SS32BG~SS320BG

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: SMB
- Quantity Per Reel : 3,000pcs
- ◆ Approx. Weight : 0.095 / 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	SS32 BG	SS34 BG	SS36 BG	SS38 BG	SS310 BG	SS312 BG	SS315 BG	SS320 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		lf(AV)	3.0								А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		IFSM	80							А	
Max Instantaneous Forward Voltage at 3A		Vf	0.{	55	0.70 0		0.8	0.85 0.4		95	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	Ta=25℃	lr	0.5			0.3					mA
	Ta=100°C	lr	5.0 3.0								
Typical Junction Capacitance (1)		Cj	450 400					pF			
Typical Thermal Resistance ⁽²⁾		R _{eja}	60							°C/W	
Operating Junction Temperature Range		TJ	-55 ~ +150								°C
Storage Temperature Range		Tstg	-55 ~ +150								°C

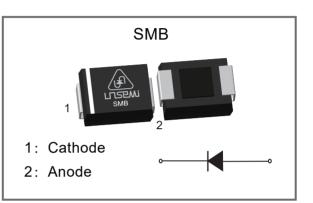
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Note:(1) Measured at 1 MHz and applied reverse voltage of 4VDC.

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

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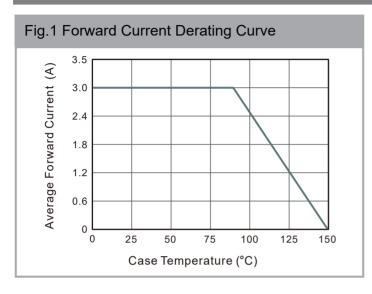


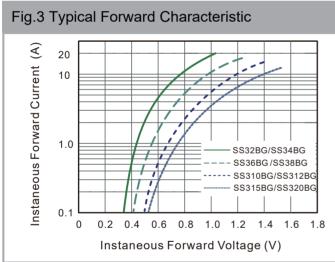
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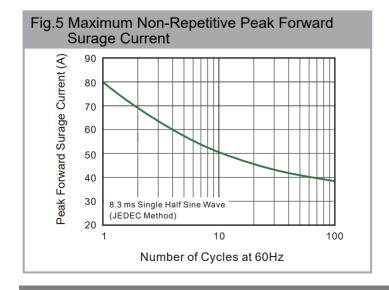
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Electrical Characteristics Curves







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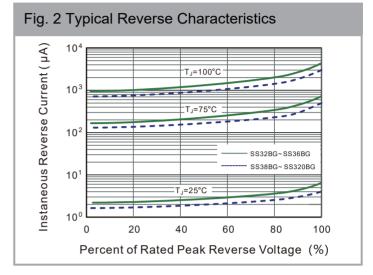


Fig. 4 Typical Junction Capacitance

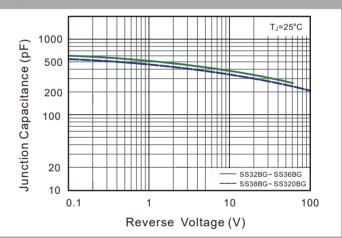
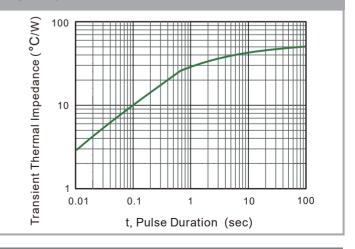


Fig. 6 Typical Transient Thermal Impedance



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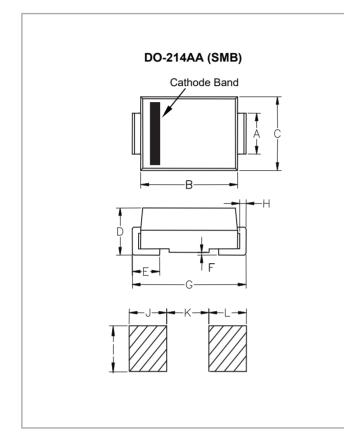
For technical questions, contact: tech@unsemi.com.tw



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Package Outline & Dimensions



Dimonsione	Incl	nes	Millimeters			
Dimensions	Min.	Max.	Min.	Max.		
А	0.077	0.087	1.960	2.200		
В	0.171	0.191	4.350	4.850		
С	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		
Н	0.006	0.012	0.152	0.305		
I	0.089	-	2.260	-		
J	0.085	-	2.160	-		
К	-	0.107	-	2.740		
L	0.085	-	2.160	-		

Marking

Type Number	SS32BG	SS34BG	SS36BG	SS38BG	SS310BG	SS312BG	SS315BG	SS320BG
Making	SS32	SS34	SS36	SS38	SS310	SS312	SS315	SS320



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