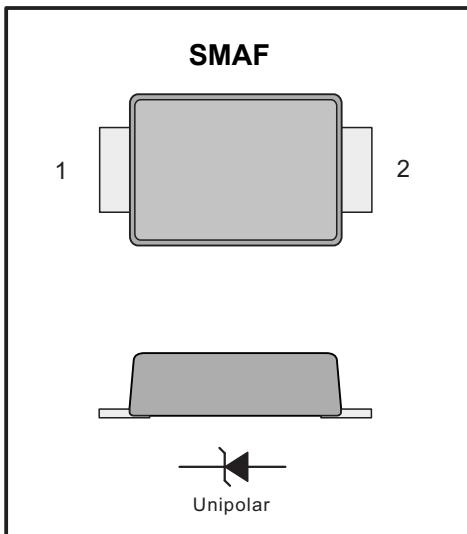


PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

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

Parameter	Symbols	SS22F	SS24F	SS26F	SS28F	SS210F	SS212F	SS215F	SS220F	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)}	2.0							A			
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							A			
Max Instantaneous Forward Voltage at 2A	V _F	0.55		0.70		0.85		0.95		V		
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a = 100°C	I _R	0.5 5		0.3 3						mA		
Typical Junction Capacitance ⁽¹⁾	C _j	160		80						pF		
Typical Thermal Resistance ⁽²⁾	R _{θJA}	80							°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.

Typical Characteristics

Fig.1 Forward Current Derating Curve

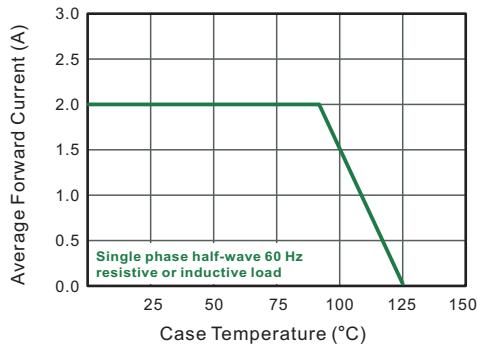


Fig.2 Typical Reverse Characteristics

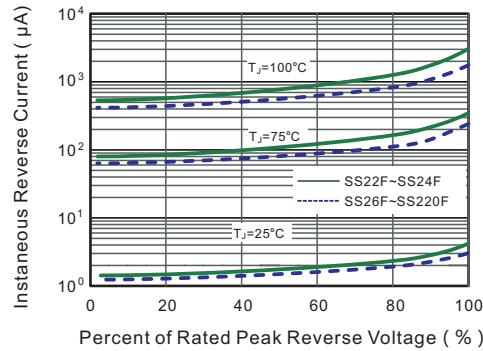


Fig.3 Typical Forward Characteristic

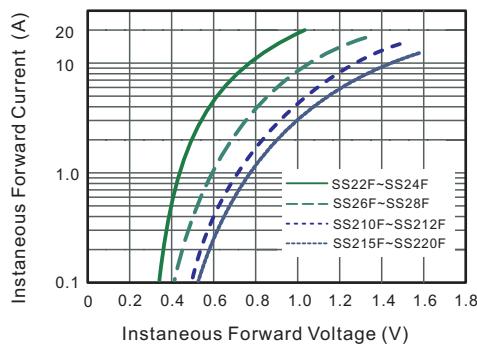


Fig.4 Typical Junction Capacitance

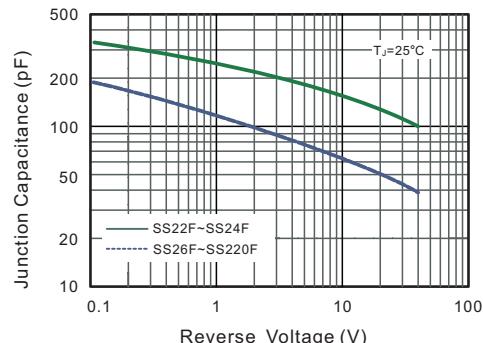


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

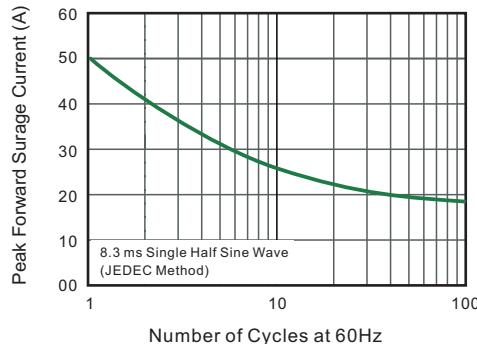
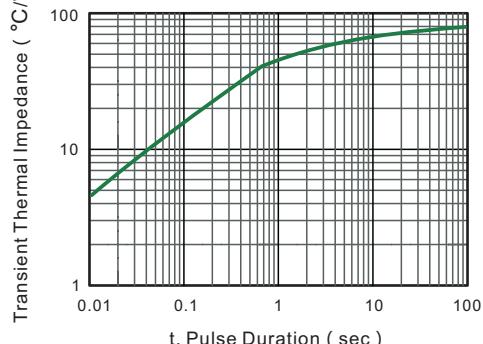


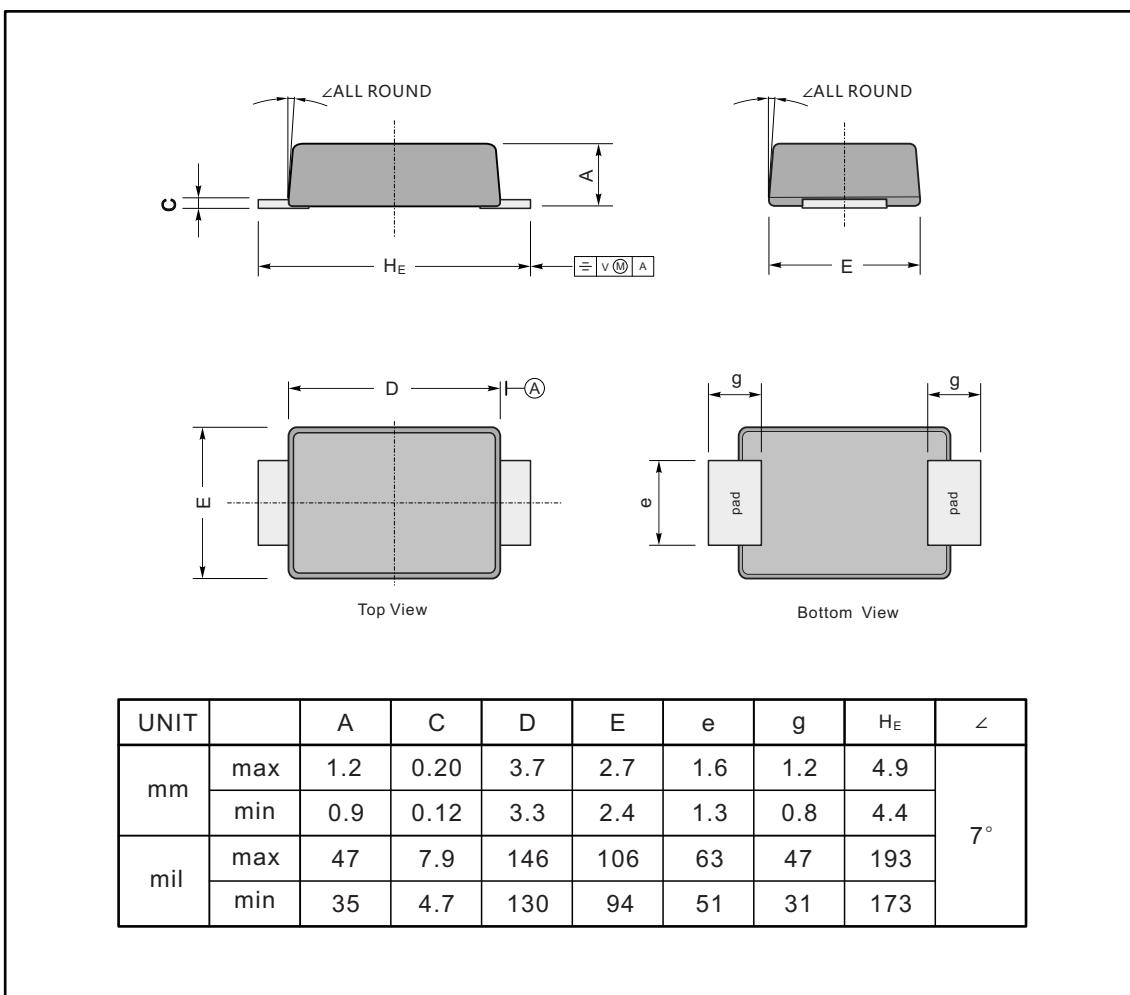
Fig.6- Typical Transient Thermal Impedance



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



The recommended mounting pad size

