



## Features:

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

## Mechanical Data:

|                   |                               |
|-------------------|-------------------------------|
| Case              | : JEDEC DO-27 molded plastic  |
| Polarity          | : Colour band denotes cathode |
| Weight            | : 0.04ounces , 1.1grams       |
| Mounting Position | : Any                         |
| Reverse Voltage   | : 50 to 60 Volts              |
| Forward Current   | : 3 Amperes                   |

## Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| Characteristics  | Symbol          | SR350       | SR360 | Unit |
|--|-----------------|-------------|-------|------|
| Max. Recurrent Peak Reverse Voltage  | $V_{RRM}$       | 50          | 60    | V    |
| Max. RMS Voltage   | $V_{RMS}$       | 35          | 42    |      |
| Max. DC Blocking Voltage   | $V_{DC}$        | 50          | 60    |      |
| Max. Average Forward Rectified Current<br>0.375" (9.5mm) Lead Lengths                                    | $I_{(AV)}$      | 3           |       | A    |
| Peak Forward Surge Current,<br>8.3ms Single Half Sine-wave<br>Superimposed on Rated Load (JEDEC method ) | $I_{FSM}$       | 80          |       |      |
| Peak Forward Voltage at 3A DC  | $V_F$           | 0.7         |       | V    |
| Max. DC Reverse Current at<br>Rated DC Blocking Voltage at   | $I_R$           | 1<br>20     |       | mA   |
| $T_J = 25^{\circ}C$<br>$T_J = 100^{\circ}C$  |                 |             |       |      |
| Typical Junction Capacitance (Note 1)  | $C_J$           | 250         |       | pF   |
| Typical Thermal Resistance (Note 2)  | $R_{\theta JL}$ | 10          |       | °C/W |
| Operating Temperature Range  | $T_J$           | -55 to +150 |       | °C   |
| Storage Temperature Range  | $T_{STG}$       |             |       |      |

## Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance junction to lead
3. The typical data above is for reference only

## Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

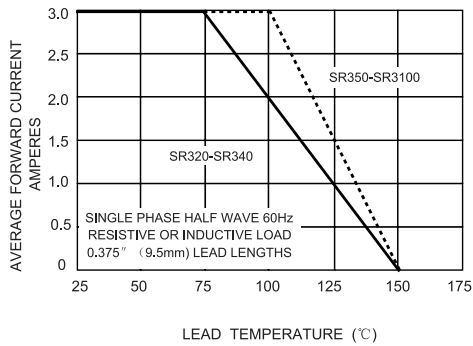


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

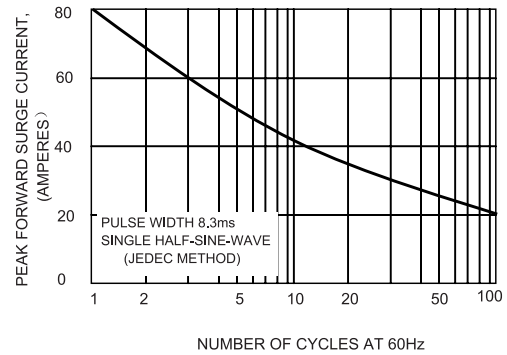


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

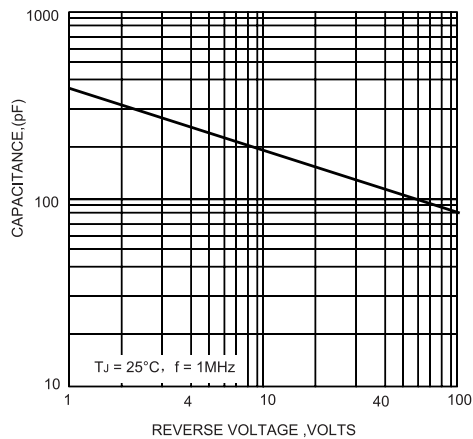


FIG. 4-TYPICAL FORWARD CHARACTERISTICS

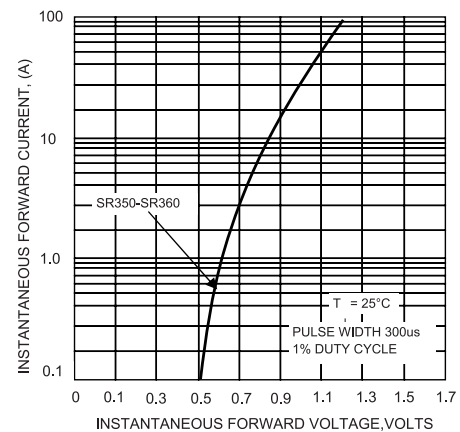
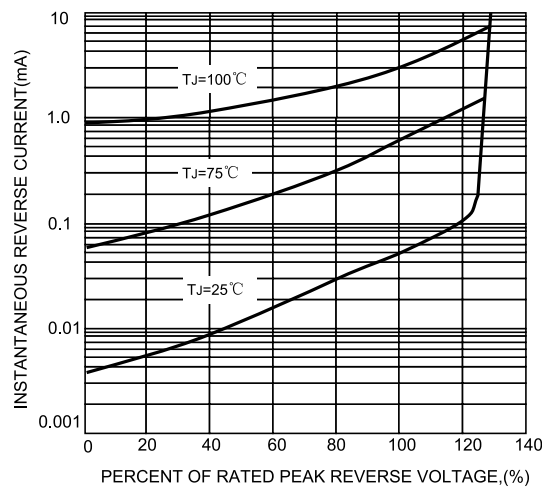
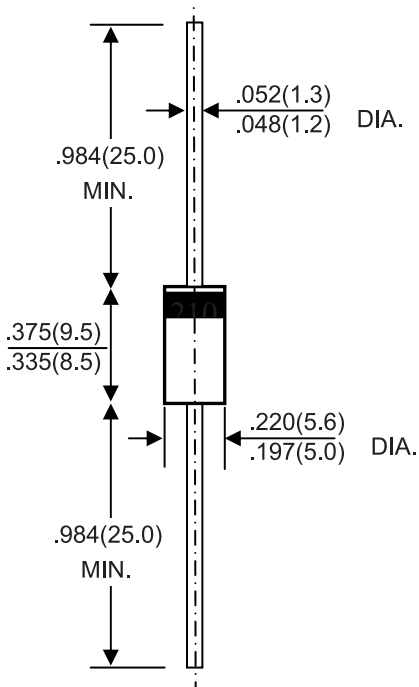


FIG. 5-TYPICAL REVERSE CHARACTERISTICS



## Dimensions:

**DO- 27**



Dimensions : Inches (Millimetres)

## Part Number Table

| Description                               | Part Number |
|---|-------------|
| Schottky Barrier Rectifier, 3A 60V, DO-27 | SR360       |
| Schottky Barrier Rectifier, 3A 50V, DO-27 | SR350       |

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