



# SSL34F-SSL36F

## Surface Mount Low VF Schottky Rectifiers

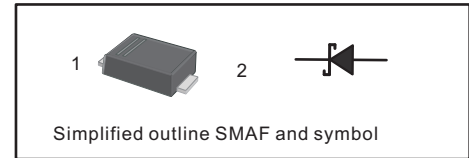
Reverse Voltage - 40V -60V  
Forward Current - 3.0A

### 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

### PINNING

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



### MECHANICAL DATA

- Case: SMAF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 27mg 0.00086oz

### 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 %

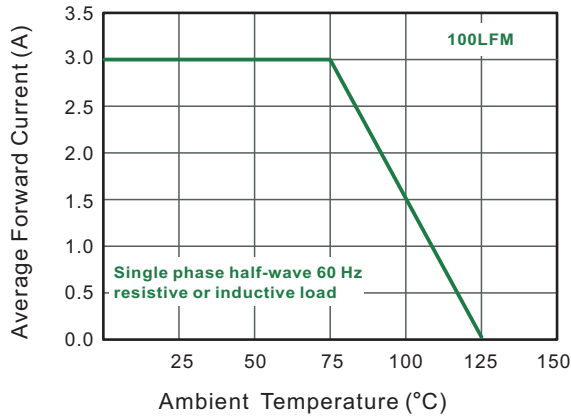
| Parameter   | Symbols         | SSL34F     | SSL345F | SSL36F | Units         |
|---|-----------------|------------|---------|--------|---------------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$       | 40         | 45      | 60     | V             |
| Maximum RMS voltage   | $V_{RMS}$       | 28         | 21.5    | 42     | V             |
| Maximum DC Blocking Voltage   | $V_{DC}$        | 40         | 45      | 60     | V             |
| Maximum Average Forward Rectified Current   | $I_{F(AV)}$     | 3.0        |         |        | A             |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | $I_{FSM}$       | 80         |         |        | A             |
| Max Instantaneous Forward Voltage at 3 A  | $V_F$           | 0.45       |         | 0.55   | V             |
| Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Reverse Voltage $T_a = 100^{\circ}C$   | $I_R$           | 0.3<br>5   |         |        | mA            |
| Typical Junction Capacitance <sup>1)</sup>  | $C_j$           | 450        |         |        | pF            |
| Typical Thermal Resistance <sup>2)</sup>  | $R_{\theta JA}$ | 40         |         |        | $^{\circ}C/W$ |
| Operating Junction Temperature Range  | $T_j$           | -55 ~ +125 |         |        | $^{\circ}C$   |
| Storage Temperature Range   | $T_{stg}$       | -55 ~ +150 |         |        | $^{\circ}C$   |

- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2) P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

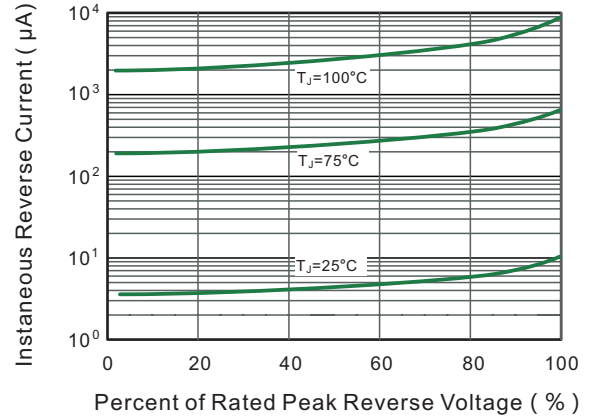


**Characteristic Curves** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

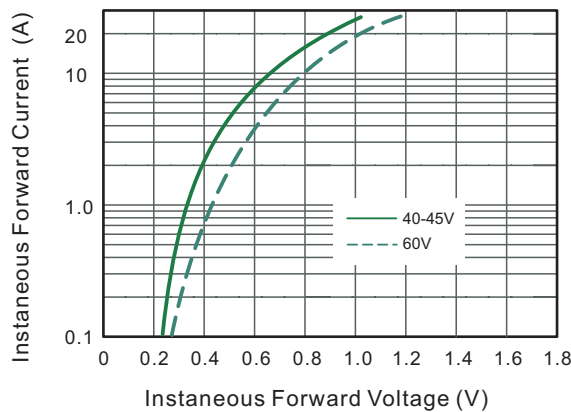
**Fig.1 Forward Current Derating Curve**



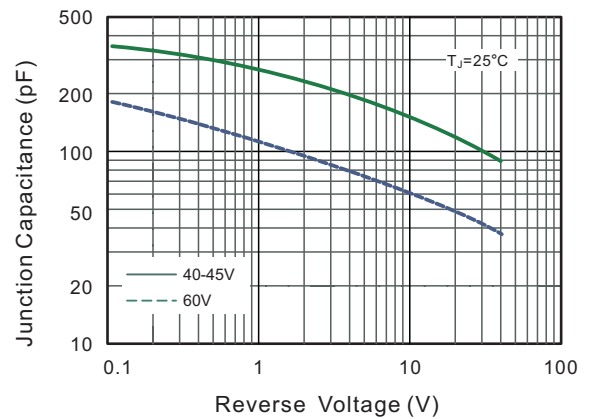
**Fig.2 Typical Reverse Characteristics**



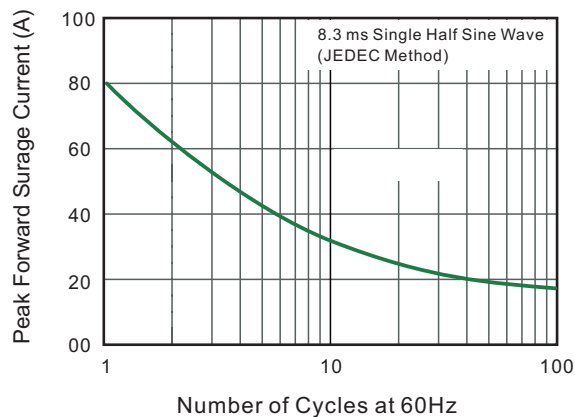
**Fig.3 Typical Forward Characteristic**



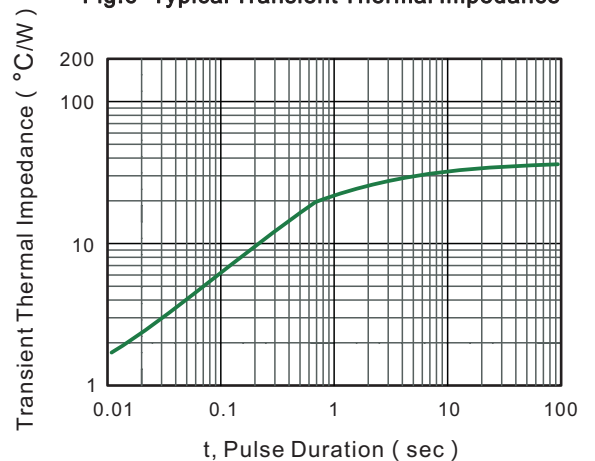
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.6- Typical Transient Thermal Impedance**

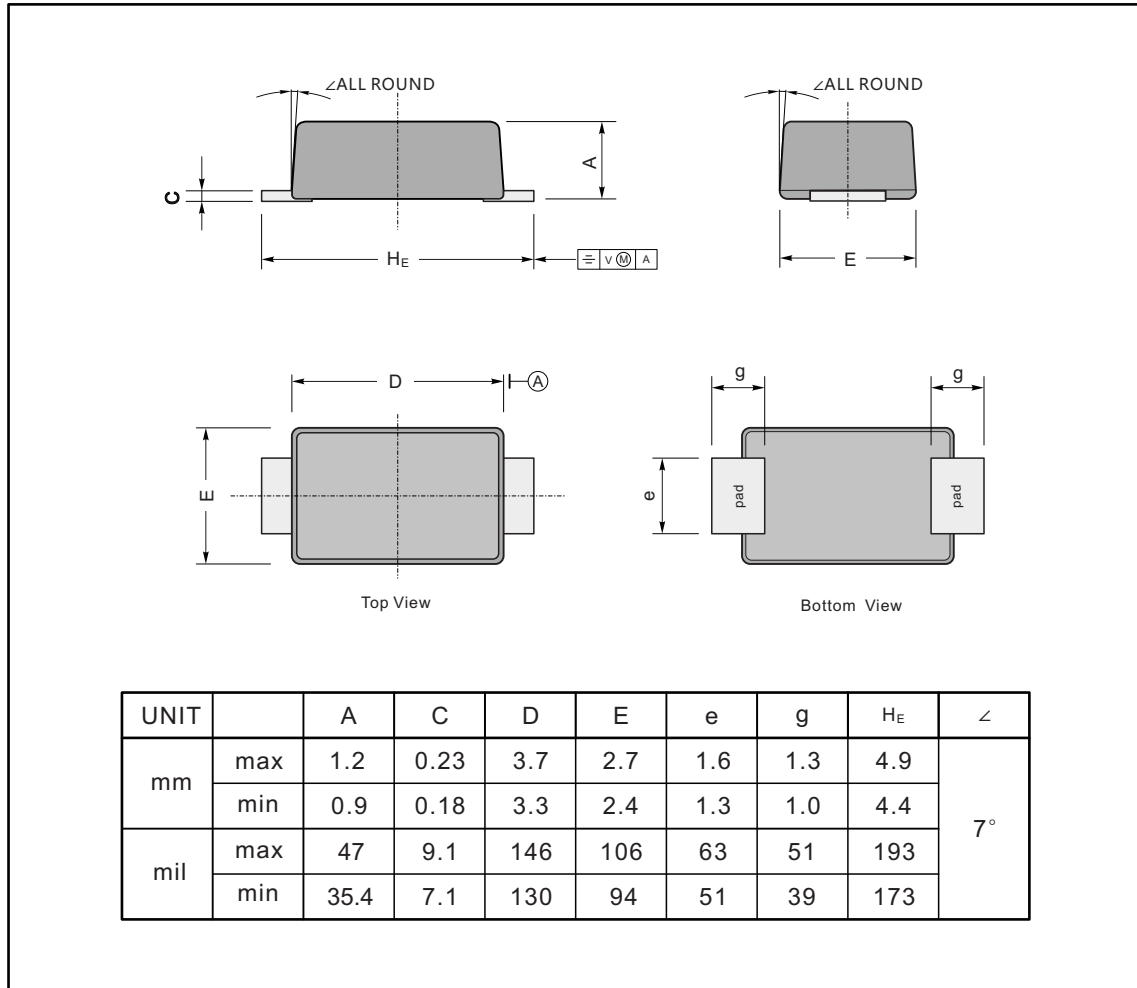




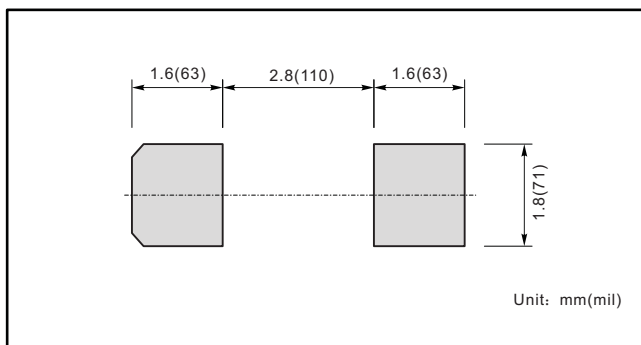
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SMAF



**The recommended mounting pad size**



**Marking**

| Type number | Marking code |
|-------------|--------------|
| SSL34F      | SSL34        |
| SSL345F     | SSL345       |
| SSL36F      | SSL36        |

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