

# 5A,200V 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	SK5C0B	Unit		
Maximum repetitive peak reverse voltage	Vrrm	200	V		
Maximum RMS voltage	Vrms	140	V		
Maximum DC blocking voltage	V <sub>DC</sub>	200	V		
Maximum average forward rectified current	IF(AV)	5	А		
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	IFSM	120	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 <sub>θJA</sub>	85	°C /W			
Thermal Resistance, Junction to Case	Rejc	15	°C /W			
Thermal Resistance, Junction to Lead	R <sub>θJL</sub>	20	°C /W			



Electrical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	SK5C0B	Unit		
Forward Drop Voltage	VF	I⊧=5A	0.85	V		
Reverse leakage current @V <sub>R</sub>	IR	TJ =25℃	30	uA		
		T」=125℃	1000			
Typical junction capacitance	CJ	4.0 V 1 MHZ	96	pF		

Note:

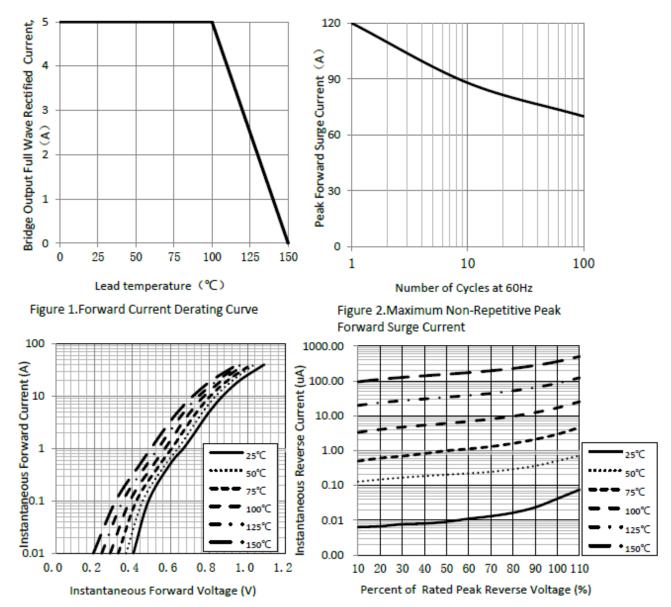
1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.

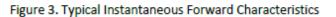


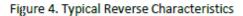
**SK5C0B** GOOD-ARK Electronics

#### **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)



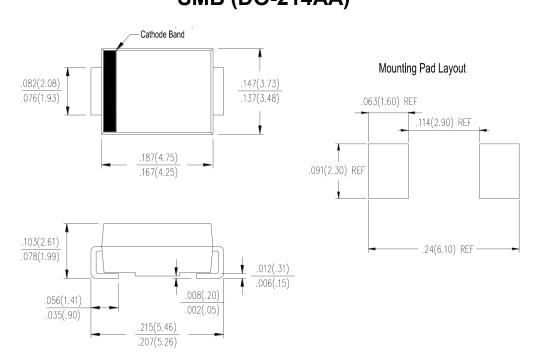






# Package Outline Dimensions

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)



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