



# SS22 THRU SS2200

## Surface Mount Schottky Rectifiers

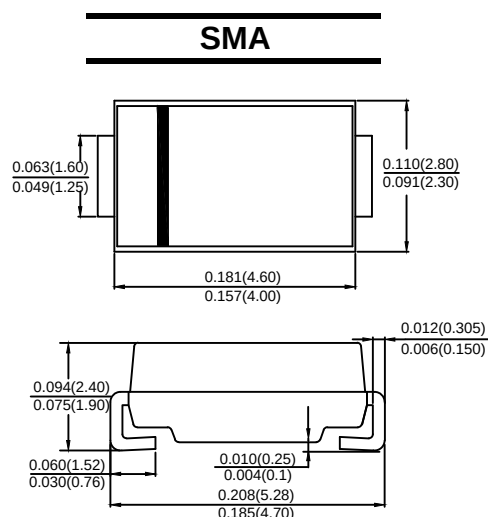
### FEATURES

- Low profile package
- Low power losses, high efficiency
- Easy to pick and place
- High forward surge capability
- High temperature soldering : 260°C/10 seconds at terminals
- Lead free in comply with EU ROHS 2011/65/EU directives



### Mechanical Data

- **Case** : SMA
- **Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity** : Cathode line denotes the cathode end
- **Mounting Position** : Any



Dimensions in inches and (millimeters)

### 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                                                                                        | Symbols           | SS22        | SS24 | SS26 | SS28 | SS210 | SS2150 | SS2200 | UNIT |
|--------------------------------------------------------------------------------------------------------|-------------------|-------------|------|------|------|-------|--------|--------|------|
| Maximum Recurrent Peak Reverse Voltage                                                                 | V <sub>RRM</sub>  | 20          | 40   | 60   | 80   | 100   | 150    | 200    | V    |
| Maximum RMS Bridge Input Voltage                                                                       | V <sub>RMS</sub>  | 14          | 28   | 42   | 56   | 70    | 105    | 140    | V    |
| Maximum DC Blocking Voltage                                                                            | V <sub>DC</sub>   | 20          | 40   | 60   | 80   | 100   | 150    | 200    | V    |
| Maximum Average Forward Rectified Current                                                              | I <sub>(AV)</sub> | 2           |      |      |      |       |        |        | A    |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Superimposed on Rated Load (JEDEC Method) | I <sub>FSM</sub>  | 50          |      |      |      |       |        |        | A    |
| Maximum Forward Voltage at 2A                                                                          | V <sub>F</sub>    | 0.55        |      | 0.70 | 0.85 |       | 0.95   |        | V    |
| Maximum DC Reverse Current T <sub>A</sub> =25°C                                                        | I <sub>R</sub>    | 0.2         |      |      | 0.1  |       |        |        | mA   |
| at Rated DC Blocking Voltage T <sub>A</sub> =100°C                                                     |                   | 10          |      |      | 5    |       |        |        | mA   |
| Typical Thermal Resistance                                                                             | R <sub>θJA</sub>  | 72          |      |      |      |       |        |        | °C/W |
| Operating Temperature Range                                                                            | T <sub>J</sub>    | -55 to +150 |      |      |      |       |        |        | °C   |
| Storage Temperature Range                                                                              | T <sub>STG</sub>  | -55 to +150 |      |      |      |       |        |        | °C   |



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### Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

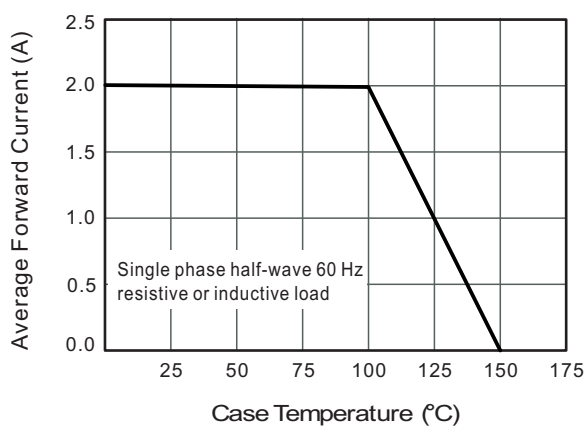


Fig.2 Typical Reverse Characteristics

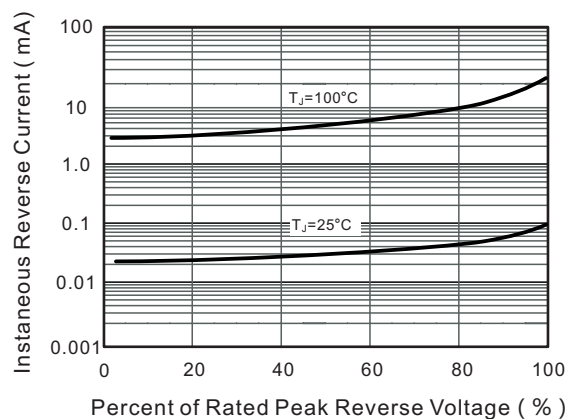


Fig.3 Typical Forward Characteristics

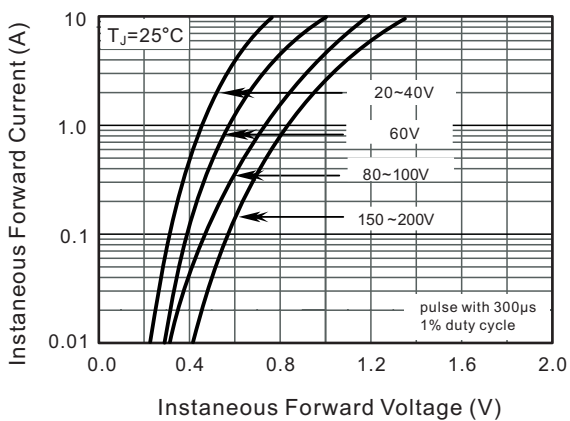
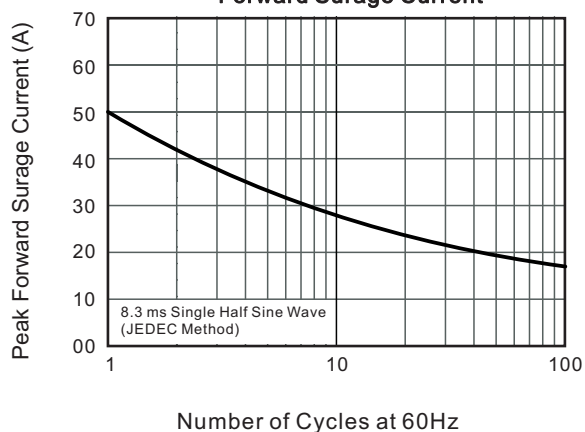


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



### The recommended mounting pad size(SMA)

