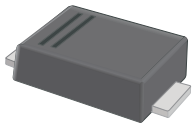
Schottky Barrier Rectifier

SS22F ~ SS220F

■ 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

SMAF



Top View
Simplified outline SMAF and symbol

PIN DESCRIPTION

PIN	DESCRIPTION
1	Cathode
2	Anode

■ Absolute Maximum Ratings Ta = 25℃ unless otherwise specified

Parameter	Symbol	SS 22F	SS 24F	SS 26F	SS 28F	SS 210F	SS 212F	SS 215F	SS 220F	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V
Surge Peak Reverse Voltage	V_{RSM}	14	28	42	56	70	84	105	140	
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	
Instantaneous Forward Voltage at 2A	V_F	0.55		0.7		0.85		0.95		
Averaged Forward Current	I_O	2								A
Peak forward surge current	I_{FSM}	50				40				
Maximum DC Reverse Current T_A=25℃	I_R	0.5				0.3				mA
at rated DC blocking voltage T_A=100℃		5				3				
Typical Junction Capacitance *1	C_j	160		80						pF
Typical thermal resistance *2	R_{thJA}	80								℃/W
Junction Temperature	T_j	150								℃
Storage Temperature	T_{stg}	-55 to 150								

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

* 2 P.C.B. mounted with 2″ × 2″ (5×5 cm) copper pad areas.

■ Marking

NO.	SS22F	SS24F	SS26F	SS28F	SS210F	SS212F	SS215F	SS220F
Marking	SS22	SS24	SS26	SS28	SS210	SS212	SS215	SS220

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■ Typical Characterisitics

Fig.1 Forward Current Derating Curve

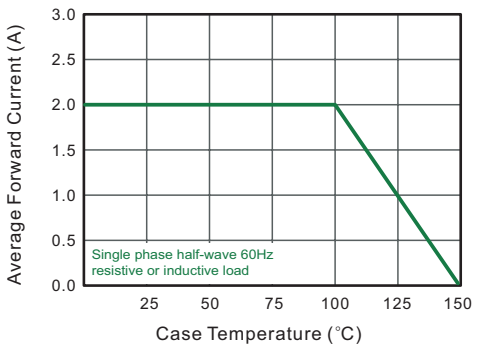


Fig.2 Typical Reverse Characteristics

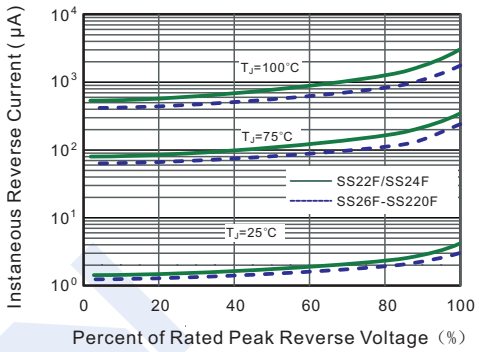


Fig.3 Typical Forward Characteristic

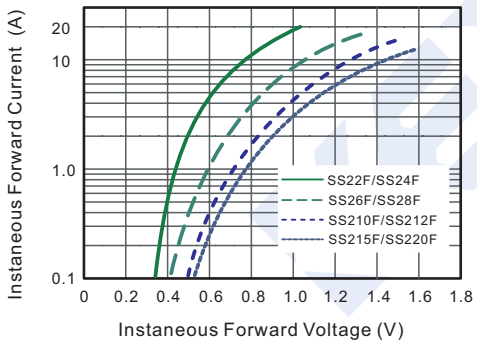


Fig.4 Typical Junction Capacitance

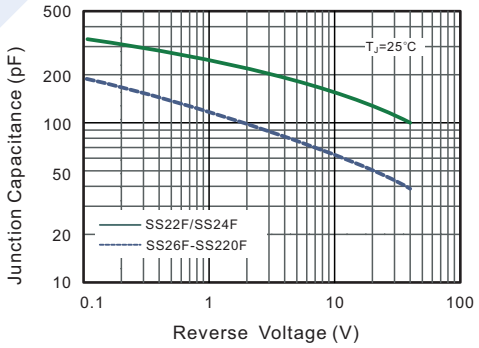


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

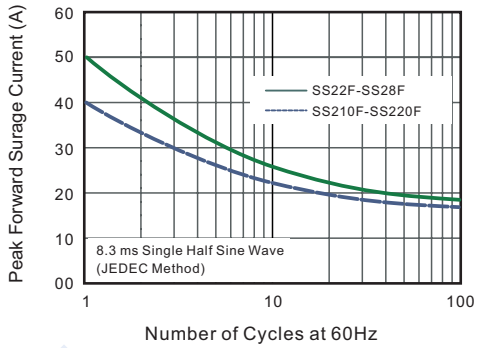
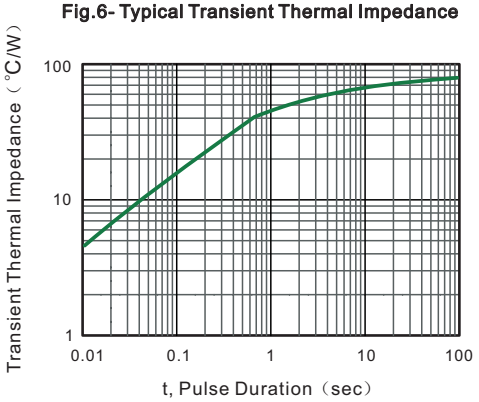


Fig.6- Typical Transient Thermal Impedance



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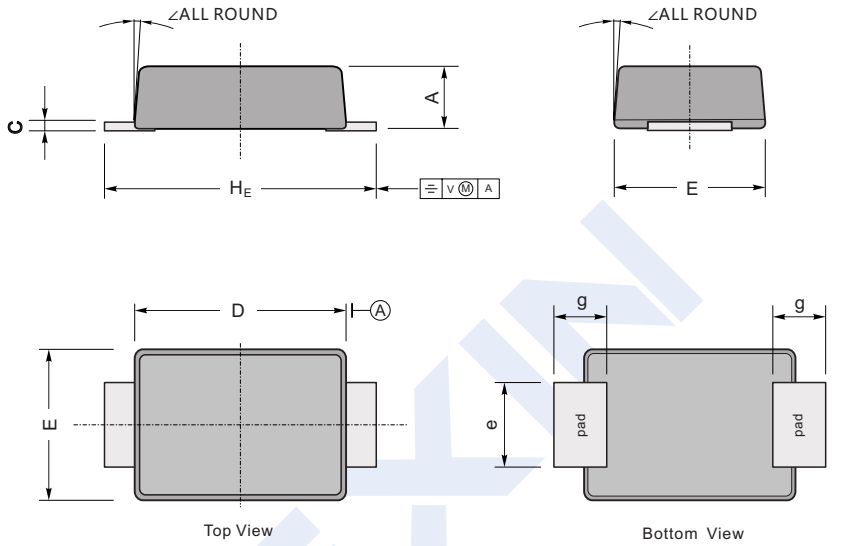
■ Package Outline Dimensions

Plastic surface mounted package; 2 leads SMAF



UNIT		A	C	D	E	e	g	H_E	∠
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9	7°
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	
mil	max	47	7.9	146	106	63	47	193	
	min	35	4.7	130	94	51	31	173	

■ The recommended mounting pad size