

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

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

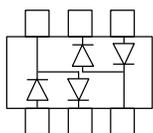
| | |
|-----------------|----------------|
| MCC Part Number | Device Marking |
| BAV99DW | KJG |

| | | | |
|---|-----------|-------|-----------|
| Average Rectified Output Current | I_o | 150mA | |
| Non-Repetitive Peak Forward Surge Current | I_{FSM} | 2.0A | $t=8.3ms$ |
| Power Dissipation | P_{TOT} | 200mW | |

Electrical Characteristics @ 25°C Unless Otherwise Specified

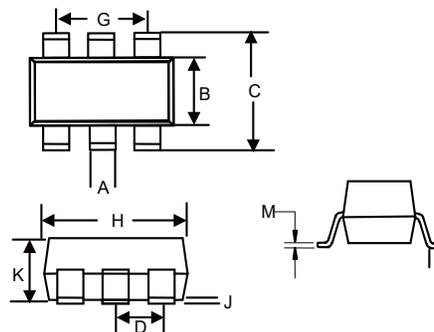
| | | | |
|---|----------|--------------------------------------|--|
| Reverse Voltage | V_R | 75V | |
| Maximum Forward Voltage | V_F | 0.715V 0.855V 1.000V 1.250V | $I_{FM}=1.0mA$ $I_{FM}=10.0mA$ $I_{FM}=50.0mA$ $I_{FM}=150.0mA$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 2.5µA 0.025µA | $V_R=75V$ $V_R=20V$ |
| Typical Junction Capacitance | C_J | 2.0pF | $V_R=0.0V, f=1.0MHz$ |
| Reverse Recovery Time | t_{rr} | 4.0ns | $I_F=10mA, I_R=10mA$ $I_{rr}=0.1 \cdot I_R, R_C=100\Omega$ |

Internal Structure



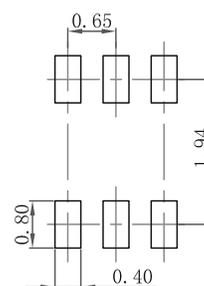
200mW 75Volt Plastic-Encapsulate Diode

SOT-363



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|--------------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.006 | 0.014 | 0.15 | 0.35 | |
| B | 0.045 | 0.053 | 1.15 | 1.35 | |
| C | 0.079 | 0.096 | 2.00 | 2.45 | |
| D | 0.026 | | 0.65 Nominal | | |
| G | 0.047 | 0.055 | 1.20 | 1.40 | |
| H | 0.071 | 0.087 | 1.80 | 2.20 | |
| J | ----- | 0.004 | ----- | 0.10 | |
| K | 0.031 | 0.037 | 0.80 | 0.95 | |
| L | 0.010 | 0.018 | 0.26 | 0.46 | |
| M | 0.003 | 0.006 | 0.08 | 0.15 | |

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

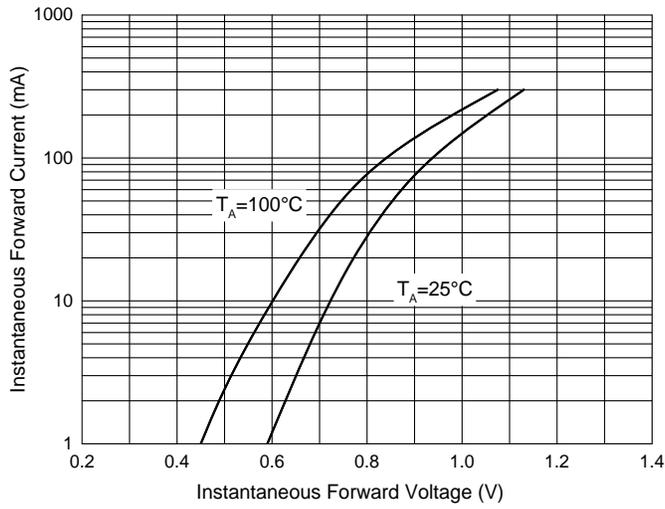


Fig. 2 - Typical Reverse Leakage Characteristics

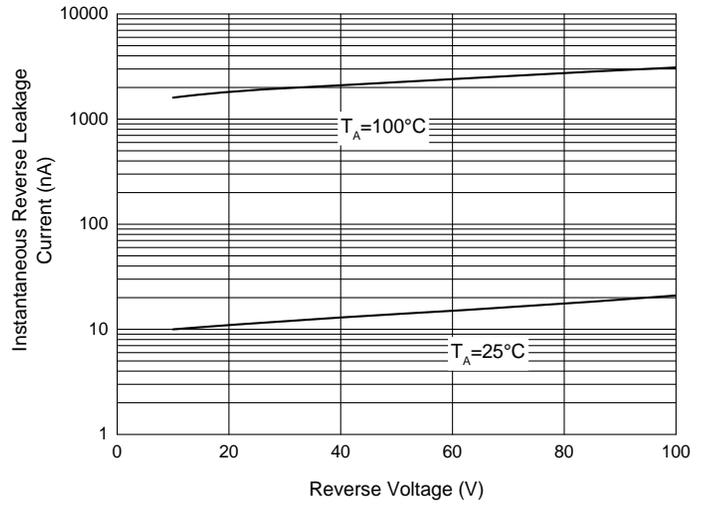
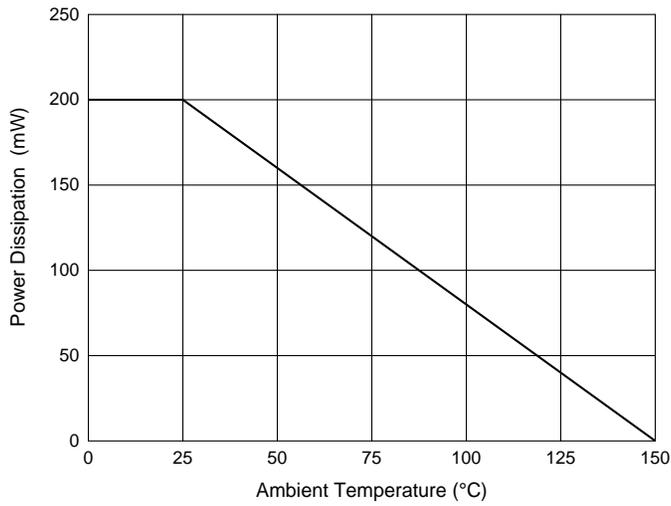


Fig. 3 - Power Derating Curve



Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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