

Surface Mount General Purpose Silicon Rectifiers Reverse Voltage - 50 to 1000 V

Forward Current - 3 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- · Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

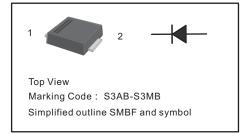
· Case: SMBF

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 57mg / 0.002oz

PINNING

| PIN | DESCRIPTION | | |
|-----|-------------|--|--|
| 1 | Cathode | | |
| 2 | Anode | | |



Maximum Ratings and Electrical characteristics

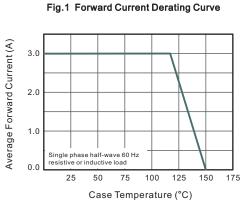
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

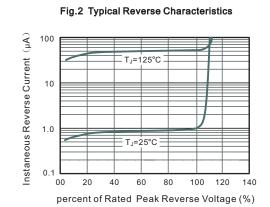
| Parameter | Symbols | S3ABF | S3BBF | S3DBF | S3GBF | S3JBF | S3KBF | S3MBF | Units |
|--|-----------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current at T _c = 115 °C | I _{F(AV)} | 3 | | | | | | | А |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load | I _{FSM} | 80 | | | | | | А | |
| Maximum Instantaneous Forward Voltage at 3 A | V _F | 1.1 | | | | | | V | |
| Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C | I _R | 5 150 | | | | | | μA | |
| Typical Junction Capacitance (1) | C _j | 35 | | | | | | pF | |
| Typical Thermal Resistance (2) | $R_{	heta_{JA}} \ R_{	heta_{JC}}$ | 45 15 | | | | | | °C/W | |
| Operating and Storage Temperature Range | T_{j},T_{stg} | -55 ~ +150 | | | | | | °C | |

⁽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.









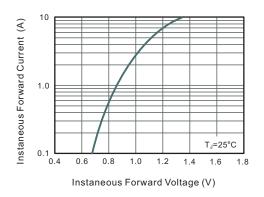


Fig.4 Typical Junction Capacitance

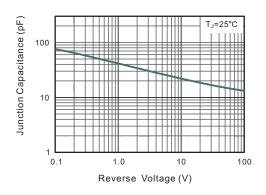
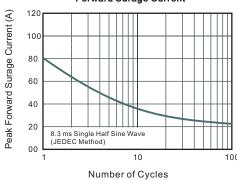


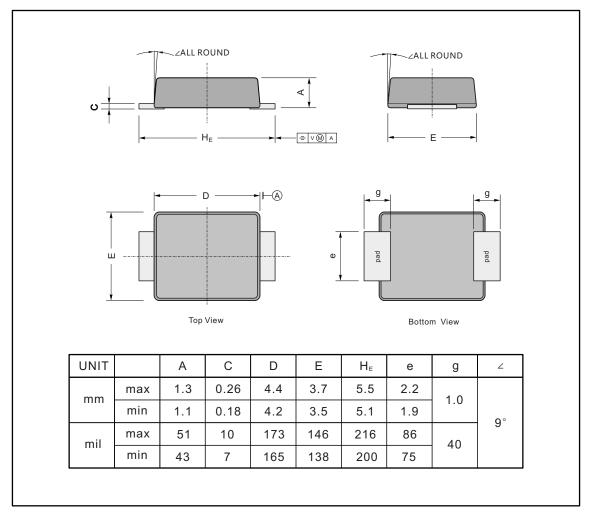
Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



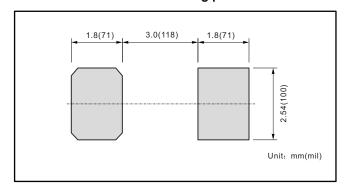
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF



The recommended mounting pad size



Marking

| Type number | Marking code | | | | |
|-------------|--------------|--|--|--|--|
| S3ABF | S3AB | | | | |
| S3BBF | S3BB | | | | |
| S3DBF | S3DB | | | | |
| S3GBF | S3GB | | | | |
| S3JBF | S3JB | | | | |
| S3KBF | S3KB | | | | |
| S3MBF | S3MB | | | | |

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