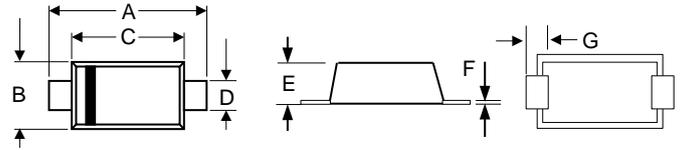


# SS12F THRU SS120F

## 1.0 Amp. Surface Mount Schottky Barrier Rectifiers

### Features

- \* Low power loss, high efficiency
- \* Ideal for automated placement
- \* Guardring for overvoltage protection
- \* High surge current capability
- \* High Temp Soldering: 260°C for 10seconds at Terminals



RoHS  
COMPLIANT



SMAF				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.173	0.193	4.40	4.90
B	0.094	0.106	2.40	2.70
C	0.130	0.146	3.30	3.70
D	0.051	0.063	1.30	1.60
E	0.035	0.043	0.90	1.10
F	0.005	0.008	0.12	0.20
G	0.031	0.047	0.80	1.20

### Mechanical Data

- \* Case: SMAF Molded plastic
- \* Terminals: Solderable per MIL-STD-750, Method 2026
- \* Polarity: Indicated by cathode band

### Maximum Ratings and Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Type Number	Symbols	SS12F	SS14F	SS16F	SS18F	SS110F	SS112F	SS115F	SS120F	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	28	42	56	70	84	105	140	V
Maximum D.C Blocking Voltage	V <sub>DC</sub>	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	1.0								A
Peak Forward Surge Current, 8.3ms single half sine-wave	I <sub>FSM</sub>	40				30				A
Maximum Instantaneous Forward Voltage at 3.0A	V <sub>F</sub>	0.55	0.70		0.85		0.90		V	
Maximum D.C Reverse Current @ T <sub>J</sub> =25°C at Rated D.C Blocking Voltage @ T <sub>J</sub> =125°C	I <sub>R</sub>	0.3 5				0.2 5		0.1 2		mA
Typical Junction Capacitance(Note1)	C <sub>J</sub>	110	80							pF
Typical thermal resistance (Note2)	R <sub>θJA</sub>	95								°C/W
Operating and Storage Temperature Range	T <sub>J</sub> / T <sub>STG</sub>	-55 to +150								°C

Note 1: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

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

### Ratings and Characteristic Curves

Fig.1 Forward Current Derating Curve

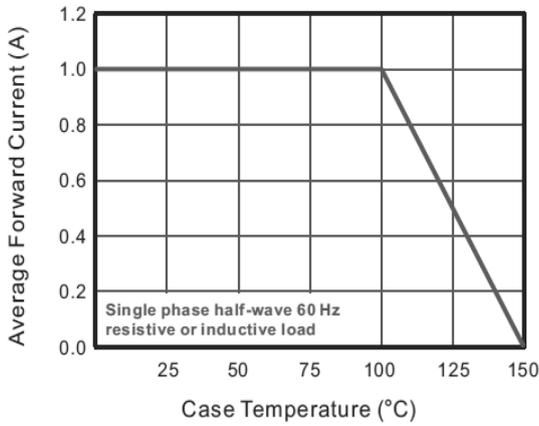


Fig.2 Typical Reverse Characteristics

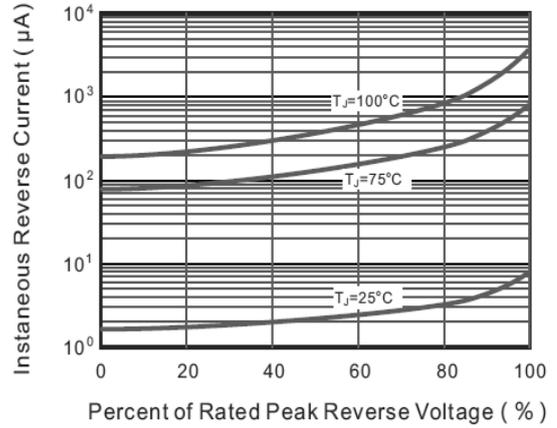


Fig.3 Typical Forward Characteristic

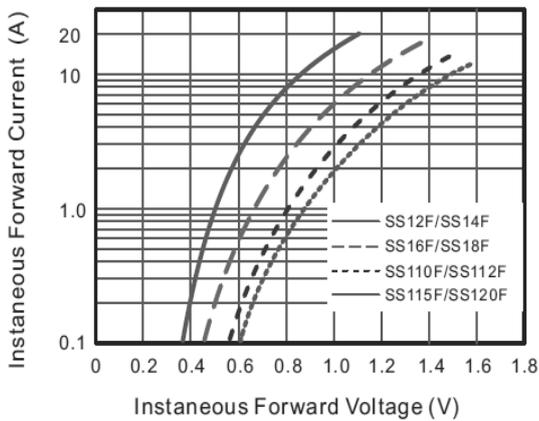


Fig.4 Typical Junction Capacitance

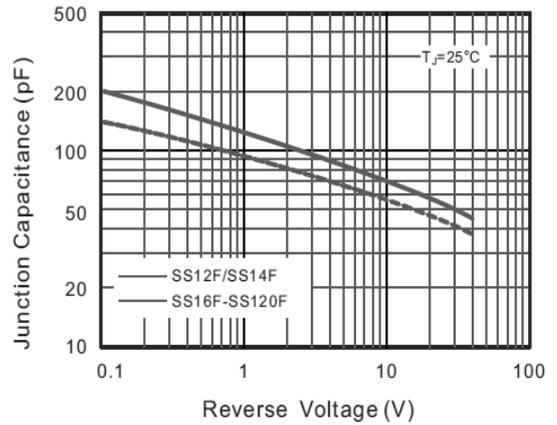


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

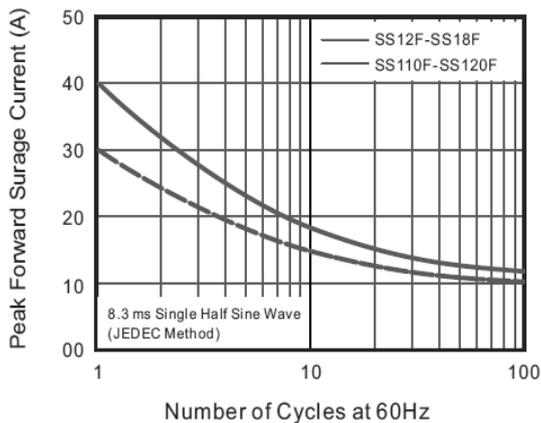
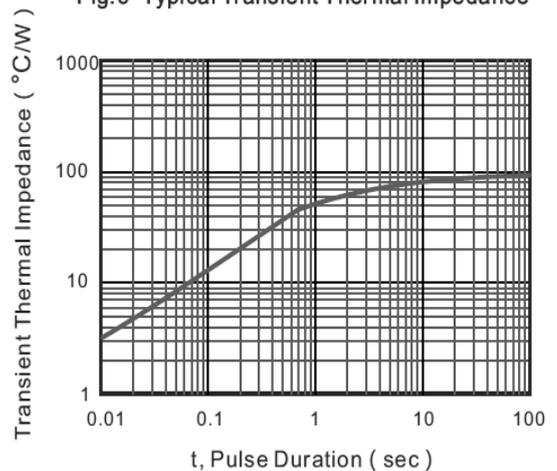


Fig.6 Typical Transient Thermal Impedance





# SS12F THRU SS120F

## 1.0 Amp. Surface Mount Schottky Barrier Rectifiers

### Ordering Information

Part No.	Package	Packing Code	Packing
SS12AF THRU SS120AF	SMAF	R30	3000pcs/Reel

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