



# SS12F-PJ~SS120F-PJ

## Schottky Barrier Diode

### Features

- Low power loss, high efficiency
- For surface mounted applications
- High forward surge current capability

### SMAF



1.Cathode  2.Anode

### Marking Code:

SS12F-PJ : SS12  
SS14F-PJ : SS14  
SS16F-PJ : SS16  
SS18F-PJ : SS18  
SS110F-PJ : SS110  
SS112F-PJ : SS112  
SS115F-PJ : SS115  
SS120F-PJ : SS120

### Absolute Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter                                                                                                       | Symbol             | SS12F-PJ    | SS14F-PJ | SS16F-PJ | SS18F-PJ | SS110F-PJ | SS112F-PJ | SS115F-PJ | SS120F-PJ | Unit |
|-----------------------------------------------------------------------------------------------------------------|--------------------|-------------|----------|----------|----------|-----------|-----------|-----------|-----------|------|
| Maximum Repetitive Peak Reverse Voltage                                                                         | V <sub>RRM</sub>   | 20          | 40       | 60       | 80       | 100       | 120       | 150       | 200       | V    |
| Maximum RMS Voltage                                                                                             | V <sub>RMS</sub>   | 14          | 28       | 42       | 56       | 70        | 84        | 105       | 140       | V    |
| Maximum DC Blocking Voltage                                                                                     | V <sub>DC</sub>    | 20          | 40       | 60       | 80       | 100       | 120       | 150       | 200       | V    |
| Maximum Average Forward Rectified Current                                                                       | I <sub>F(AV)</sub> | 1.0         |          |          |          |           |           |           |           | A    |
| Peak Forward Surge Current,8.3ms<br>Single Half Sine-wave Superimposed<br>on Rated Load (JEDEC method)          | I <sub>FSM</sub>   | 50          |          |          |          |           |           |           |           | A    |
| Maximum Instantaneous Forward Voltage at 1 A                                                                    | V <sub>F</sub>     | 0.55        |          | 0.70     | 0.85     |           |           | 0.90      |           | V    |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage<br>T <sub>A</sub> = 25 °C<br>T <sub>A</sub> = 100 °C | I <sub>R</sub>     | 0.3<br>10   |          |          | 0.2<br>5 |           |           | 0.1<br>2  |           | mA   |
| Typical Junction Capacitance <sup>Note1</sup>                                                                   | C <sub>J</sub>     | 110         |          | 80       |          |           |           |           |           | pF   |
| Typical Thermal Resistance <sup>Note2</sup>                                                                     | R <sub>θJA</sub>   | 95          |          |          |          |           |           |           |           | °C/W |
| Operating Junction Temperature Range                                                                            | T <sub>J</sub>     | -55 to +125 |          |          |          |           |           |           |           | °C   |
| Storage Temperature Range                                                                                       | T <sub>STG</sub>   | -55 to +150 |          |          |          |           |           |           |           | °C   |

### Note:

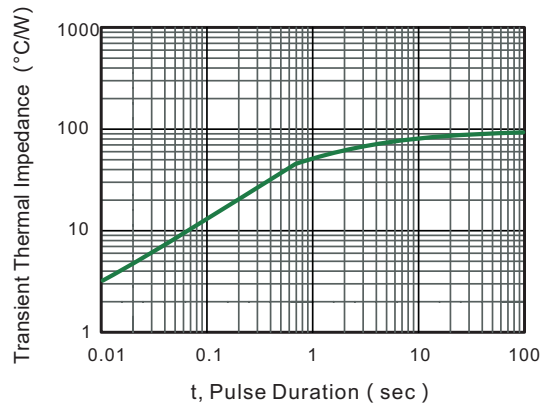
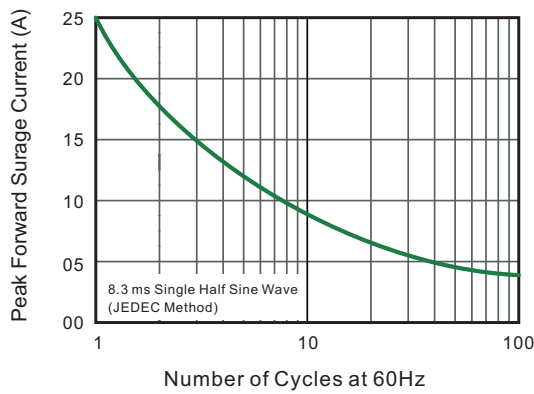
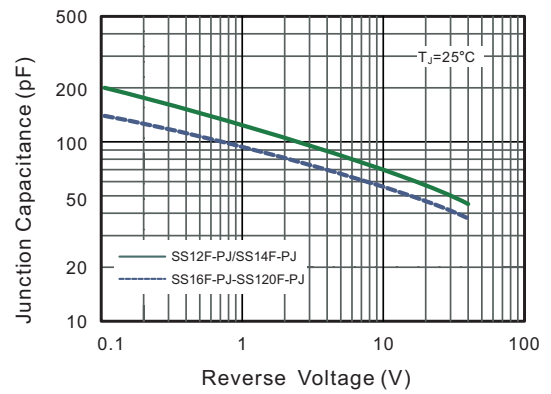
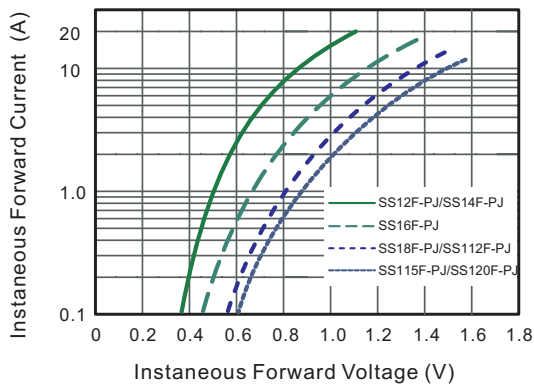
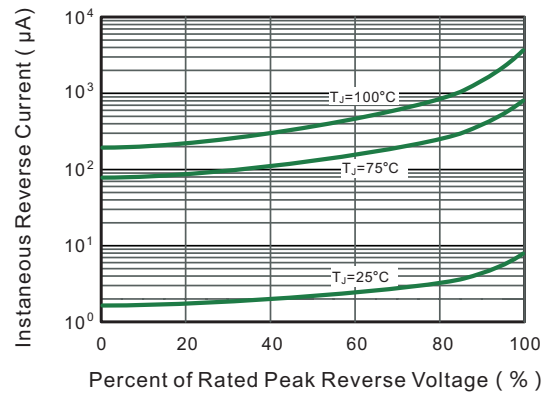
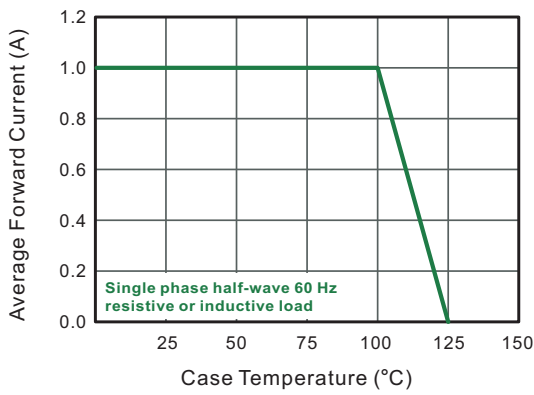
1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



# SS12F-PJ~SS120F-PJ

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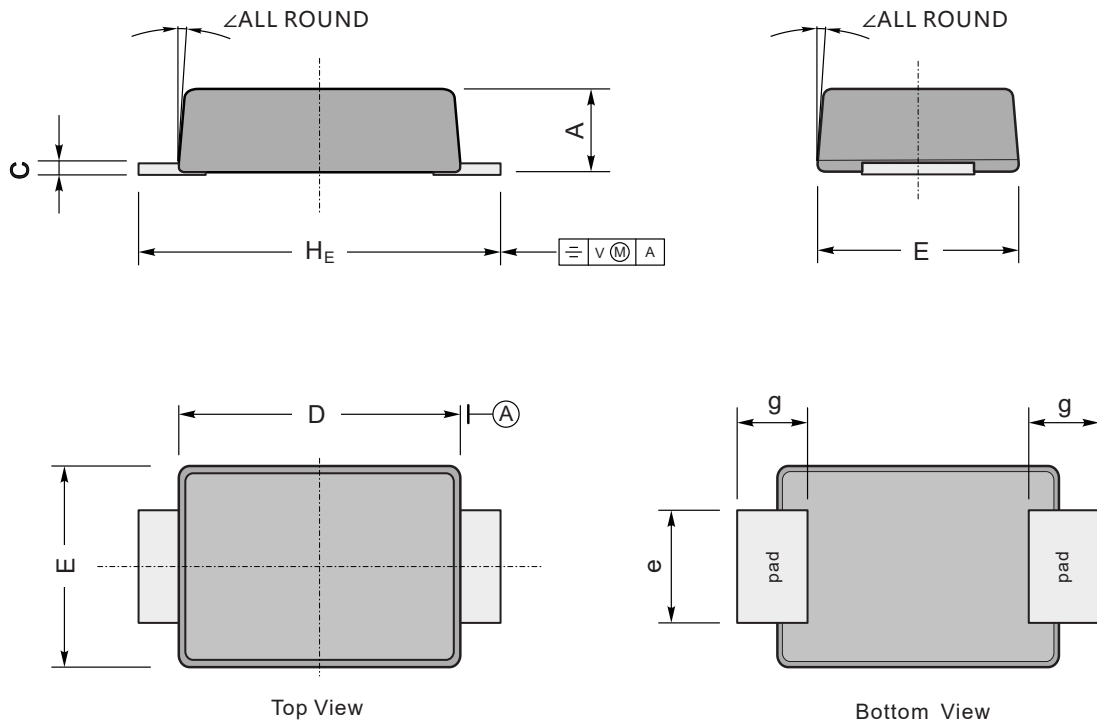
### Typical Characteristic Curves



### Package Outline

SMAF

Dimensions in mm



| UNIT |     | A   | C    | D   | E   | e   | g   | H <sub>E</sub> | ∠  |
|------|-----|-----|------|-----|-----|-----|-----|----------------|----|
| mm   | max | 1.2 | 0.20 | 3.7 | 2.7 | 1.6 | 1.2 | 4.9            | 7° |
|      | min | 0.9 | 0.12 | 3.3 | 2.4 | 1.3 | 0.8 | 4.4            |    |
| mil  | max | 47  | 7.9  | 146 | 106 | 63  | 47  | 193            |    |
|      | min | 35  | 4.7  | 130 | 94  | 51  | 31  | 173            |    |