**FEATURES**
- High reliability
- Low switching noise
- Low forward voltage drop
- High current capability
- High switching capability

**MECHANICAL DATA**
- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: MIL-STD-202E, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 1.18 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>SR220</th>
<th>SR230</th>
<th>SR240</th>
<th>SR250</th>
<th>SR260</th>
<th>SR280</th>
<th>SR2100</th>
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<td>60</td>
<td>80</td>
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<td>30</td>
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<td>Amps</td>
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<td>pF</td>
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<tr>
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<td>°C</td>
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**NOTES:**
1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5"(12.7mm) Lead Length.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

LEAD TEMPERATURE, (°C)

AVERAGE FORWARD CURRENT, (A)

0 0.5 1.0 1.5 2.0

25 50 75 100 125 150 175

Single Half Wave 60Hz Resistive or Inductive Load 0.375" (9.5mm) Lead Length

FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

INSTANTANEOUS FORWARD CURRENT, (A)

0 10 1.0 10.0

20 50 75 100 125 150

1.1 1.3 1.5 1.7 1.9 2.1

SR220-SR250 SR250-SR2100

TJ = 25°C
Pulse Width = 300 μS
1% Duty Cycle

FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

INSTANTANEOUS REVERSE CURRENT, (mA)

0.01 0.1 1.0 10.0

TJ= 75°C
TJ= 125°C
TJ= 25°C

SR220-SR250

FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

INSTANTANEOUS REVERSE CURRENT, (mA)

0.01 0.1 1.0 10.0

TJ= 75°C
TJ= 125°C
TJ= 150°C

SR220-SR250 SR250-SR2100

FIG. 4 - TYPICAL JUNCTION CAPACITANCE

JUNCTION CAPACITANCE, (pF)

0 10 20 40 60

TJ= 25°C

FIG. 5 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

PEAK FORWARD SURGE CURRENT, (A)

0 10 20 30 40 50

1 2 4 6 8 10 20 40 80 100

8.3ms Single Half Sine-Wave JEDEC Method

REVERSE VOLTAGE, (V)

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