



# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

## SSL34F

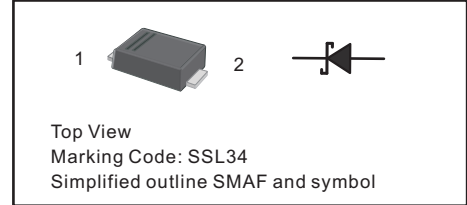
REVERSE VOLTAGE - 40 V  
FORWARD CURRENT - 3 A

### 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 / 0.00095oz

### 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	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	40	V
Maximum RMS voltage	VRMS	28	V
Maximum DC Blocking Voltage	VDC	40	V
Maximum Average Forward Rectified Current	IF(AV)	3.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	80	A
Max Instantaneous Forward Voltage at 3 A	VF	0.45	V
Maximum DC Reverse Current Ta = 25°C at Rated DC Reverse Voltage Ta = 100°C	IR	0.3 5	mA
Typical Junction Capacitance 1)	Cj	450	pF
Typical Thermal Resistance 2)	RθA	50	°C/W
Operating Junction Temperature Range	Tj	-55 ~ +125	°C
Storage Temperature Range	Tstg	-55 ~ +150	°C

### NOTES :

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.



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Fig.1 Forward Current Derating Curve

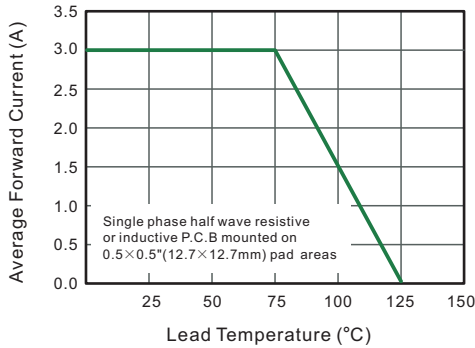


Fig.2 Typical Reverse Characteristics

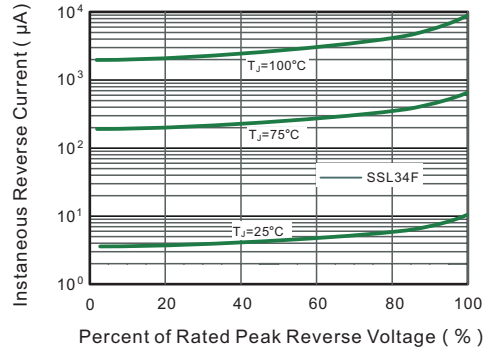


Fig.3 Typical Forward Characteristic

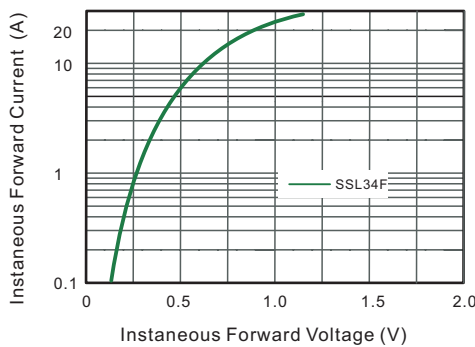


Fig.4 Typical Junction Capacitance

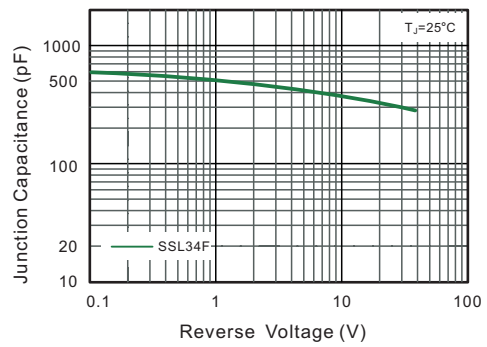


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

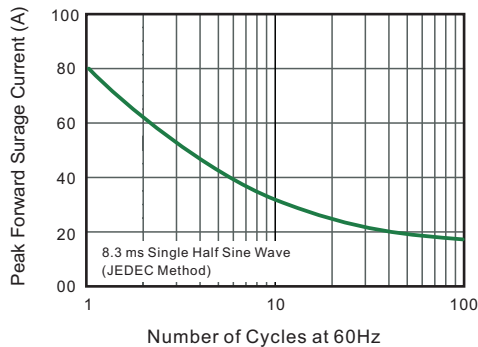
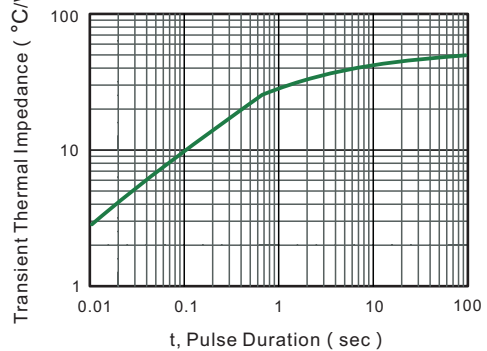


Fig.6- Typical Transient Thermal Impedance





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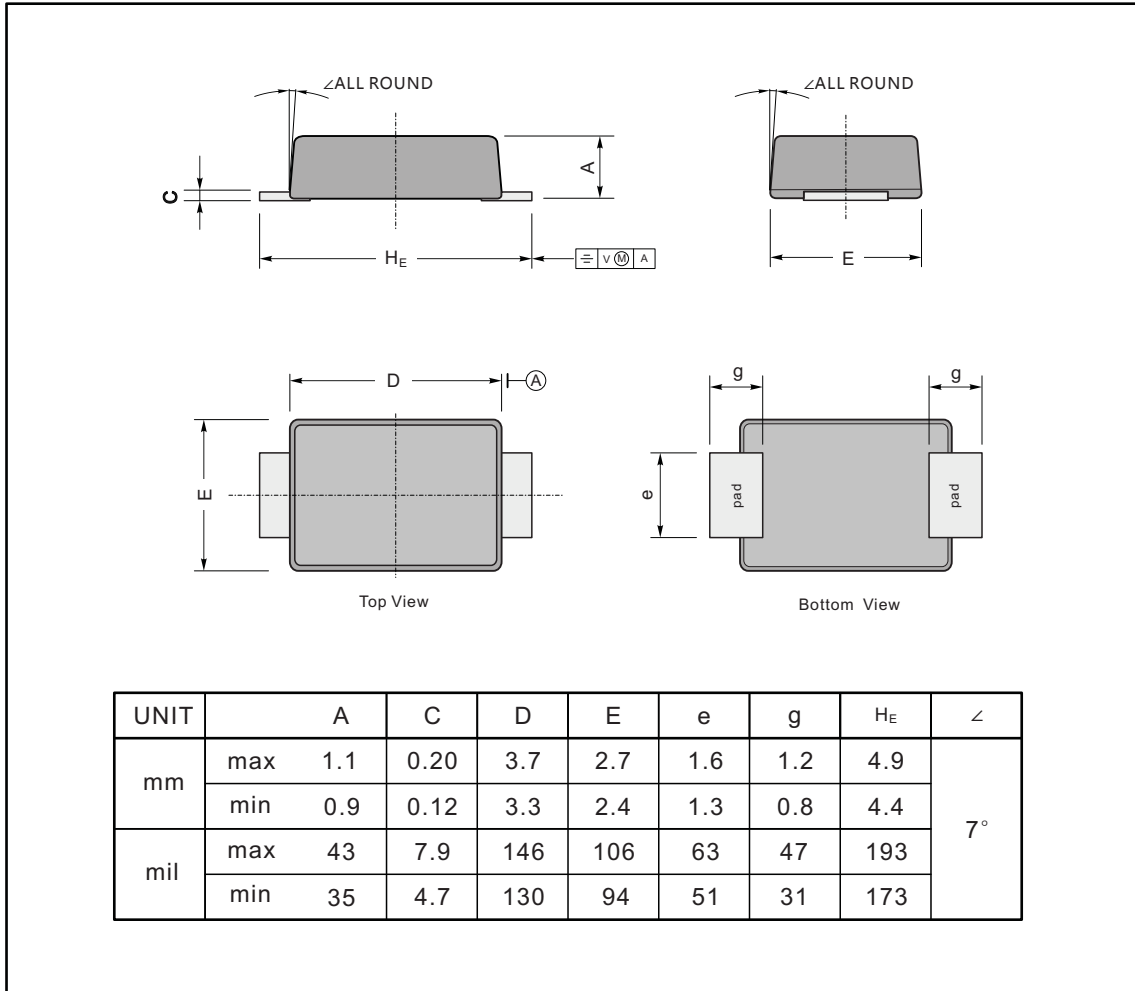
**SSL34F**

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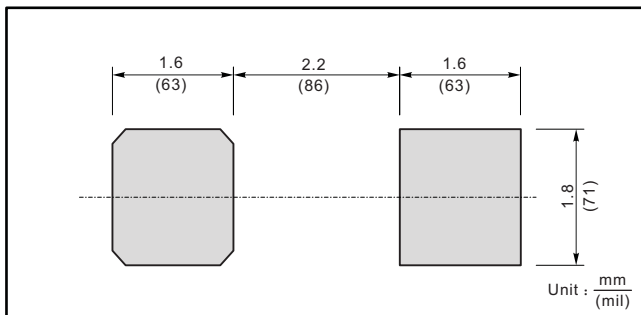
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

**SMAF**



### The recommended mounting pad size



### Marking

Type number	Marking code
SSL34F	SSL34