

**Surface Mount Schottky Barrier Rectifier**
**Reverse Voltage - 40 to 60 V**
**Forward Current - 3 A**
**FEATURES**

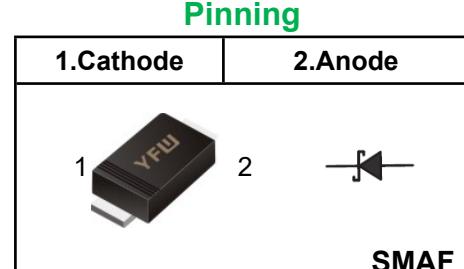
- ◆ Metal silicon junction, majority carrier conduction
- ◆ For surface mounted applications
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

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

**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 %



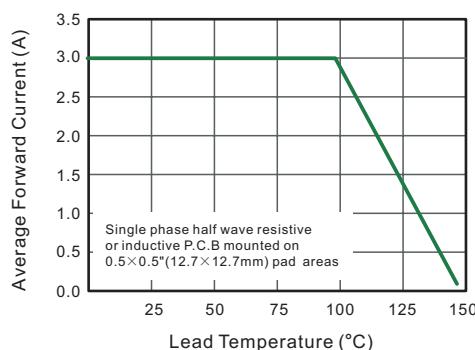
Marking Code	
SSL34F	YFW SSL34
SSL36F	YFW SSL36

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>	$R_{\thetaJA}$	50	60	°C/W	
Operating Junction Temperature Range	$T_J$	-55 ~ +125			°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150			°C

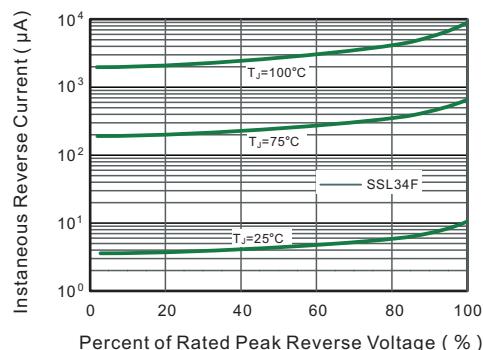
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

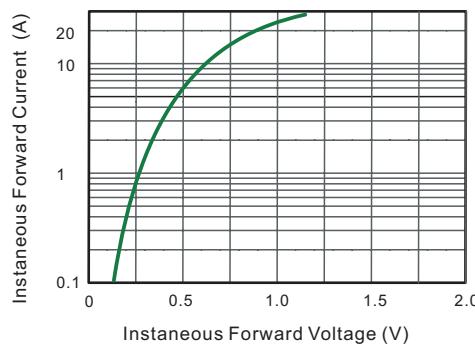
**Fig.1 Forward Current Derating Curve**



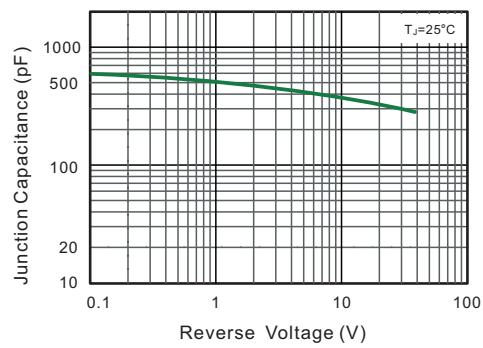
**Fig.2 Typical Reverse Characteristics**



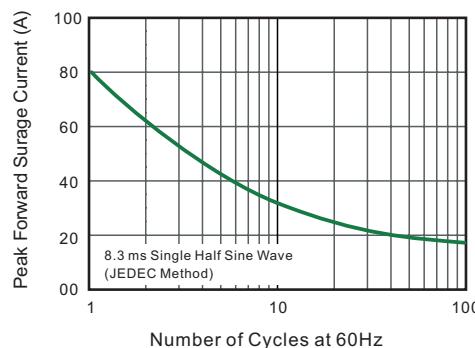
**Fig.3 Typical Forward Characteristic**



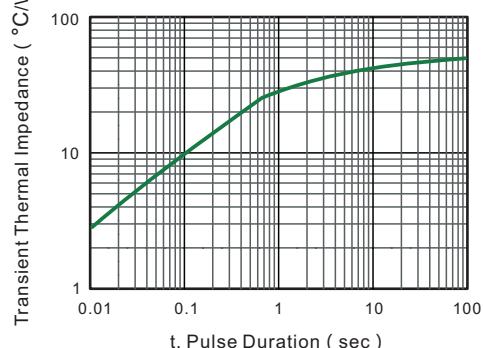
**Fig.4 Typical Junction Capacitance**



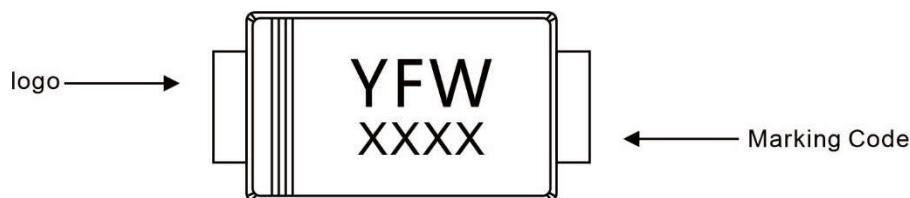
**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



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



**Marking Diagram**



**Ordering information**

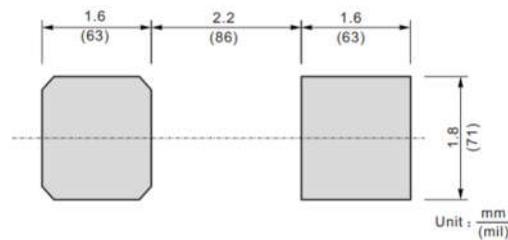
Package	Packing Description	Packing Quantity
SMAF	Tape/Reel, 7" reel	3000PCS/Reel 90000PCS/Carton

**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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