

## Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 to 60 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
- ♦Lead free in comply with EU RoHS 2011/65/EU directives

### MECHANICAL DATA

- ♦Case: SMAF
- ♦Terminals: Solderable per MIL-STD-750, Method 2026
- ♦Approx. Weight: 27mg /0.00095oz

### Pinning

1.Cathode	2.Anode
	
SMAF	

### Marking Code

SSL34F	YFW SSL34
SSL36F	YFW SSL36

#### Absolute Maximum Ratings and Electrical characteristics

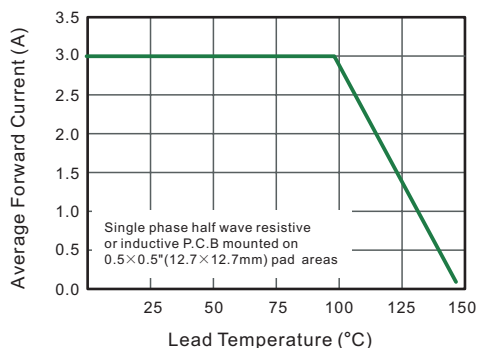
Ratings at 25 ° ambient temperature unless otherwise specified.Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SSL34F	SSL36F	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	60	V
Maximum RMS voltage	$V_{RMS}$	28	42	V
Maximum DC Blocking Voltage	$V_{DC}$	40	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	70	A
Maximum Instantaneous Forward Voltage at 3 A	$V_F$	0.45	0.5	V
Maximum Instantaneous Reverse Current $T_A = 25^{\circ}C$ at Rated DC Reverse Voltage $T_A = 100^{\circ}C$	$I_R$	0.3 5	0.5 5	mA
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	450	400	pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JA}$	50	60	°C/W
Operating Junction Temperature Range	$T_j$	-55 ~ +125		°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150		°C

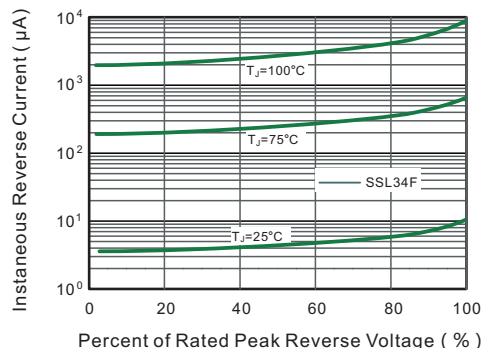
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

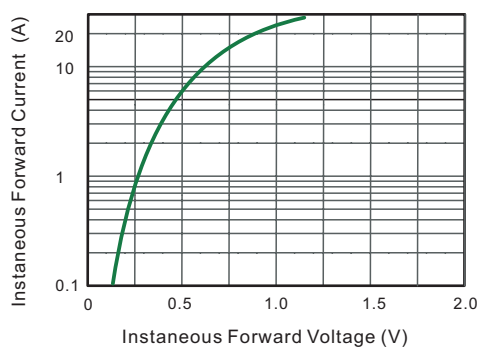
**Fig.1 Forward Current Derating Curve**



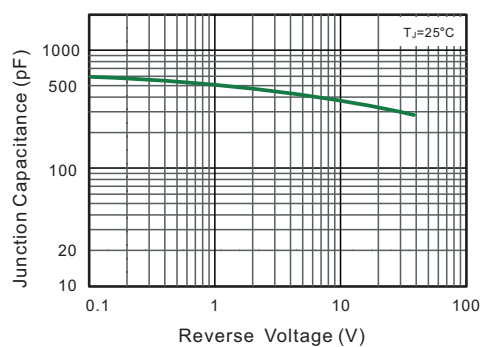
**Fig.2 Typical Reverse Characteristics**



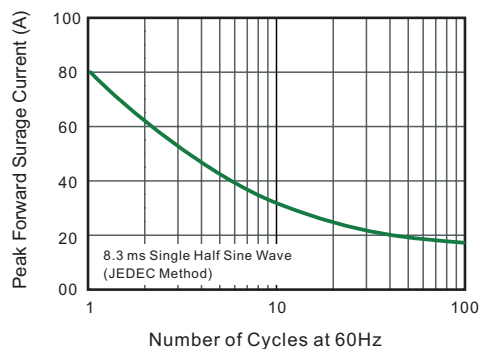
**Fig.3 Typical Forward Characteristic**



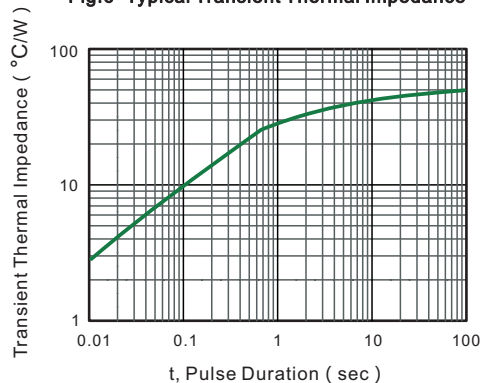
**Fig.4 Typical Junction Capacitance**



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



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



## Marking Diagram



## Ordering information

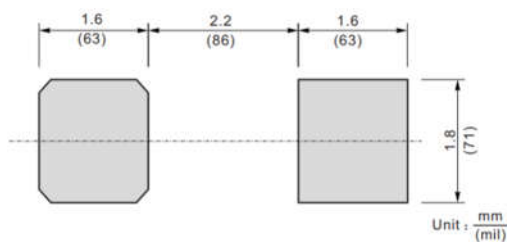
Package	Packing Description	Packing Quantity
SMAF	Tape/Reel, 7" reel	3000PCS/Reel 90000PCS/Carton

## Package Dimensions

### SMAF

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.1	35	43
C	0.12	0.20	4.7	7.9
D	3.3	3.7	130	146
E	2.4	2.7	94	106
e	1.3	1.6	51	63
g	0.8	1.2	31	47
HE	4.4	4.9	173	193
∠	7°			

### The recommended mounting pad size



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