

3A,150V Schottky Barrier Rectifier

Features

- Low leakage current
- Schottky barrier diode
- Low forward voltage drop
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition
- High temperature soldering guaranteed: 260°C/10 seconds



Applications

For use in low voltage, high frequency inverters, free-wheeling and polarity protection application.

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)					
Parameter	Symbol	SK3B5B	Unit		
Maximum repetitive peak reverse voltage	Vrrm	150	V		
Maximum RMS voltage	VRMS	105	V		
Maximum DC blocking voltage	V _{DC}	150	V		
Maximum average forward rectified current	IF(AV)	3	А		
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	IFSM	100	A		
Operating junction temperature range	TJ	-55 to +150	°C		
Storage temperature range	Tstg	-55 to +150	°C		

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Тур	Unit			
Thermal Resistance, Junction to Ambient	R _{θJA}	85	°C /W			
Thermal Resistance, Junction to Case	Rejc	15	°C /W			
Thermal Resistance, Junction to Lead	R _{θJL}	20	°C /W			



Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	SK3B5B	Unit		
Forward Drop Voltage	VF	I _F =3A	0.85	V		
Reverse leakage current @V _R	IR	TJ =25℃	30	uA		
		T」=125℃	1000			
Typical junction capacitance	CJ	4.0 V 1 MHZ	80	pF		

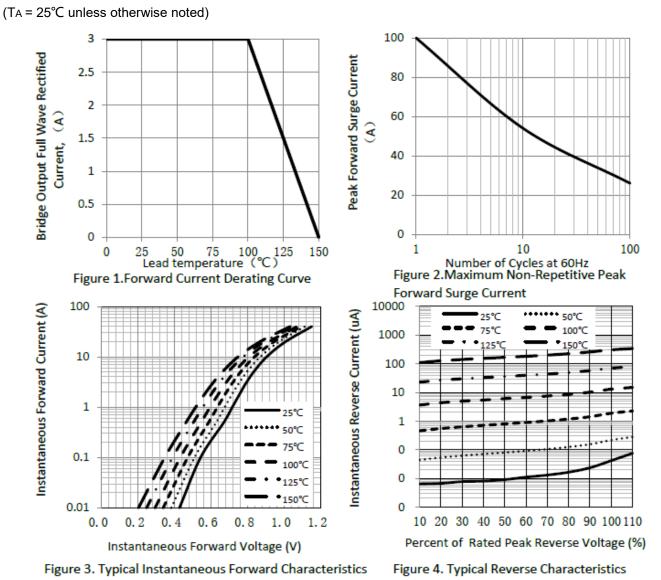
Note:

1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.



SK3B5B GOOD-ARK Electronics

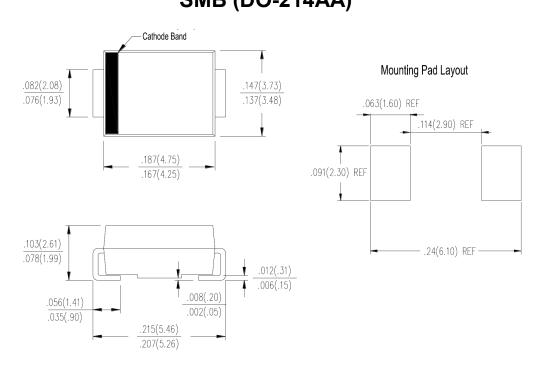
Ratings and Characteristics Curves





Package Outline Dimensions

in inches (millimeters)



Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.16	Modify document format

____ SMB (DO-214AA)



Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any thirdparty's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page. (http://www.goodark.com)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.