

## Silicon Switching Diode

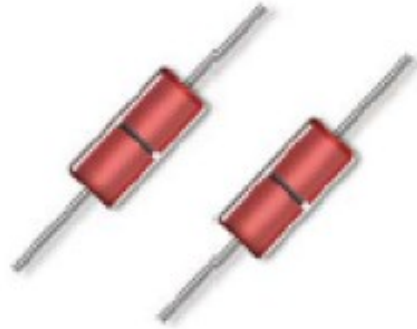
Rev. V1

### Features

- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/116
- Metallurgically Bonded
- Hermetically Sealed
- Double Plug Construction

### Maximum Ratings

Operating & Storage Temperature: -65°C to +175°C  
 Operating Current: 200 mA @  $T_A = +75^\circ\text{C}$   
 Derating Factor: 1.14 mA/°C above  $T_A = +25^\circ\text{C}$   
 Surge Current A: 2.0 A, sinewave,  $P_w = 8.3$  ms  
 DC Reverse Voltage ( $V_{RWM}$ ): 75 V



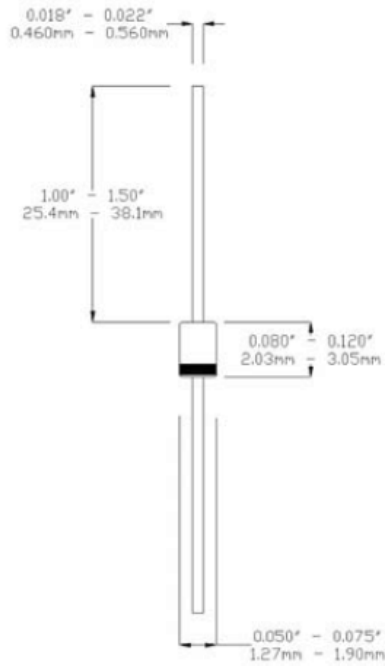
### DC Electrical Characteristics

| VF           |       |        |        | IR           |        |        |        | VBR          |       |        |        |
|--------------|-------|--------|--------|--------------|--------|--------|--------|--------------|-------|--------|--------|
| Ambient (°C) | IF mA | Min. V | Max. V | Ambient (°C) | V (dc) | Min. A | Max. A | Ambient (°C) | IR mA | Min. V | Max. V |
| 25           | 10    | —      | 0.8    | 25           | 20     | —      | 0.025  | 25           | 100   | 100    | 25     |
| 25           | 100   | —      | 1.2    | 25           | 75     | —      | 0.500  |              |       |        |        |
| 150          | 10    | —      | 0.8    | 150          | 20     | —      | 35.0   |              |       |        |        |
| -55          | 100   | —      | 1.3    | 150          | 75     | —      | 75.0   |              |       |        |        |

### AC Electrical Characteristics @ 25°C

| Parameter  | Symbol | Maximum |
|--|--------|---------|
| Capacitance @ 0 V                                | pF     | 4       |
| Capacitance @ 1.5 V                              | pF     | 2.8     |
| $T_{RR}$ @ $I_F = I_R = 10$ mA, $I_{REC} = 1$ mA | nsec   | 5       |
| $T_{FR}$ @ $I_F = 50$ mA                         | nsec   | 20      |
| $V_{FR}$ @ $I_F = 50$ mA                         | V(pk)  | 5       |

### Outline Drawing



#### LEADED DESIGN DATA

**CASE:** Hermetically sealed glass case per MIL-S-19500/116, DO – 34

**LEAD MATERIAL:** Copper clad steel

**LEAD FINISH:** Tin / Lead

**THERMAL RESISTANCE:** ( $R_{\theta JL}$ ): 250 °C/W maximum at L = 0.375 in

**THERMAL IMPEDANCE:** ( $Z_{\theta JX}$ ): 70 °C/W maximum

**POLARITY:** Cathode end is banded.

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