

Features

- Average Forward Current: $I_{F(AV)}=3A$
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS32AF~SS320AF	SMAF	SS3x	3000

x: From2F-20F



SMAF



Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbols	SS32F	SS34F	SS36F	SS38F	SS310F	SS312F	SS315F	SS320F	Units
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 DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	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
Max Instantaneous Forward Voltage at 3 A	V _F	0.55		0.70		0.85		0.95		V
Maximum DC Reverse Currentat T _a = 25°C Rated DC Reverse Voltage T _a = 100°C	I _R	0.5 10		0.3 5						mA
Typical Junction Capacitance 1)	C _j	250		160						pF
Typical Thermal Resistance2)	R _{θJA}	40								°C/W
Operating Junction Temperature Range	T _j	-55 ~ +125								°C
Storage Temperature Range	T _{stg}	-55 ~ +150								°C

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

Typical Characteristics

Fig.1 Forward Current Derating Curve

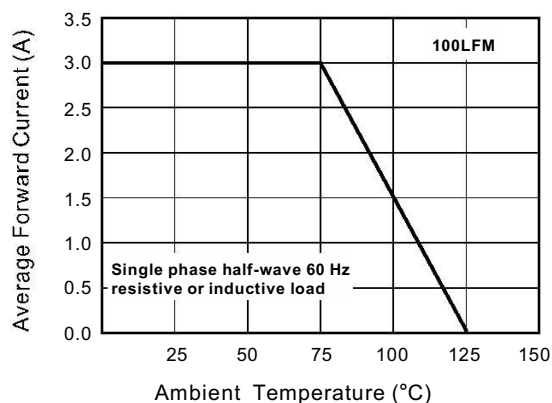


Fig.2 Typical Reverse Characteristics

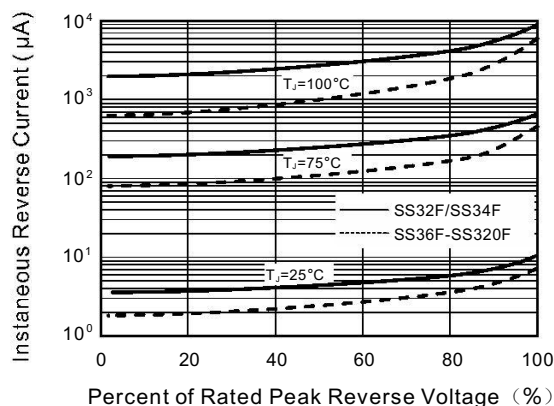


Fig.3 Typical Forward Characteristic

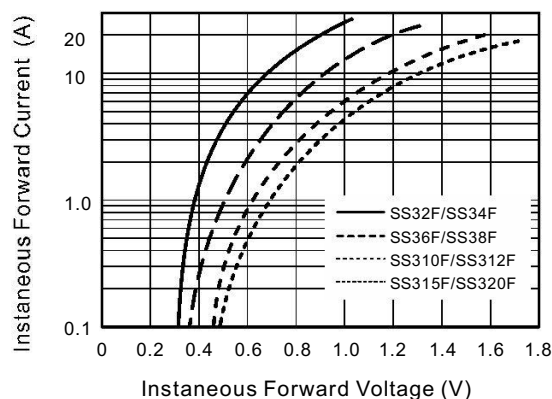


Fig.4 Typical Junction Capacitance

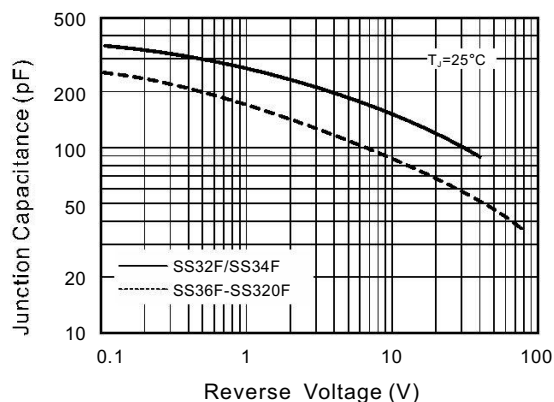


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

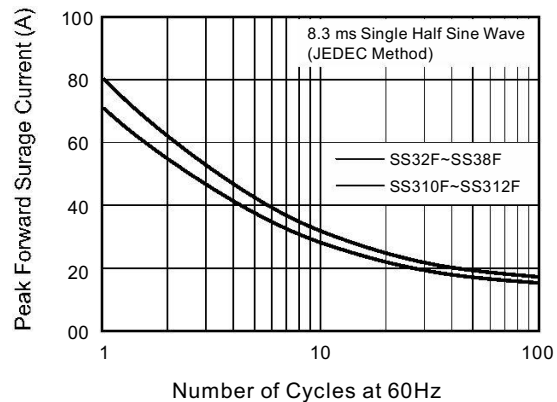
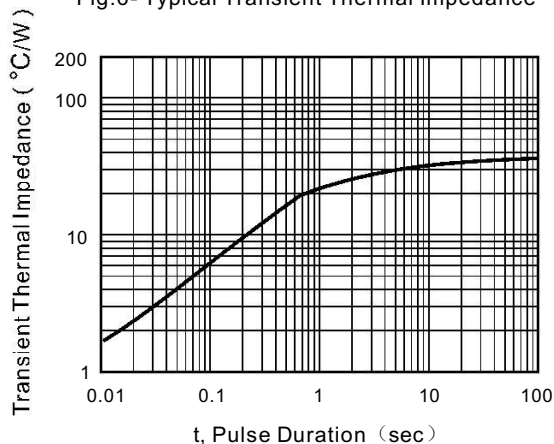
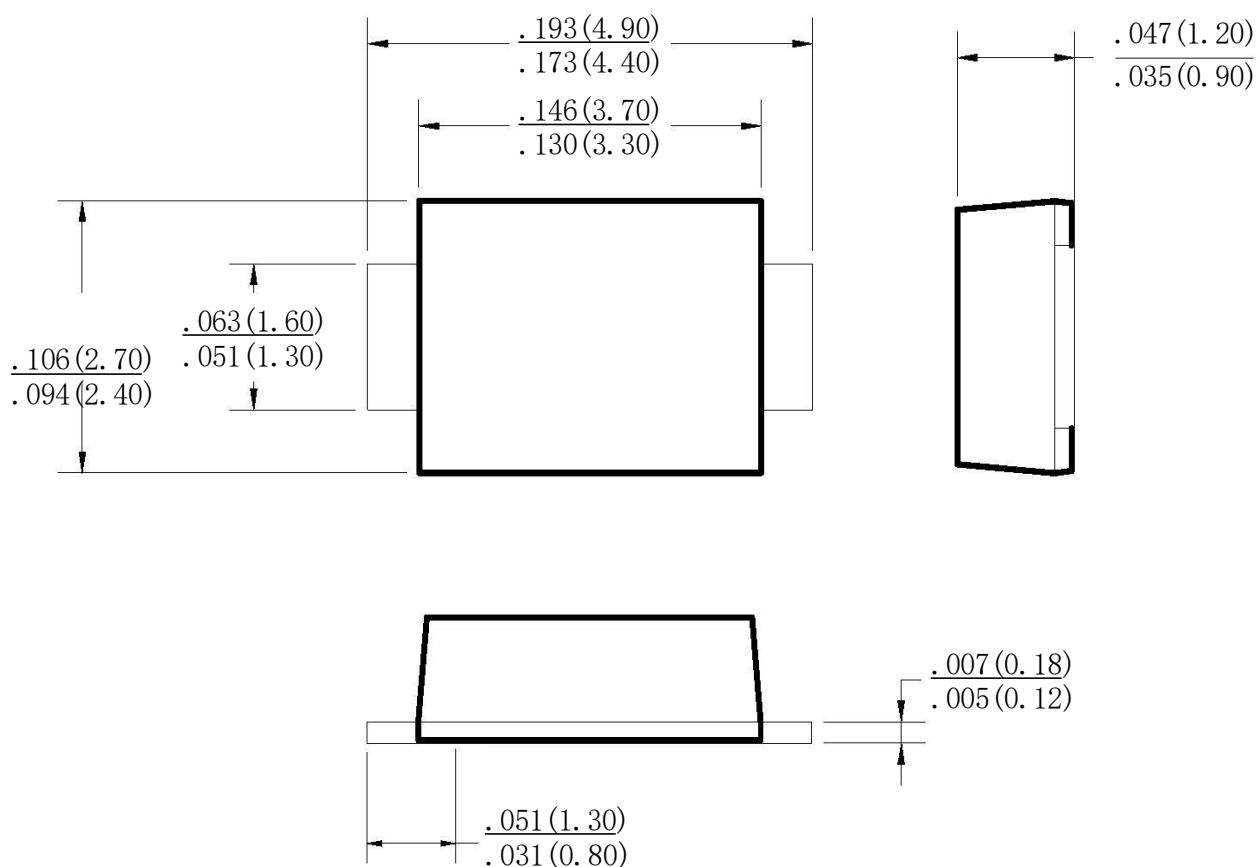


Fig.6 Typical Transient Thermal Impedance



Package Outline Dimensions

SMAF



Dimensions in inches and (millimeters)

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