

SS22GF~SS220GF

ROHS

Surface Mount Schottky Barrier Rectifier

Features

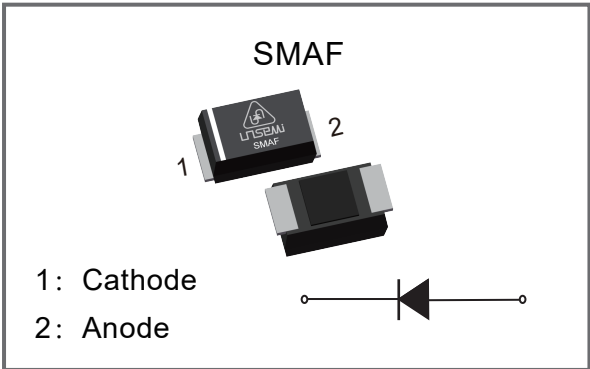
- ◆ Metal silicon junction, majority carrier conduction
- ◆ For surface mounted applications
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- ◆ Case: SMAF
- ◆ Quantity Per Reel : 3,000pcs
- ◆ Approx. Weight : 27mg/0.00095oz
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026



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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 current derate by 20%.

Parameter		Symbol	SS 22GF	SS 24GF	SS 26GF	SS 28GF	SS 210GF	SS 212GF	SS 215GF	SS 220GF	Units
Maximum Repetitive Peak Reverse Voltage		VRRM	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage		VRMS	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage		VDC	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current		IF(AV)	2.0								A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		IFSM	50								A
Max Instantaneous Forward Voltage at 2A		VF	0.55		0.70		0.85		0.95		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	Ta=25℃	IR	0.5			0.3					mA
	Ta=100℃	IR	5.0			3.0					
Typical Junction Capacitance ⁽¹⁾		Cj	160		80						pF
Typical Thermal Resistance ⁽²⁾		RθJA	80								℃/W
Operating Junction Temperature Range		TJ	-55 ~ +150								℃
Storage Temperature Range		Tstg	-55 ~ +150								℃

Note:(1) Measured at 1 MHz and applied reverse voltage of 4VDC.

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

Electrical Characteristics Curves

Fig.1 Forward Current Derating Curve

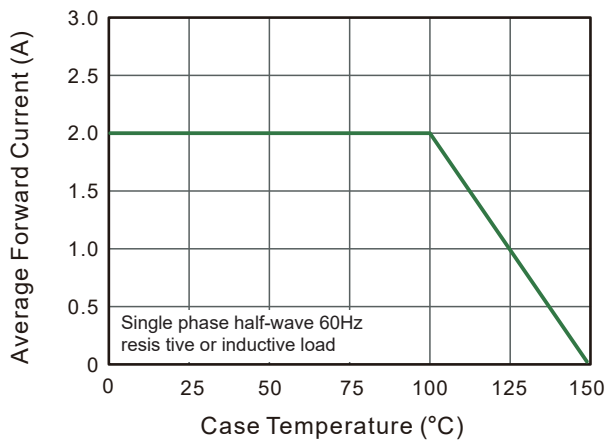


Fig. 2 Typical Reverse Characteristics

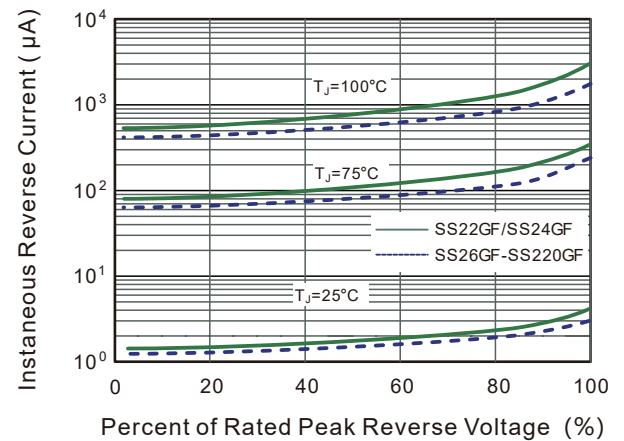


Fig.3 Typical Forward Characteristic

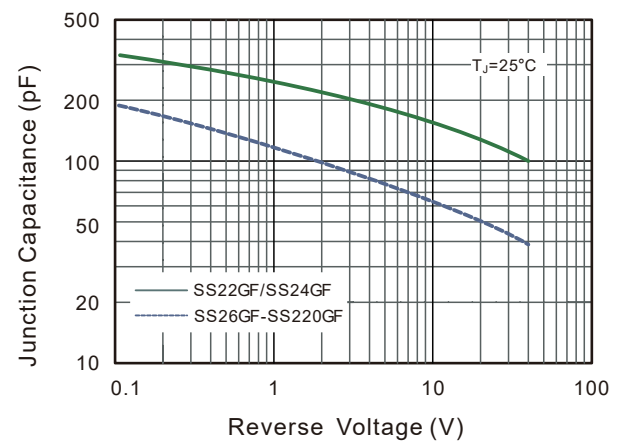
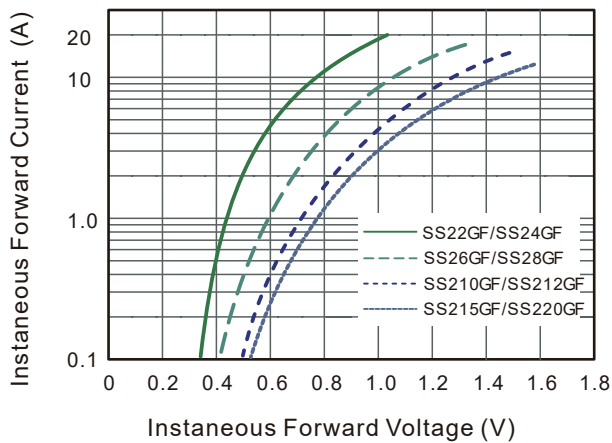


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

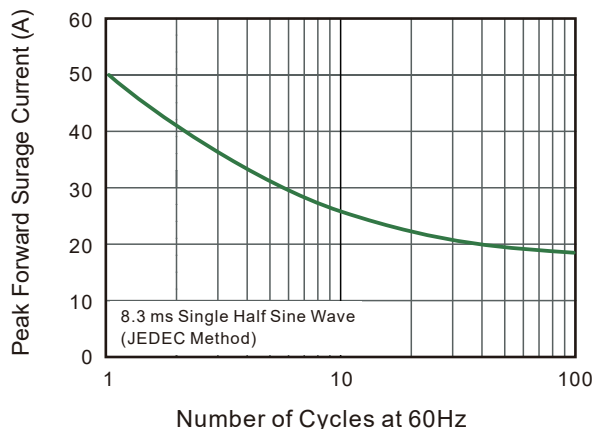
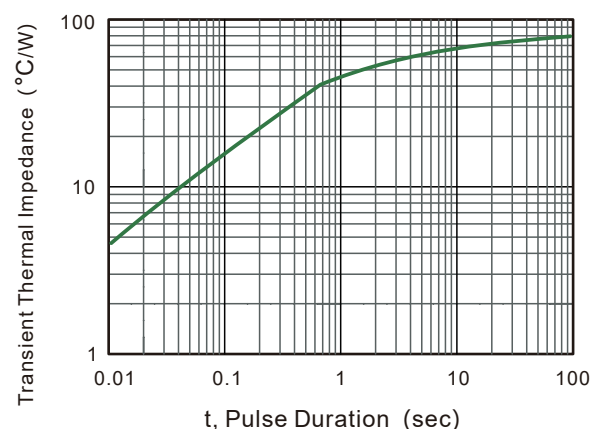
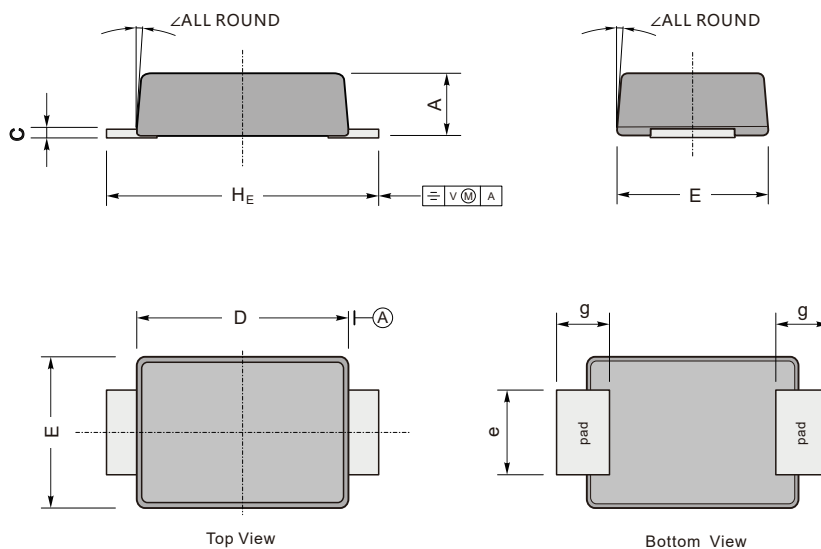


Fig. 6 Typical Transient Thermal Impedance



Package Outline & Dimensions



UNIT		A	C	D	E	e	g	HE	∠
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	

Marking

Type Number	SS22GF	SS24GF	SS26GF	SS28GF	SS210GF	SS212GF	SS215GF	SS220GF
Making	SS22	SS24	SS26	SS28	SS210	SS212	SS215	SS220

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