



## Features

- For surface mounted applications.
- Metal-Semiconductor junction with guarding.
- Epitaxial construction.
- Very low forward voltage drop.
- High current capability.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

## Specifications

Reverse Voltage : 30V  
Forward Current : 1 Amperes  
Case : Moulded plastic.  
Polarity : Colour band denotes cathode.  
Weight : 0.007 oz, 0.21 g.

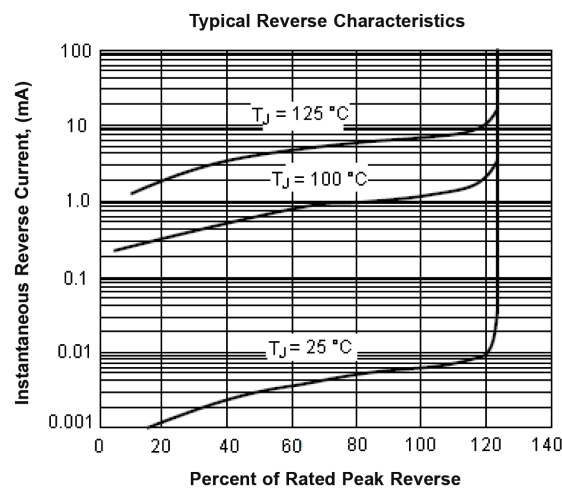
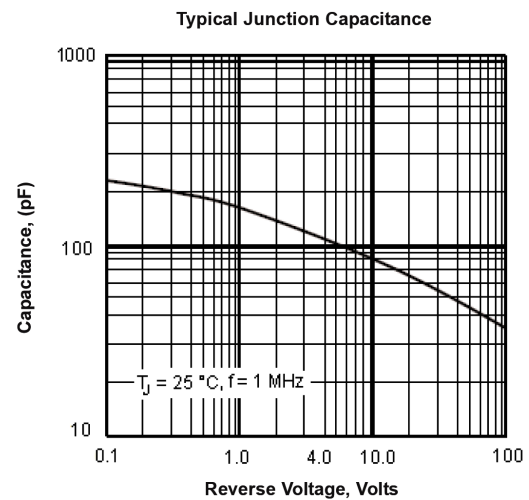
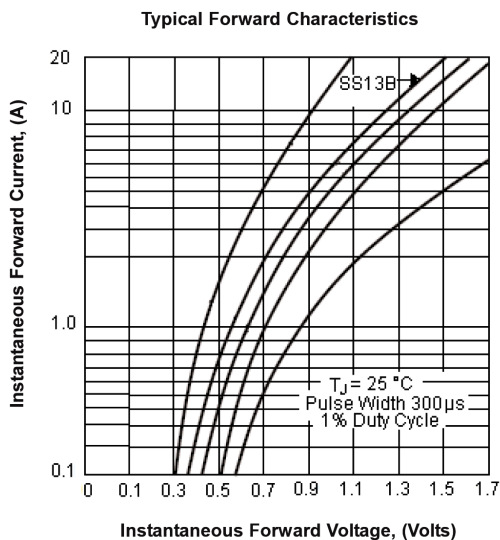
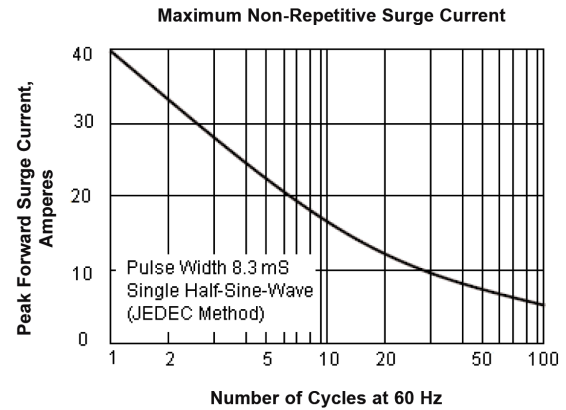
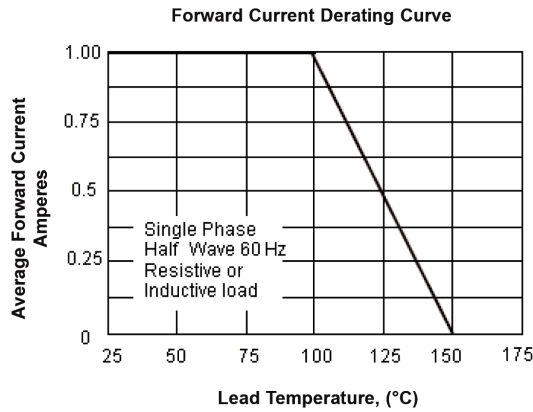
## Maximum Ratings and Electrical Characteristics

Rating 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%.

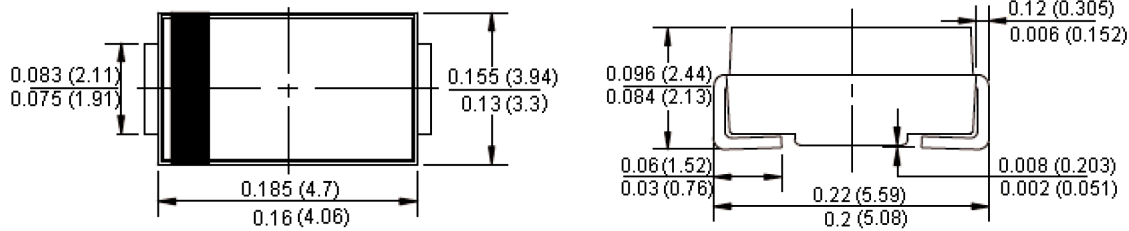
| Characteristics                                                                                          | Symbol            | Values      | Unit   |
|----------------------------------------------------------------------------------------------------------|-------------------|-------------|--------|
| Max. Recurrent Peak Reverse Voltage                                                                      | V <sub>RRM</sub>  | 30          | V      |
| Max. RMS Voltage                                                                                         | V <sub>RMS</sub>  | 21          |        |
| Max. DC Blocking Voltage                                                                                 | V <sub>DC</sub>   | 30          |        |
| Maximum Average Forward Rectified Current at T <sub>L</sub> = 100°C                                      | I <sub>(AV)</sub> | 1           | A      |
| Peak Forward Surge Current<br>8.3 ms Single Half Sine-wave<br>Super Imposed on Rated Load (JEDEC Method) | I <sub>FSM</sub>  | 40          |        |
| Max. Forward Voltage at 1A DC                                                                            | V <sub>F</sub>    | 0.55        | V      |
| Max. DC Reverse Current at T <sub>J</sub> = 25°C<br>Rated DC Blocking Voltage at T <sub>J</sub> = 100°C  | I <sub>R</sub>    | 1<br>10     | mA     |
| Typical Junction Capacitance (Note 1)                                                                    | C <sub>J</sub>    | 110         | pF     |
| Typical Thermal Resistance (Note 2)                                                                      | R <sub>θJA</sub>  | 20          | °C / W |
| Operating Temperature Range                                                                              | T <sub>J</sub>    | -55 to +150 | °C     |
| Storage Temperature Range                                                                                | T <sub>STG</sub>  |             |        |

**Notes** : 1. Measured at 1MHz and applied reverse voltage of 4V DC.  
2. Thermal resistance junction to ambient.

## Rating and Characteristics Curves



## DO-214AA (SMB)



Dimensions : Millimetres

## Part Number Table

| Description                                 | Part Number |
|---------------------------------------------|-------------|
| Schottky Rectifier, 30V, 1A, DO-214AA (SMB) | SS13B       |

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