

SS22BG~SS220BG

ROHS

Surface Mount Schottky Barrier Rectifier



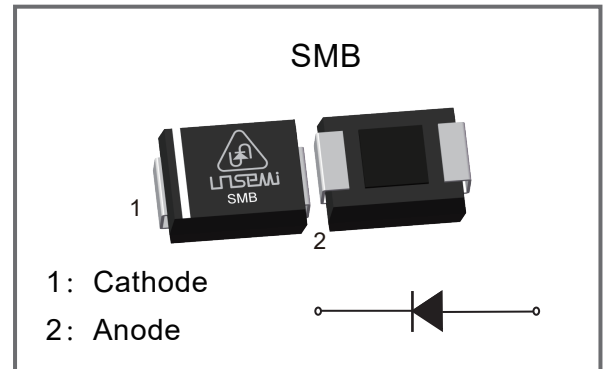
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Features

- ◆ 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: SMB
- ◆ Quantity Per Reel : 3,000pcs
- ◆ Approx. Weight : 0.095g / 0.003oz
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026



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	SS22 BG	SS24 BG	SS26 BG	SS28 BG	SS210 BG	SS212 BG	SS215 BG	SS220 BG	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	55				45				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°C	IR	0.5		0.3				mA	
	Ta=100°C	IR	5.0		3.0					
Typical Junction Capacitance ⁽¹⁾	Cj	220				110				pF
Typical Thermal Resistance ⁽²⁾	R _{θJA}	60								°C/W
Operating Junction Temperature Range	TJ	-55 ~ +125								°C
Storage Temperature Range	Tstg	-55 ~ +150								°C

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

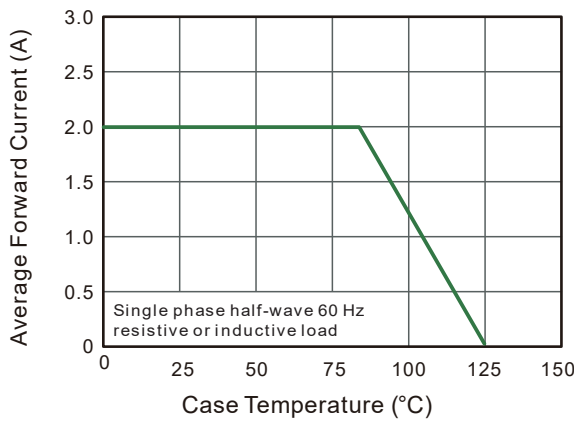


Fig. 2 Typical Reverse Characteristics

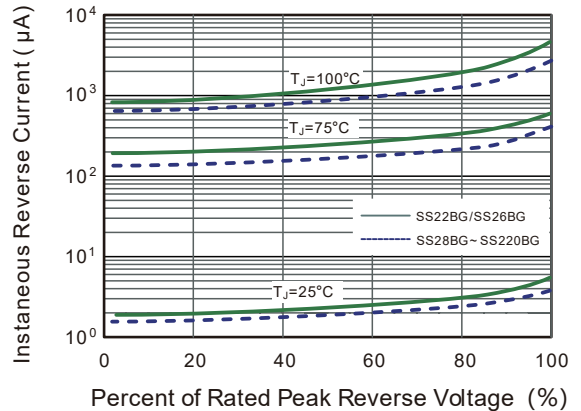


Fig.3 Typical Forward Characteristic

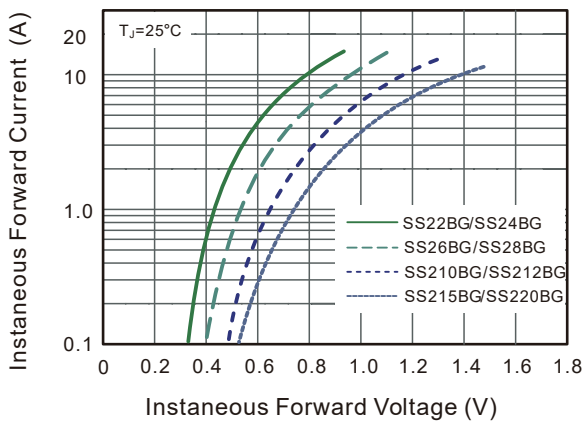


Fig. 4 Typical Junction Capacitance

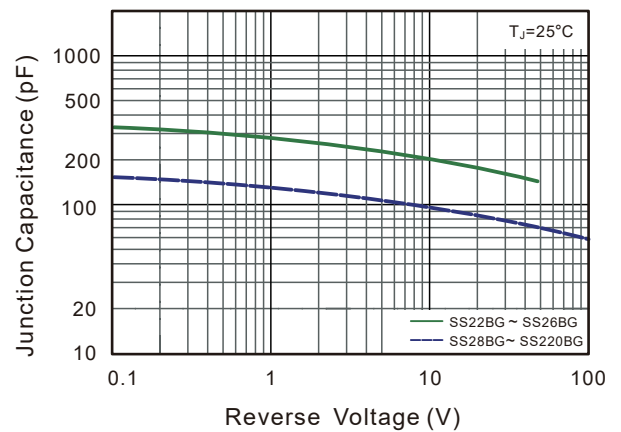


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

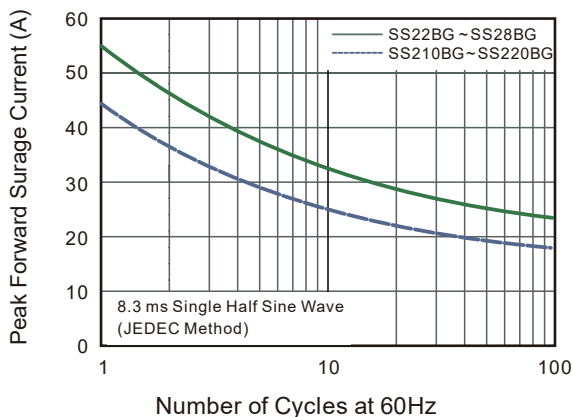
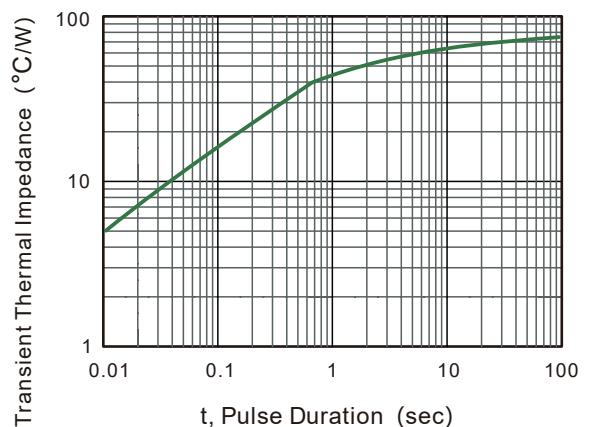
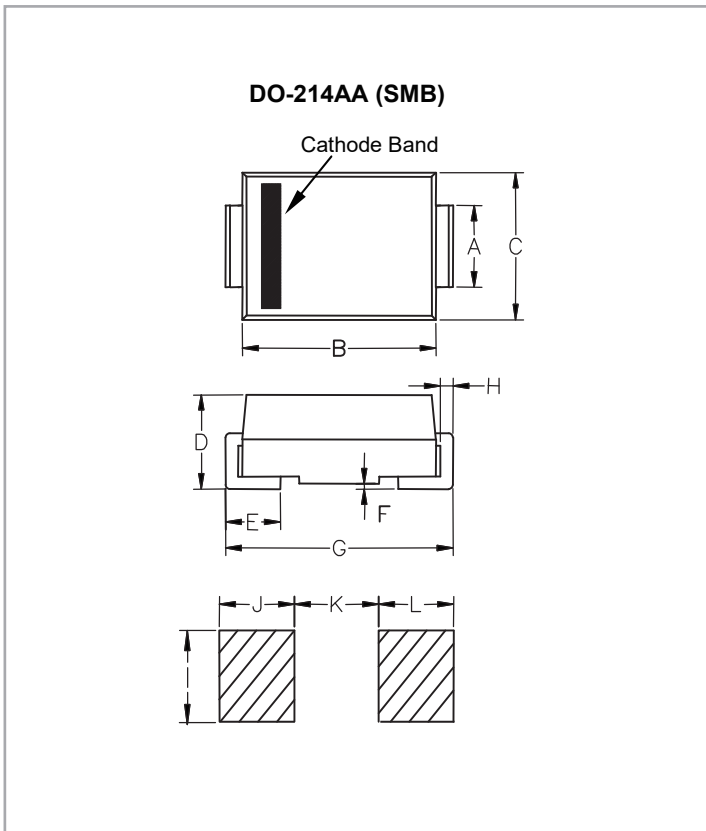


Fig. 6 Typical Transient Thermal Impedance



Package Outline & Dimensions



Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.077	0.087	1.960	2.200
B	0.171	0.191	4.350	4.850
C	0.130	0.155	3.300	3.940
D	0.084	0.096	2.130	2.440
E	0.030	0.060	0.750	1.520
F	-	0.008	-	0.203
G	0.201	0.216	5.100	5.500
H	0.006	0.012	0.152	0.305
I	0.089	-	2.260	-
J	0.085	-	2.160	-
K	-	0.107	-	2.740
L	0.085	-	2.160	-

Marking

Type Number	SS22BG	SS24BG	SS26BG	SS28BG	SS210BG	SS212BG	SS215BG	SS220BG
Making	SS22	SS24	SS26	SS28	SS210	SS212	SS215	SS220

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