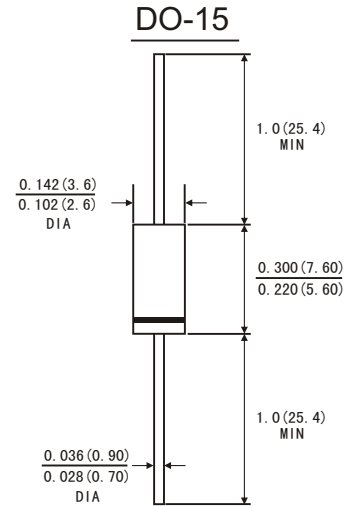


### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- *Terminals*: Plated axial leads, solderable per MIL-STD-750,method 2026
- *Polarity*: color band denotes cathode end
- *Mounting Position*: Any
- *Weight*: 0.014ounce, 0.39 gram



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

|                                                                                                  | Symbols               | SR 220     | SR 230 | SR 240 | SR 250 | SR 260 | SR 280 | SR 2100 | SR 2150 | SR 2200 | Units             |
|--------------------------------------------------------------------------------------------------|-----------------------|------------|--------|--------|--------|--------|--------|---------|---------|---------|-------------------|
| Maximum repetitive peak reverse voltage                                                          | V <sub>RRM</sub>      | 20         | 30     | 40     | 50     | 60     | 80     | 100     | 150     | 200     | V <sub>olts</sub> |
| Maximum RMS voltage                                                                              | V <sub>RMS</sub>      | 14         | 21     | 28     | 35     | 42     | 57     | 71      | 105     | 140     | V <sub>olts</sub> |
| Maximum DC blocking voltage                                                                      | V <sub>DC</sub>       | 20         | 30     | 40     | 50     | 60     | 80     | 100     | 150     | 200     | V <sub>olts</sub> |
| Maximum average forward rectified current<br>0.375"(9.5mm) lead length at T <sub>L</sub> =75°C   | I(AV)                 | 2.0        |        |        |        |        |        |         |         |         | Amps              |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I <sub>FSM</sub>      | 50.0       |        |        |        |        |        |         |         |         | Amps              |
| Maximum instantaneous forward voltage at 2.0 A(Note 1 )                                          | V <sub>F</sub>        | 0.55       |        |        | 0.70   |        | 0.85   |         | 0.90    | 0.95    | V <sub>olts</sub> |
| Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)                       | T <sub>a</sub> =25°C  | 0.2        |        |        |        |        |        |         |         |         | mA                |
|                                                                                                  | T <sub>a</sub> =100°C |            |        |        |        |        |        |         |         |         |                   |
| Typical junction capacitance(Note 3)                                                             | C <sub>J</sub>        | 170        |        |        |        |        |        |         |         |         | pF                |
| Typical thermal resistance(Note 2)                                                               | R <sub>θJA</sub>      | 35.0       |        |        |        |        |        |         |         |         | °C/W              |
| Operating junction temperature range                                                             | T <sub>J</sub>        | -65 to+150 |        |        |        |        |        |         |         |         | °C                |
| Storage temperature range                                                                        | T <sub>STG</sub>      | -65 to+150 |        |        |        |        |        |         |         |         | °C                |

Notes: 1.Pulse test: 300  $\mu$  s pulse width,1% duty cycle

2.Thermal resistance from junction to lead, and/or to ambient P.C.B. mounted with 0.375"(9.5mm) lead length with 1.5 X1.5"(38X38mm)copper pads

3.Measured at 1.0MHz and reverse voltage of 4.0 volts

# RATINGS AND CHARACTERISTIC CURVES SR220 THRU SR2200

FIG.1-FORWARD CURRENT DERATING CURVE

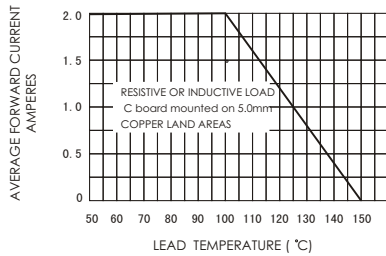


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

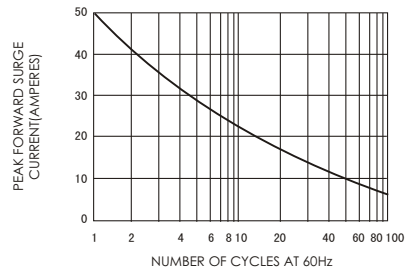


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

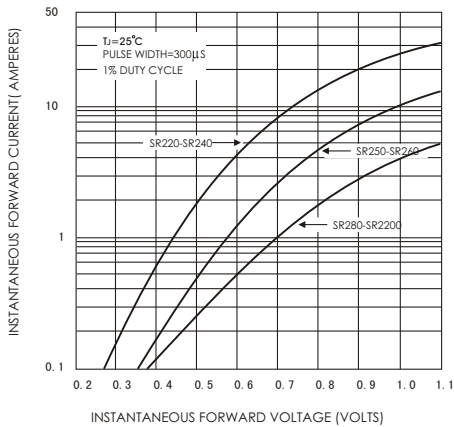


FIG.4-TYPICAL REVERSE CHARACTERISTICS

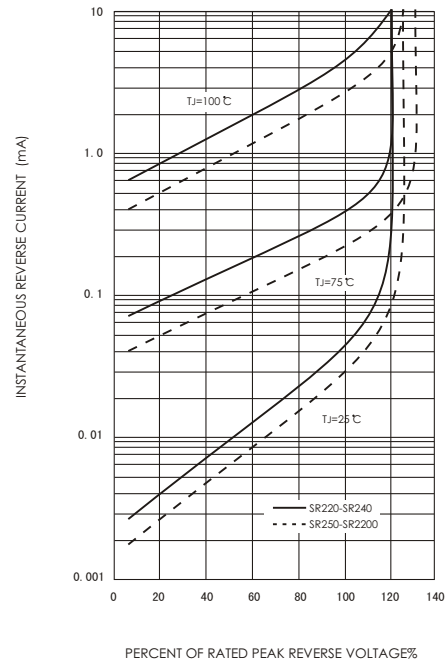
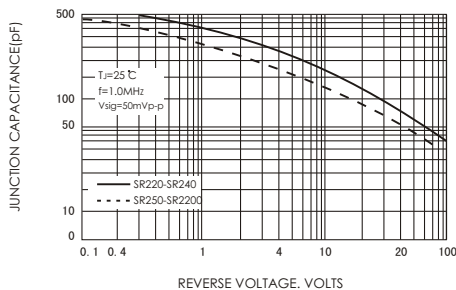


FIG.5-TYPICAL JUNCTION CAPACITANCE



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