

**Features**

- Halogen Free. "Green" Device (Note 1)
- Guard Ring Protection
- Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters
- High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

**Maximum Ratings**

- Operating Junction Temperature Range: -65°C to +125°C
- Storage Temperature Range: -65°C to +150°C
- Maximum Thermal Resistance: 500°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| BSR106WS        | X6             | 60V                                    | 42V                 | 60V                         |

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

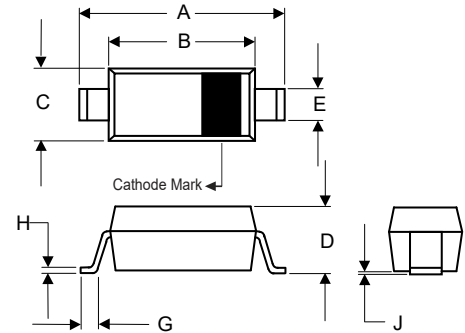
|   |             |       |   |
|---|-------------|-------|---|
| Average Forward Current                                 | $I_{F(AV)}$ | 1.0A  | $T_C = 90^\circ C$                          |
| Peak Forward Surge Current                              | $I_{FSM}$   | 10A   | 8.3ms Half Sine                             |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 0.70V | $I_{FM}=1A;$<br>$T_J = 25^\circ C$ (Note 2) |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $I_R$       | 0.1mA | $T_J = 25^\circ C$                          |
| Typical Junction Capacitance                            | $C_J$       | 120pF | Measured at 1.0MHz , $V_R=0V$               |

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Notes: 2. Pulse Test: Pulse Width 300usec, Duty Cycle 2%

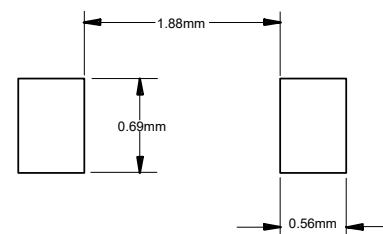
**1 Amp Schottky Barrier Rectifier  
60 Volts**

**SOD-323**



| DIM | DIMENSIONS |       |       |      | NOTE |
|-----|------------|-------|-------|------|------|
|     | INCHES     |       | MM    |      |      |
|     | MIN        | MAX   | MIN   | MAX  |      |
| A   | 0.090      | 0.107 | 2.30  | 2.70 |      |
| B   | 0.063      | 0.071 | 1.60  | 1.80 |      |
| C   | 0.045      | 0.053 | 1.15  | 1.35 |      |
| D   | 0.031      | 0.045 | 0.80  | 1.15 |      |
| E   | 0.010      | 0.016 | 0.25  | 0.40 |      |
| G   | 0.004      | 0.018 | 0.10  | 0.45 |      |
| H   | 0.004      | 0.010 | 0.10  | 0.25 |      |
| J   | -----      | 0.006 | ----- | 0.15 |      |

**Suggested Solder Pad Layout**



**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

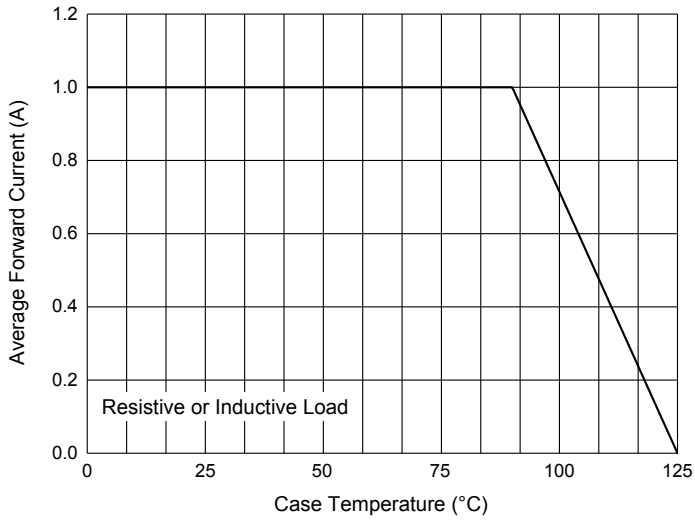


Fig. 2 - Typical Instantaneous Forward Characteristics

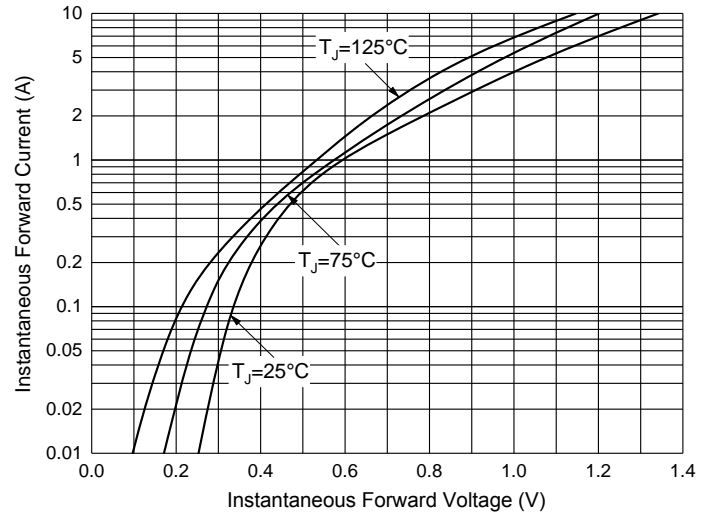
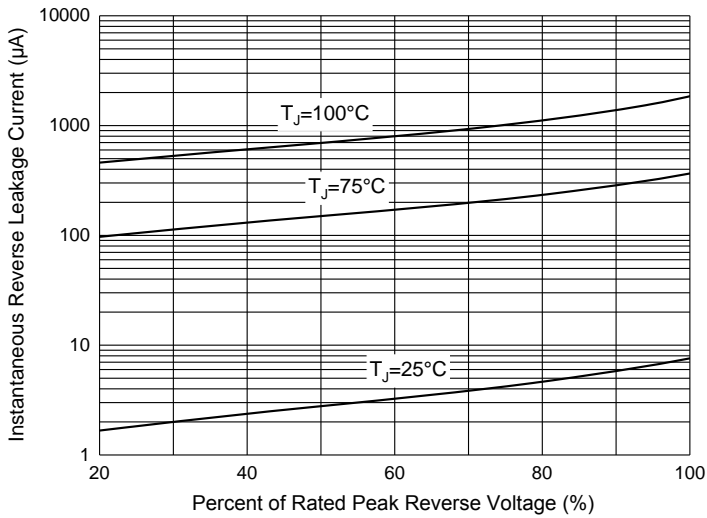


Fig. 3 - Typical Reverse Leakage Characteristics



## Ordering Information

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

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