



Micro Commercial Components

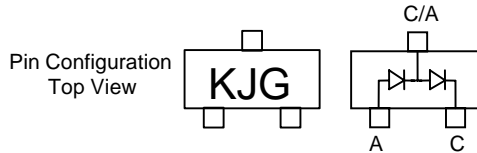
Micro Commercial Components  
 20736 Marilla Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# BAV99WT

## 200mW 75Volt Plastic-Encapsulate Diode

### Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0



### Maximum Ratings

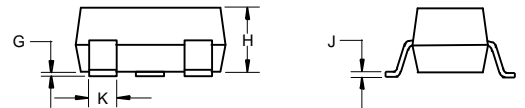
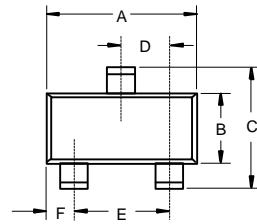
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

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

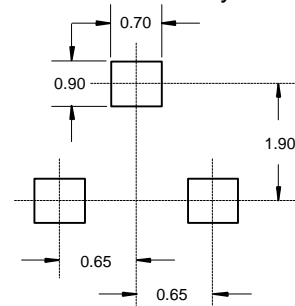
\*Pulse test: Pulse width 300 µsec, Duty cycle 2%

### 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



Micro Commercial Components

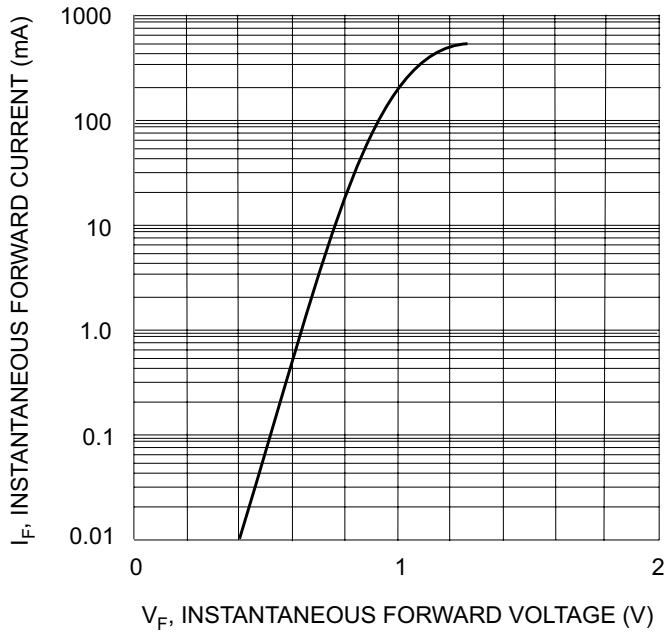


Fig. 1 Forward Characteristics

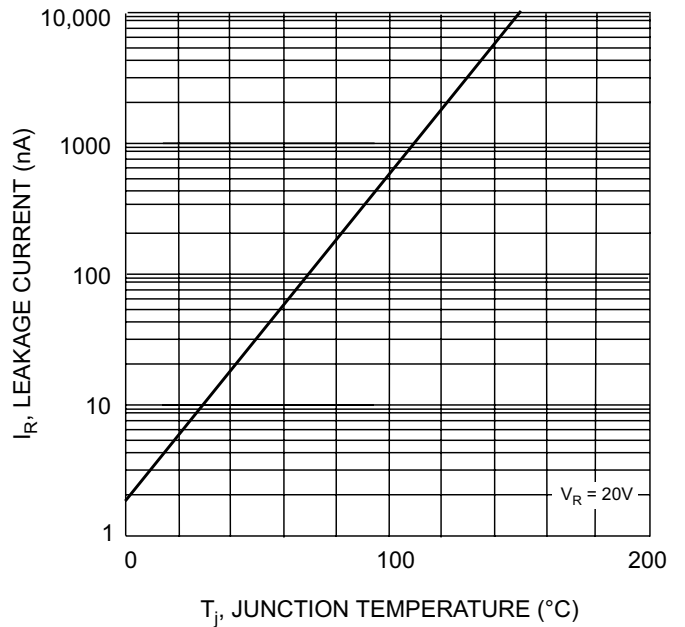


Fig. 2 Leakage Current vs Junction Temperature



™

Micro Commercial Components

**\*\*\*IMPORTANT NOTICE\*\*\***

*Micro Commercial Components Corp.* reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp.* does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

**\*\*\*APPLICATIONS DISCLAIMER\*\*\***

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.