Features

- Through Hole Package
- Glass Passivated Diode Construction
- UL Recognized File # E165989
- High Surge Current Capability
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0

Maximum Ratings

- Operating Junction Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

<table>
<thead>
<tr>
<th>MCC Catalog Number</th>
<th>Device Marking</th>
<th>Maximum Recurrent Peak Reverse Voltage</th>
<th>Maximum RMS Voltage</th>
<th>Maximum DC Blocking Voltage</th>
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Electrical Characteristics @ 25°C Unless Otherwise Specified

- Average Forward Current: \( I_{F(AV)} = 1 \text{ A} \) \( T_A = 40°C \)
- Peak Forward Surge Current: \( I_{FSM} = 50\text{ A} \) 8.3ms, half sine
- Maximum Instantaneous Forward Voltage: \( V_F = 1.1\text{ V} \) \( I_{PM} = 1.0\text{ A}; T_J = 25°C \)
- Maximum DC Reverse Current At Rated DC Blocking Voltage: \( I_R = 10\mu\text{A} \) \( T_J = 25°C \), \( I_R = 0.5\text{ mA} \) \( T_J = 125°C \)
- Typical Junction Capacitance: \( C_J = 25\text{ pF} \) Measured at 1.0MHz, \( V_R=4.0\text{ V} \)

*Pulse Test: Pulse Width 300μsec, Duty Cycle 2%
Figure 1
Typical Forward Characteristics

Figure 2
Typical Reverse Characteristics

Figure 3
Forward Derating Curve

Figure 4
Peak Forward Surge Current

Average Forward Rectified Current - Amperes versus Case Temperature - °C

Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles
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