

SS32CG~SS320CG

ROHS

Surface Mount Schottky Barrier Rectifier



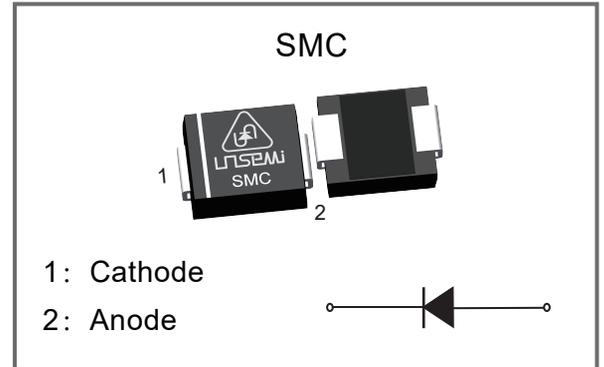
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Features

- ◆ 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: SMC
- ◆ Quantity Per Reel : 3,000pcs
- ◆ Approx. Weight : 0.22g / 0.0077oz
- ◆ 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	SS32 CG	SS34 CG	SS36 CG	SS38 CG	SS310 CG	SS312 CG	SS315 CG	SS320 CG	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)	3.0								A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	80								A
Max Instantaneous Forward Voltage at 3A	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	450		350						pF
Typical Thermal Resistance ⁽²⁾	R _{θJA}	50								°C/W
Operating Junction Temperature Range	TJ	-55 ~ +150								°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

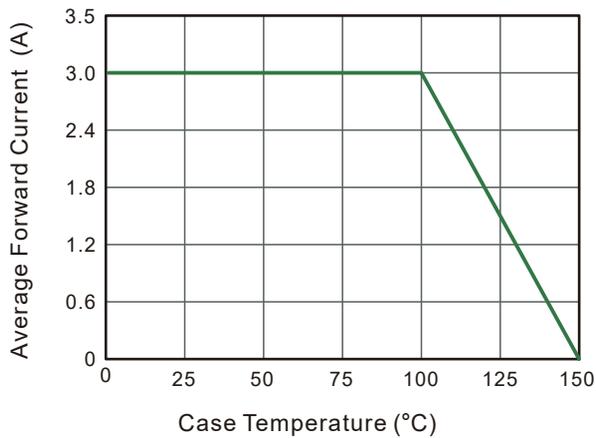


Fig. 2 Typical Reverse Characteristics

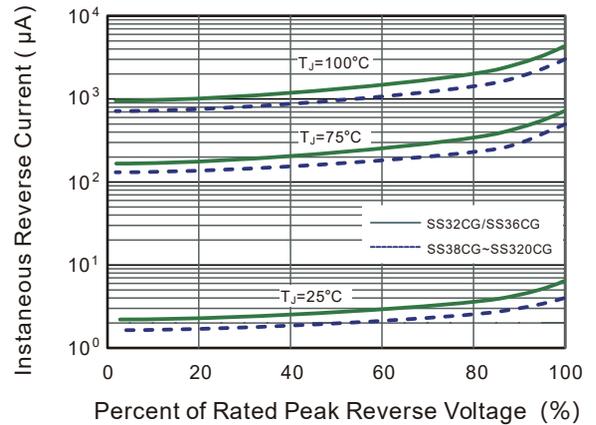


Fig.3 Typical Forward Characteristic

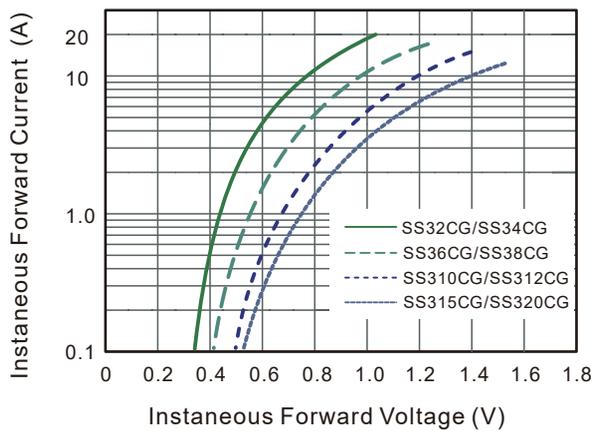


Fig. 4 Typical Junction Capacitance

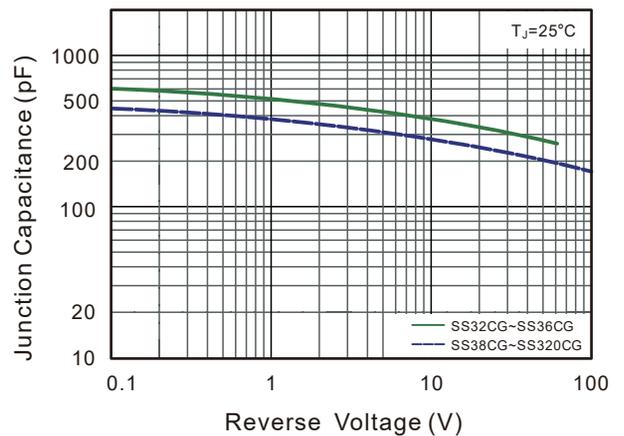


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

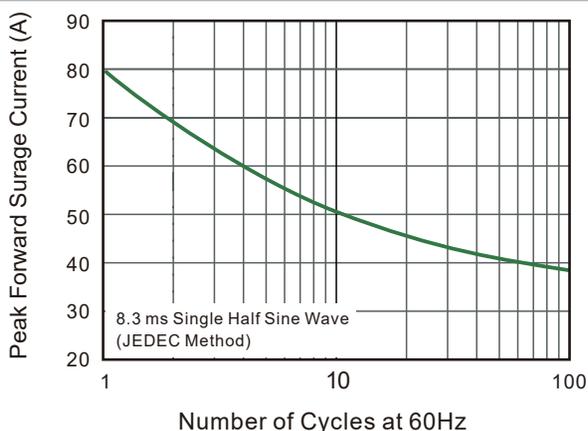
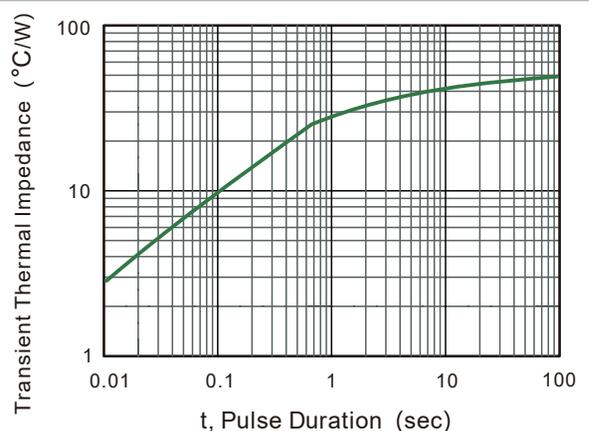
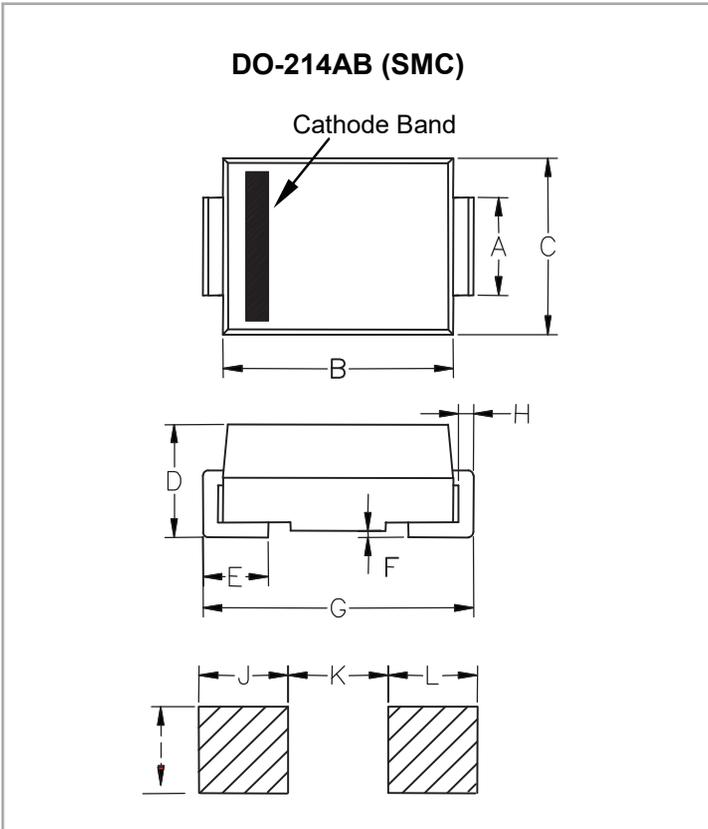


Fig. 6 Typical Transient Thermal Impedance



Package Outline & Dimensions



Dimensions	Inches		Millimeters	
	Min.	Max.	Min.	Max.
A	0.114	0.126	2.86	3.160
B	0.260	0.280	6.520	7.020
C	0.220	0.245	5.520	6.150
D	0.079	0.103	1.980	2.590
E	0.030	0.060	0.750	1.510
F	-	0.008	-	0.203
G	0.305	0.320	7.640	8.020
H	0.006	0.012	0.152	0.305
I	0.129	-	3.300	-
J	0.094	-	2.400	-
K	-	0.165	-	4.200
L	0.094	-	2.400	-

Marking

Type Number	SS32CG	SS34CG	SS36CG	SS38CG	SS310CG	SS312CG	SS315CG	SS320CG
Making	SS32	SS34	SS36	SS38	SS310	SS312	SS315	SS320

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