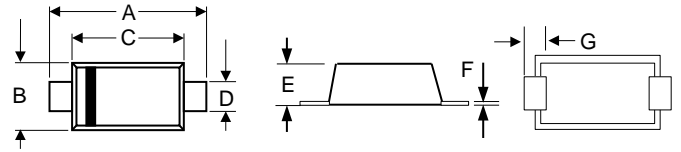


SS12F THRU SS120F

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_A=25°C unless otherwise noted)

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

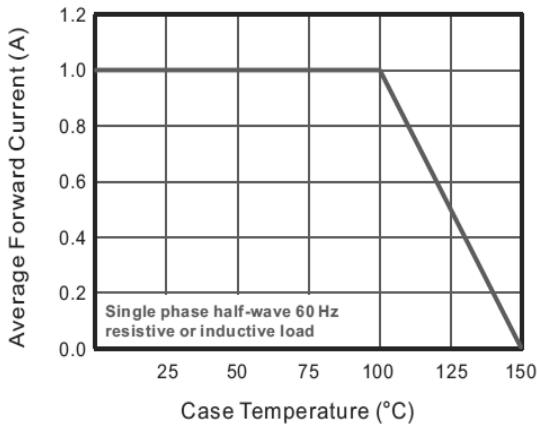


Fig.2 Typical Reverse Characteristics

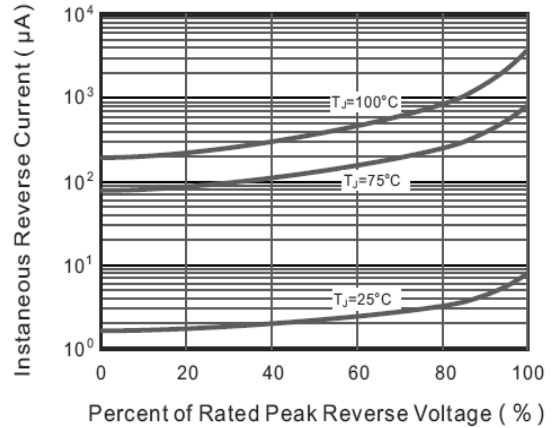


Fig.3 Typical Forward Characteristic

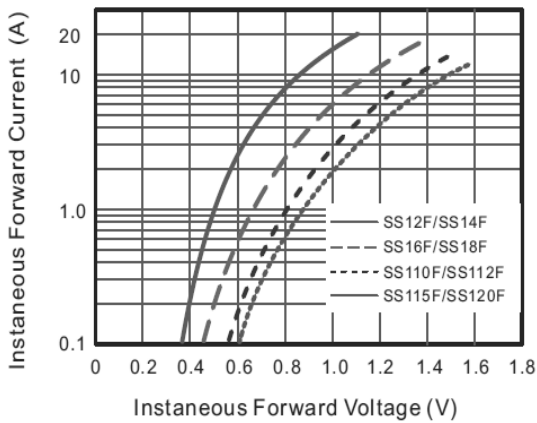


Fig.4 Typical Junction Capacitance

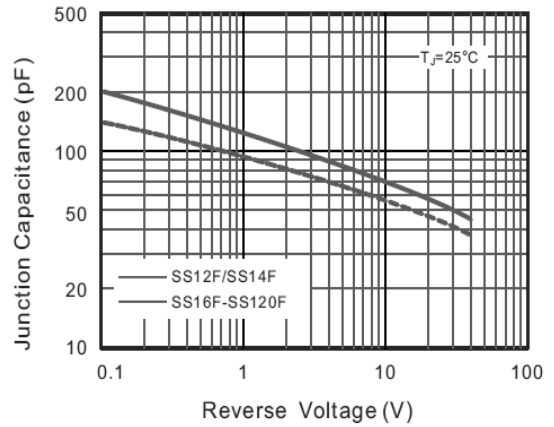


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

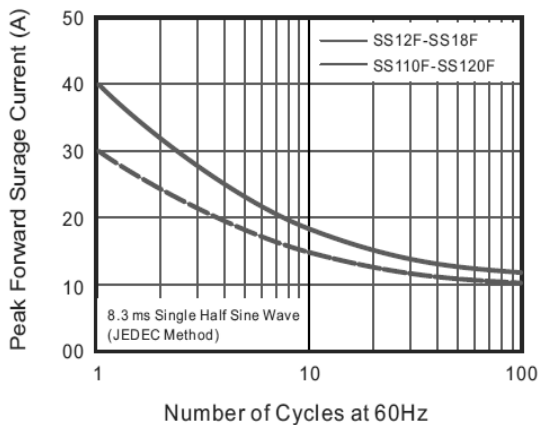
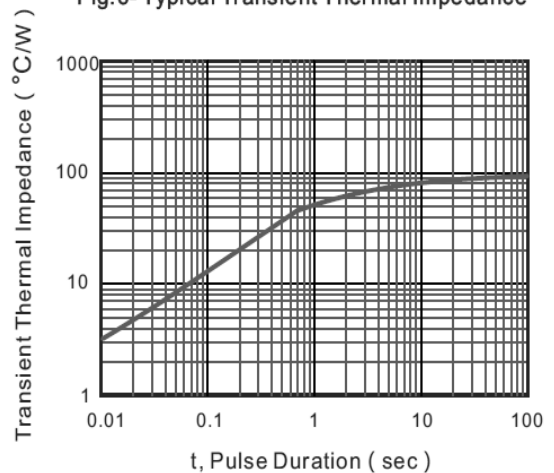


Fig.6 Typical Transient Thermal Impedance





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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