SS52BGF~SS520BGF

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

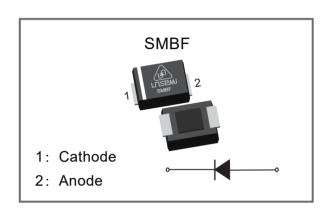
◆ Case: SMBF

◆ Quantity Per Reel : 3,000pcs◆ Approx. Weight : 57mg/0.002oz

◆ 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	SS52 BGF	SS54 BGF	SS56 BGF	SS58 BGF	SS510 BGF	SS512 BGF	SS515 BGF	SS520 BGF	Units	
Maximum Repetitive Peak Reve	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	80 100 120 150 200				V
Maximum Average Forward Rec	tified Current	lF(AV)				5	.0)			
Peak Forward Surge Current,8.3 Half Sine-wave Superimposed (Load (JEDEC method)	IFSM	120							А		
Max Instantaneous Forward Vol	VF	0.55 0.70 0.85						٧			
Maximum DC Reverse Current	Ta=25℃	lR				1	.0				mA
at Rated DC Reverse Voltage	Ta=100℃	lR				5	0		150 105 150] "'^
Typical Junction Capacitance (1)		Cj	80	00			500			pF	
Typical Thermal Resistance ⁽²⁾	Resistance ⁽²⁾ R _{eJA} 45						%\M				
Operating Junction Temperature	Range	TJ				-55 ~	+150				°C
Storage Temperature Range	rage Temperature Range Tstg -55 ~ +150						${\mathfrak C}$				

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.

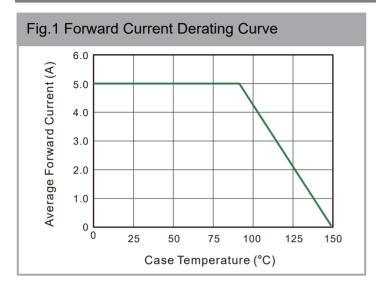


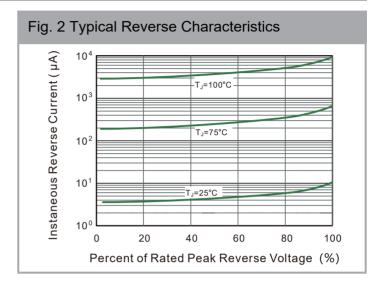


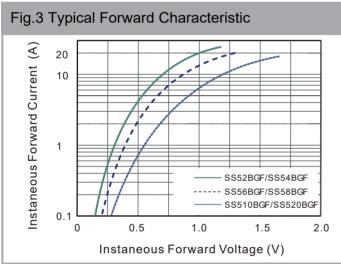
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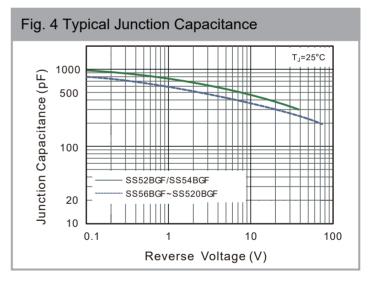
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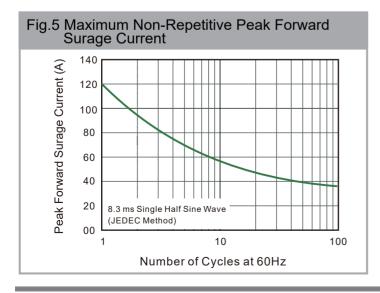
Electrical Characteristics Curves

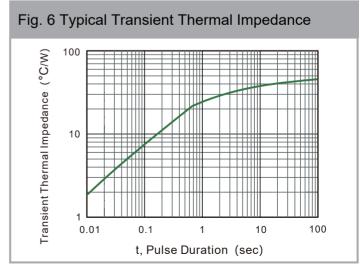












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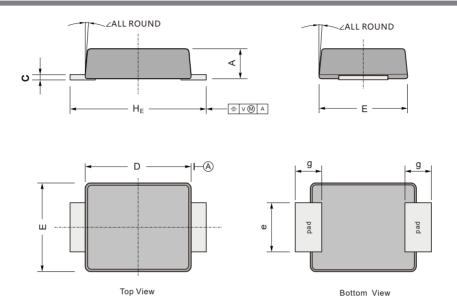




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Package Outline & Dimensions



UNIT		А	С	D	Е	H _∈	е	g	۷
mm	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0	- 9°
111111	min	1.1	0.18	4.2	3.5	5.1	1.9	1.0	
mil	max	51	10	173	146	216	86	40	
'''''	min	43	7	165	138	200	75		

Marking

Type Number	SS52BGF	SS54BGF	SS56BGF	SS58BGF	SS510BGF	SS512BGF	SS515BGF	SS520BGF
Making	S52B	S54B	S56B	S58B	S510B	S512B	S515B	S520B



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