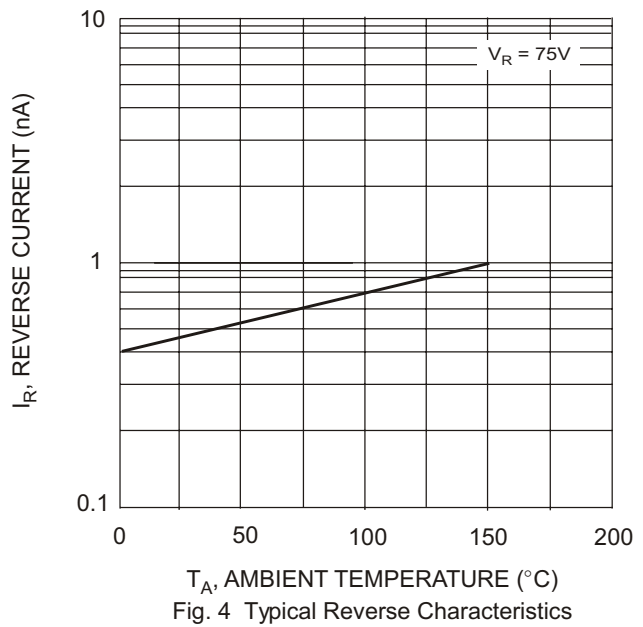
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Power Derating Curve



T_A , AMBIENT TEMPERATURE (°C)
Fig. 2 Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 3 Typical Forward Characteristics



T_A , AMBIENT TEMPERATURE (°C)
Fig. 4 Typical Reverse Characteristics



Micro Commercial Components

Ordering Information :

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

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