



## Features:

- For surface mounted applications
- Metal-Semiconductor junction with guarding
- Epitaxial construction
- Very low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

## Mechanical Data:

|                 |                               |
|-----------------|-------------------------------|
| Case            | : Molded Plastic              |
| Polarity        | : Colour band denotes cathode |
| Weight          | : 0.003 ounces, 0.093 grams   |
| Reverse Voltage | : 20 to 100 Volts             |
| Forward Current | : 2 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           | SS22+        | SS23+ | SS24+ | SS25+ | SS26+ | SS210+ | Unit |
|---------------------------------------------------------------------------------------------------------------|------------------|--------------|-------|-------|-------|-------|--------|------|
| Max. Repetitive Peak Reverse Voltage                                                                          | V <sub>RRM</sub> | 20           | 30    | 40    | 50    | 60    | 100    | V    |
| Max. RMS Voltage                                                                                              | V <sub>RMS</sub> | 14           | 21    | 28    | 35    | 42    | 70     |      |
| Max. DC Blocking Voltage                                                                                      | V <sub>DC</sub>  | 20           | 30    | 40    | 50    | 60    | 100    |      |
| Max. Average Forward Rectified Current<br>T <sub>L</sub> = 100°C                                              | I(AV)            | 2.0          |       |       |       |       |        | A    |
| Peak Forward Surge Current,<br>8.3ms Single Half Sine-wave<br>Superimposed on Rated Load (JEDEC method)       | I <sub>FSM</sub> | 50           |       |       |       |       |        |      |
| Peak Forward Voltage at 2A DC                                                                                 | V <sub>F</sub>   | 0.55         |       |       | 0.7   |       | 0.85   | V    |
| Max. DC Reverse Current at<br>T <sub>J</sub> = 25°C<br>Rated DC Blocking Voltage at<br>T <sub>J</sub> = 100°C | I <sub>R</sub>   | 1<br>20      |       |       |       |       |        | mA   |
| Typical Junction Capacitance (Note 1)                                                                         | C <sub>J</sub>   | 200          |       |       |       |       |        | pF   |
| Typical Thermal Resistance (Note 2)                                                                           | RθJL             | 15           |       |       |       |       |        | °C/W |
| Operating Temperature Range                                                                                   | T <sub>J</sub>   | -55 to + 150 |       |       |       |       |        | °C   |
| Storage Temperature Range                                                                                     | T <sub>STG</sub> |              |       |       |       |       |        |      |

## Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4V 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

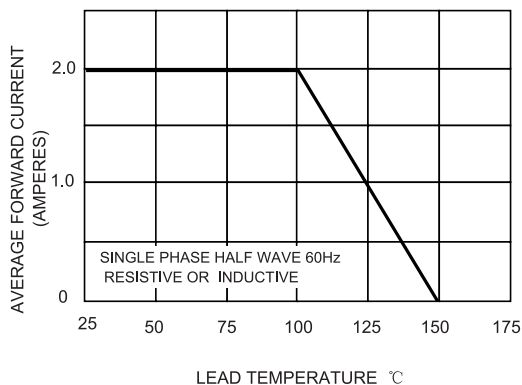


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

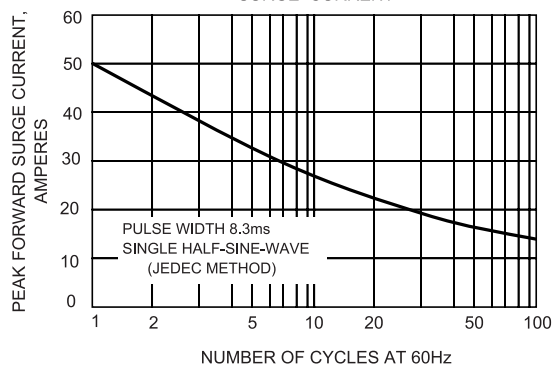


FIG.3-TYPICAL FORWARD CHARACTERISTICS

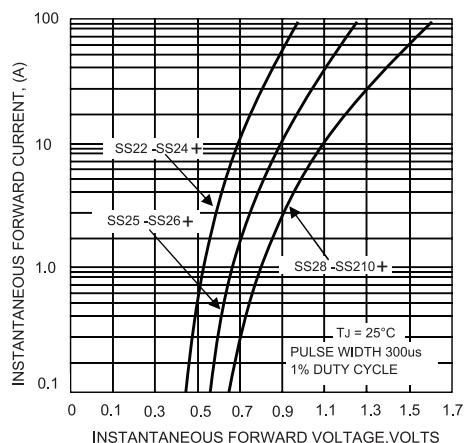


FIG.4-TYPICAL JUNCTION CAPACITANCE

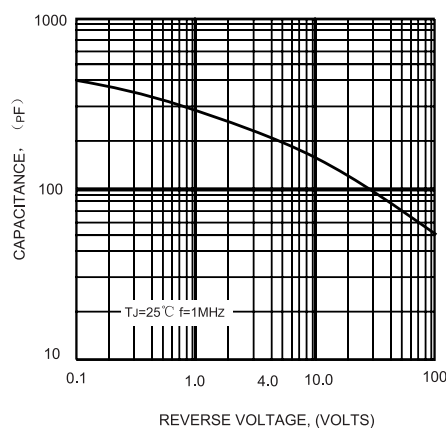
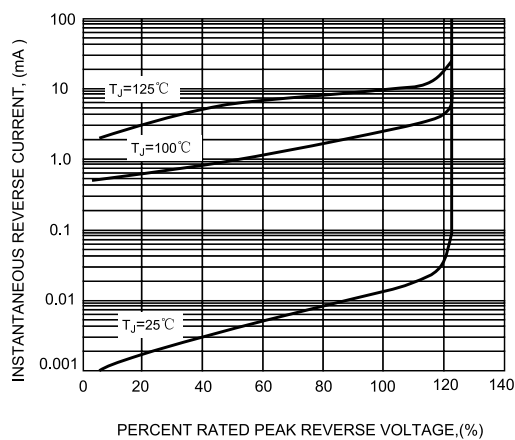
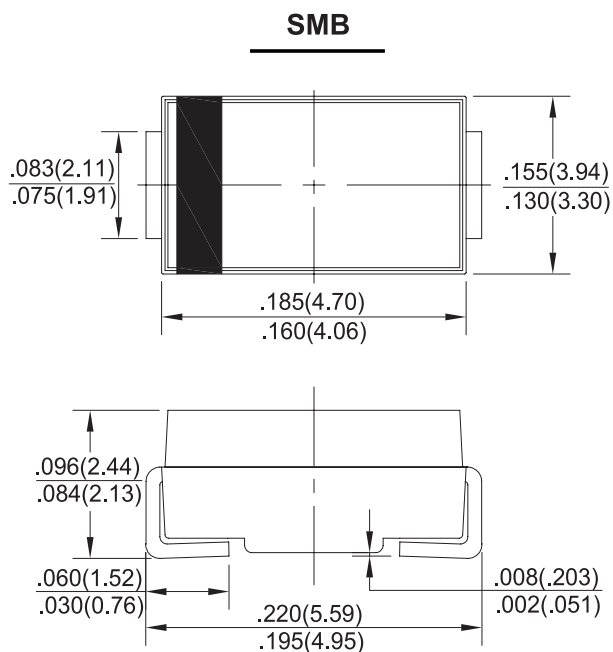


FIG.5-TYPICAL REVERSE CHARACTERISTICS



## Dimensions:



Dimensions : Inches (Millimetres)

## Part Number Table

| Description                                  | Part Number |
|----------------------------------------------|-------------|
| Surface Mount<br>Schottky Barrier Rectifiers | SS22+       |
|                                              | SS23+       |
|                                              | SS24+       |
|                                              | SS25+       |
|                                              | SS26+       |
|                                              | SS210+      |

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