SS32BGF~SS320BGF

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

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 BGF	SS34 BGF	SS36 BGF	SS38 BGF	SS310 BGF	SS312 BGF	SS315 BGF	SS320 BGF	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								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	0.5	55	0.70 0.85 0.95			95	V		
Maximum DC Reverse Current at Rated DC Reverse Voltage	Ta=25℃	lr	0.5 0.3					mA			
	Ta=100 ℃	lr	5.0 3.0								
Typical Junction Capacitance (1)		Cj	45	450 400						pF	
Typical Thermal Resistance ⁽²⁾		$R_{_{\theta JA}}$	65								°C/W
Operating Junction Temperature Range		TJ	-55 ~ +150							°C	
Storage Temperature Range		Tstg	-55 ~ +150								°C

ROHS

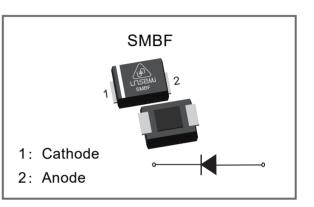
Note:(1) Measured at 1 MHz and applied reverse voltage of 4VDC.

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

Revision March 1,2022



www.unsemi.com.tw



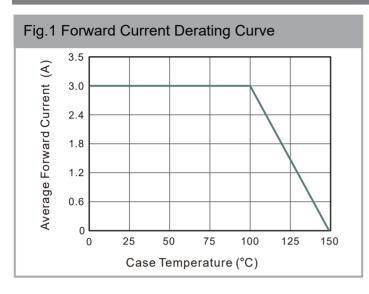


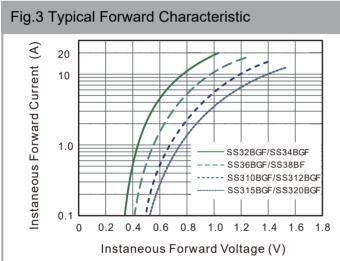
SS32BGF~SS320BGF

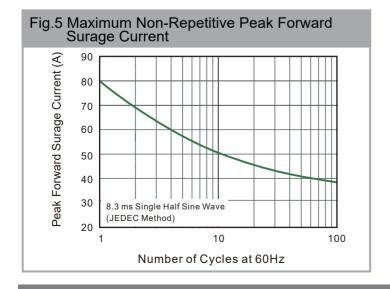
Surface Mount Schottky Barrier Rectifier

ROHS

Electrical Characteristics Curves







Revision March 1,2022

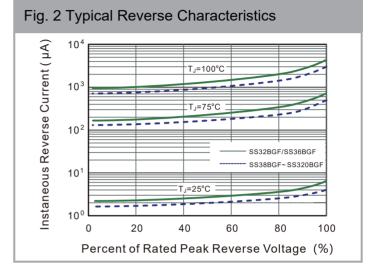


Fig. 4 Typical Junction Capacitance

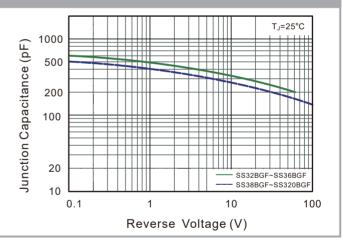
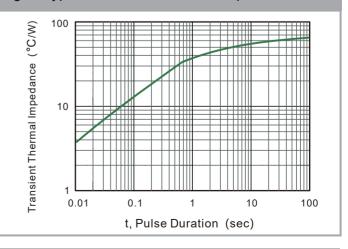


Fig. 6 Typical Transient Thermal Impedance



www.unsemi.com.tw

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

Specifications are subject to change without notice. Please refer to www.unsemi.com.tw for current information.

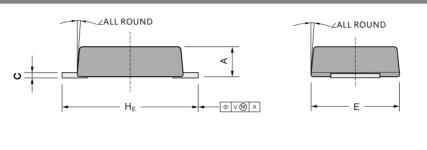


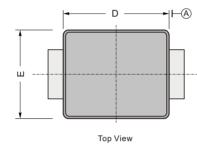
SS32BGF~SS320BGF

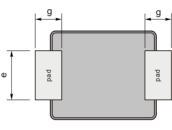
Surface Mount Schottky Barrier Rectifier

ROHS

Package Outline & Dimensions







UNIT		А	С	D	E	H _E	е	g	2
mm max	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0	- 9°
	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	40	

Marking

Type Number	SS32BGF	SS34BGF	SS36BGF	SS38BGF	SS310BGF	SS312BGF	SS315BGF	SS320BGF
Making	S32B	S34B	S36B	S38B	S310B	S312B	S315B	S320B



Disclaimer

UNSEMI RESERVES THE RIGHT TO MAKE CHANGE ON OUR PRODUTS , PRODUCTS SPECIFICATION AND DATA WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

UN SEMICONDUCTOR LIMITED its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "UNSEMI") does not give any representations or warranties for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

In no event shall UNSEMI be liable for any indirect, incidental, punitive, special or consequential damages (including any and all implied warranties, warranties of fitness for particular purpose, non-infringement and merchantability.) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Statements regarding the suitability of products for certain types of applications are based on UNSEMI knowledge of typical requirements that are often placed on UNSEMI products in generic applications. Such statements are not binding, statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify UNSEMI's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Unless otherwise agreed in writing, UNSEMI product is not designed, authorized or warranted to be suitable for use in medical life-saving, or life-sustaining application, nor in applications where failure or malfunction of a UNSEMI product can reasonably be expected to result in personal injury, death or severe property or environmental damage. UNSEMI and its suppliers accept no liability for inclusion or use of UNSEMI products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

All referenced brands, product names, service names and trademarks are the property of their respective owners.

ROHS