

## 2 Ampere Surface Mount Schottky Barrier Rectifier

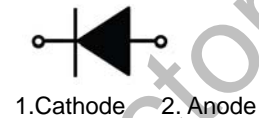


## SS22F-SS220F

## Features:

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- Fast switching for high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters

SMAF

**Absolute Maximum Ratings\*** ( $T_A=25^{\circ}\text{C}$  Unless otherwise noted)

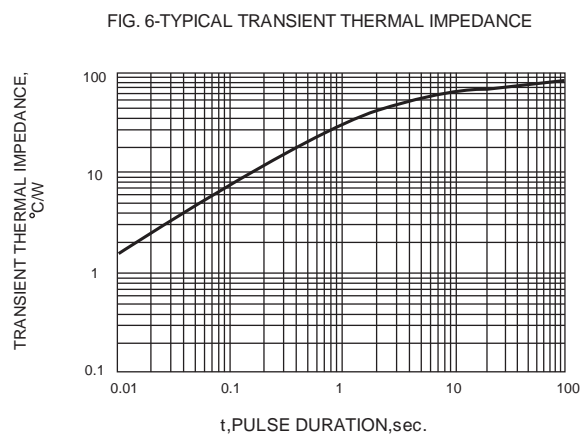
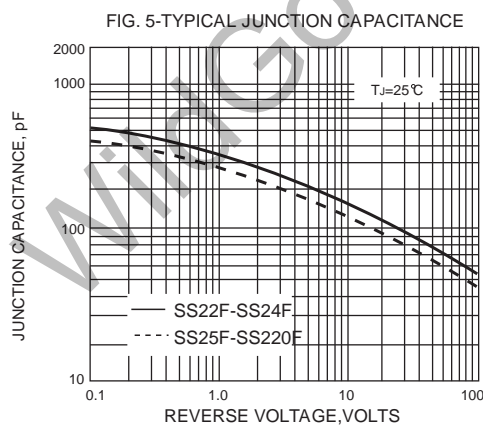
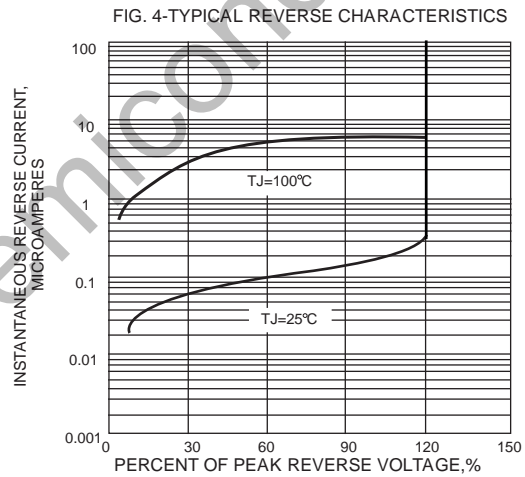
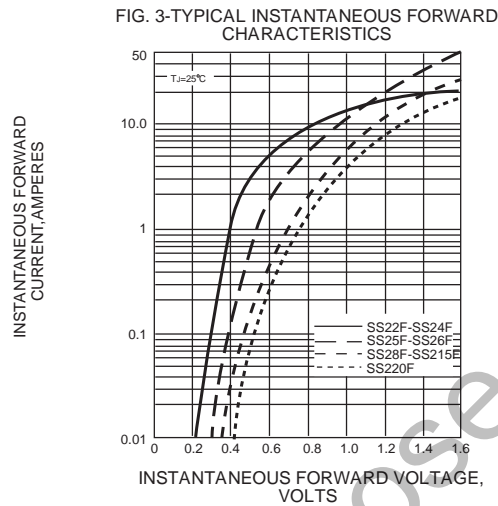
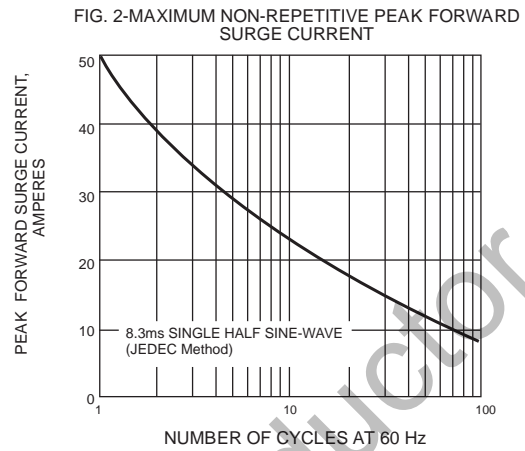
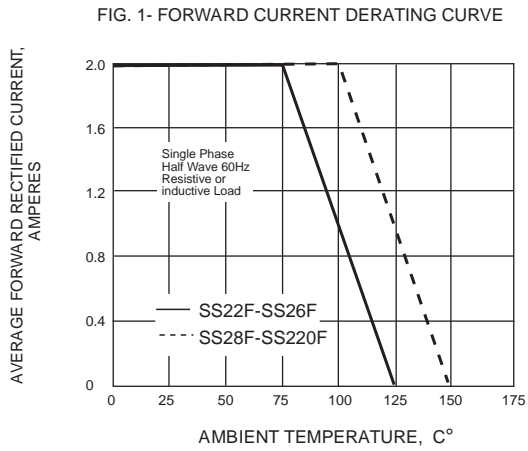
Ratings at  $25^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

| Parameter   | Symbols         | SS22F      | SS24F | SS26F    | SS28F      | SS210F | SS212F   | SS215F | SS220F | Units                |
|---|-----------------|------------|-------|----------|------------|--------|----------|--------|--------|----------------------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$       | 20         | 40    | 60       | 80         | 100    | 120      | 150    | 200    | V                    |
| Maximum RMS voltage   | $V_{RMS}$       | 14         | 28    | 42       | 56         | 70     | 84       | 105    | 140    | V                    |
| Maximum DC Blocking Voltage   | $V_{DC}$        | 20         | 40    | 60       | 80         | 100    | 120      | 150    | 200    | V                    |
| Maximum Average Forward Rectified Current   | $I_{F(AV)}$     | 2.0        |       |          |            |        |          |        |        | A                    |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)                   | $I_{FSM}$       | 50         |       |          |            |        |          |        |        | A                    |
| Max Instantaneous Forward Voltage at 2A   | $V_F$           | 0.55       | 0.70  | 0.85     |            |        | 0.95     |        | V      |                      |
| Maximum DC Reverse Current at Rated DC Reverse Voltage<br>$T_a = 25^{\circ}\text{C}$<br>$T_a = 100^{\circ}\text{C}$ | $I_R$           | 0.3<br>10  |       | 0.2<br>5 |            |        | 0.1<br>2 |        | mA     |                      |
| Typical Junction Capacitance <sup>(1)</sup>   | $C_j$           | 160        | 80    |          |            |        |          |        | pF     |                      |
| Typical Thermal Resistance <sup>(2)</sup>   | $R_{\theta JA}$ | 80         |       |          |            |        |          |        |        | $^{\circ}\text{C/W}$ |
| Operating Junction Temperature Range  | $T_j$           | -55 ~ +125 |       |          | -55 ~ +150 |        |          |        |        | $^{\circ}\text{C}$   |
| Storage Temperature Range   | $T_{stg}$       | -55 ~ +150 |       |          |            |        |          |        |        | $^{\circ}\text{C}$   |

(1) Measured at 1 MHz and applied reverse voltage of 4 VDC

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

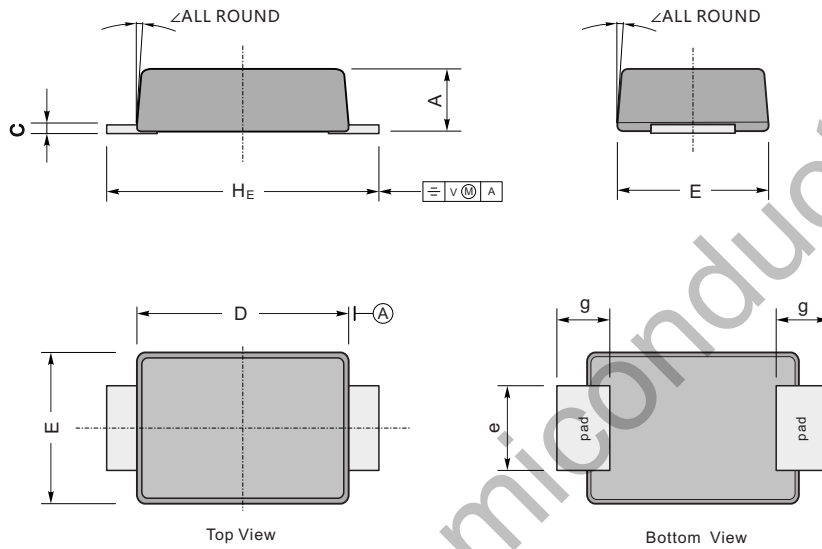
Typical Characteristics



**Package Dimension**

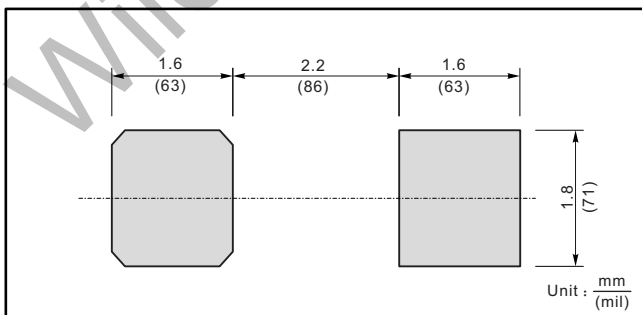
**SMAF**

Unit: 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            |    |

**The recommended mounting pad size**



**Marking**

| Type number | Marking code |
|-------------|--------------|
| SS22F       | SS22         |
| SS24F       | SS24         |
| SS26F       | SS26         |
| SS28F       | SS28         |
| SS210F      | SS210        |
| SS212F      | SS212        |
| SS215F      | SS215        |
| SS220F      | SS220        |

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