

## Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200 V

Forward Current - 3.0A

### Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

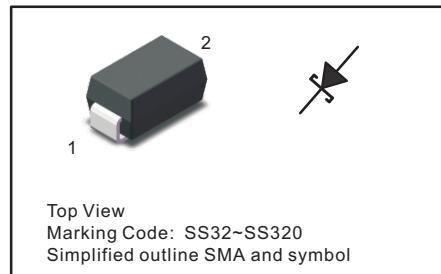
### MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 60mg / 0.0021oz

### Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

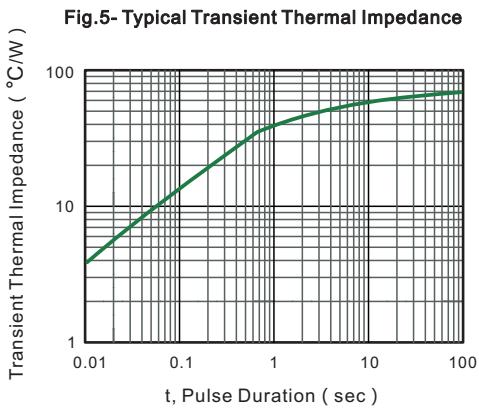
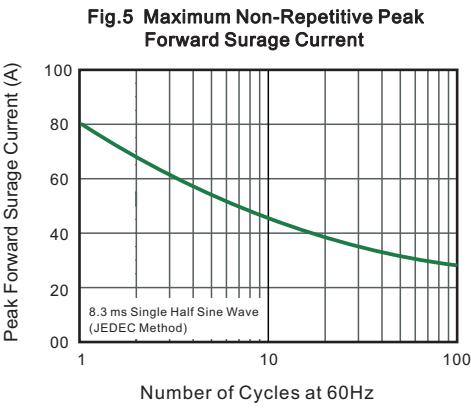
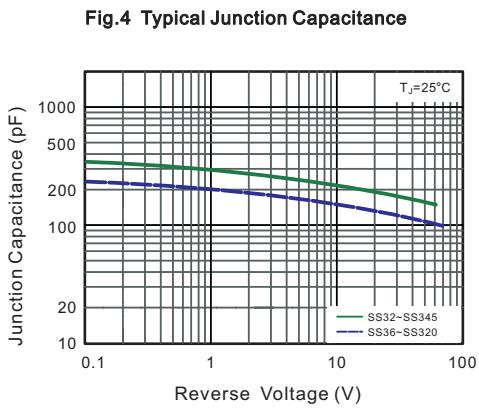
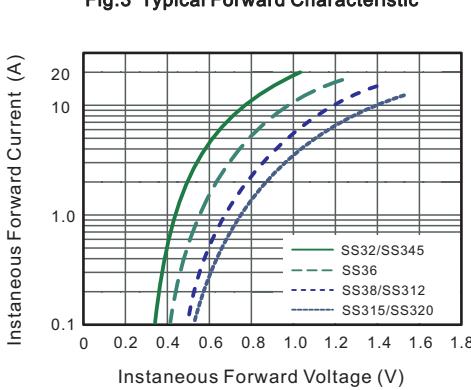
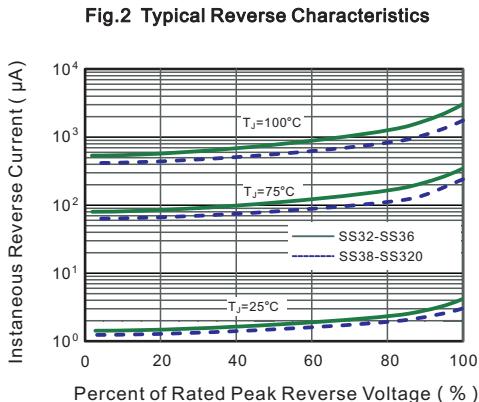
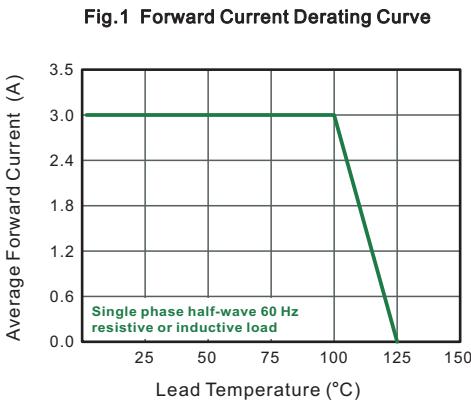
| PINNING |             |
|---------|-------------|
| PIN     | DESCRIPTION |
| 1       | Cathode     |
| 2       | Anode       |



| Parameter  | Symbols         | SS32G      | SS34G | SS34AG | SS36G    | SS38G | SS310G | SS312G | SS315G | SS320G | Units |  |  |  |  |  |
|--|-----------------|------------|-------|--------|----------|-------|--------|--------|--------|--------|-------|--|--|--|--|--|
| Maximum Repetitive Peak Reverse Voltage  | $V_{RRM}$       | 20         | 40    | 45     | 60       | 80    | 100    | 120    | 150    | 200    | V     |  |  |  |  |  |
| Maximum RMS voltage  | $V_{RMS}$       | 14         | 28    | 32     | 42       | 56    | 70     | 84     | 105    | 140    | V     |  |  |  |  |  |
| Maximum DC Blocking Voltage  | $V_{DC}$        | 20         | 40    | 45     | 60       | 80    | 100    | 120    | 150    | 200    | V     |  |  |  |  |  |
| Maximum Average Forward Rectified Current  | $I_{F(AV)}$     | 3.0        |       |        |          |       |        |        |        | A      |       |  |  |  |  |  |
| Peak Forward Surge Current, 8.3ms<br>Single Half Sine-wave Superimposed<br>on Rated Load (JEDEC method)      | $I_{FSM}$       | 80         |       |        |          |       |        |        |        | A      |       |  |  |  |  |  |
| Max Instantaneous Forward Voltage at 3 A   | $V_F$           | 0.55       |       | 0.70   |          | 0.85  |        | 0.95   |        | V      |       |  |  |  |  |  |
| Maximum DC Reverse Current $T_a = 25^\circ\text{C}$<br>at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$ | $I_R$           | 0.5<br>5   |       |        | 0.3<br>3 |       |        | mA     |        |        |       |  |  |  |  |  |
| Typical Junction Capacitance <sup>(1)</sup>  | $C_j$           | 250        |       |        | 180      |       |        | pF     |        |        |       |  |  |  |  |  |
| Typical Thermal Resistance <sup>(2)</sup>  | $R_{\theta JA}$ | 70         |       |        |          |       |        |        |        | °C/W   |       |  |  |  |  |  |
| Operating Junction Temperature Range   | $T_j$           | -55 ~ +125 |       |        |          |       |        |        |        | °C     |       |  |  |  |  |  |
| Storage Temperature Range  | $T_{stg}$       | -55 ~ +150 |       |        |          |       |        |        |        | °C     |       |  |  |  |  |  |

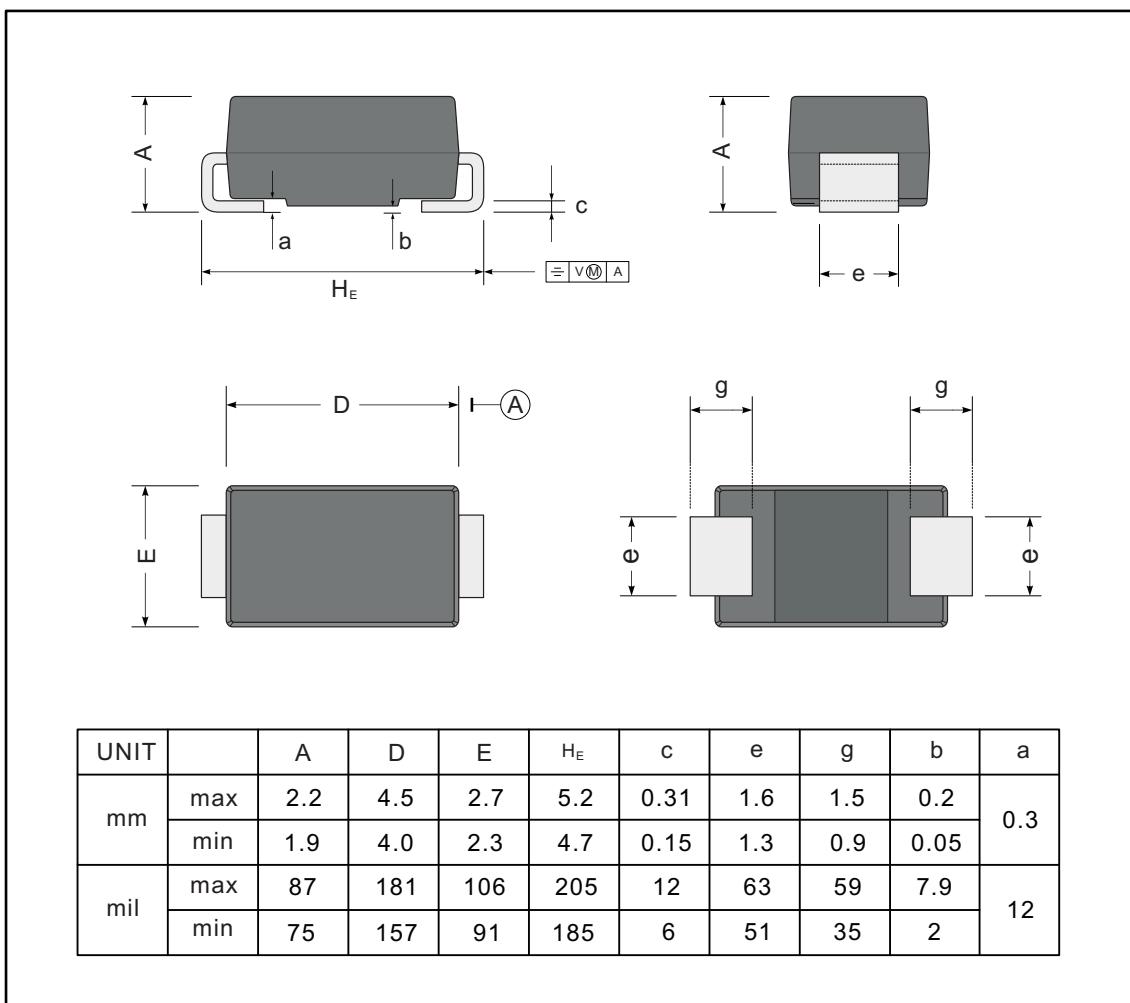
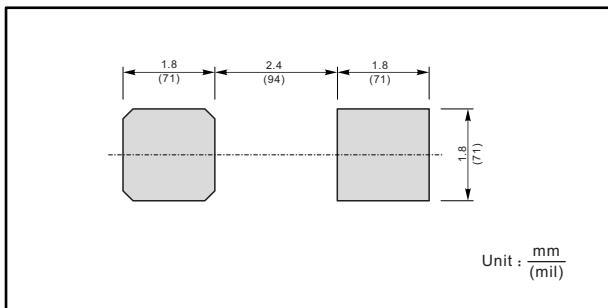
( 1 ) Measured at 1 MHz and applied reverse voltage of 4 V D.C

( 2 ) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

**SMA**

**The recommended mounting pad size**

**Marking**

| Type number | Marking code |
|-------------|--------------|
| SS32G       | SS32         |
| SS34G       | SS34         |
| SS34AG      | SS34A        |
| SS36G       | SS36         |
| SS38G       | SS38         |
| SS310G      | SS310        |
| SS312G      | SS312        |
| SS315G      | SS315        |
| SS320G      | SS320        |

单击下面可查看定价，库存，交付和生命周期等信息

[>>SHIKUES\(时科\)](#)