

# 3A,70-100V Schottky Barrier Rectifiers

#### **Features**

- Low leakage current
- Schottky barrier diodes
- 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	SK37B	SK38B	SK39B	SK3BB	Unit
Maximum repetitive peak reverse voltage	Vrrm	70	80	90	100	V
Maximum RMS voltage	V <sub>RMS</sub>	49	56	63	70	V
Maximum DC blocking voltage	V <sub>DC</sub>	70	80	90	100	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	3			А	
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	Ігзм		10	00		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	



# SK37B thru SK3BB GOOD-ARK Electronics

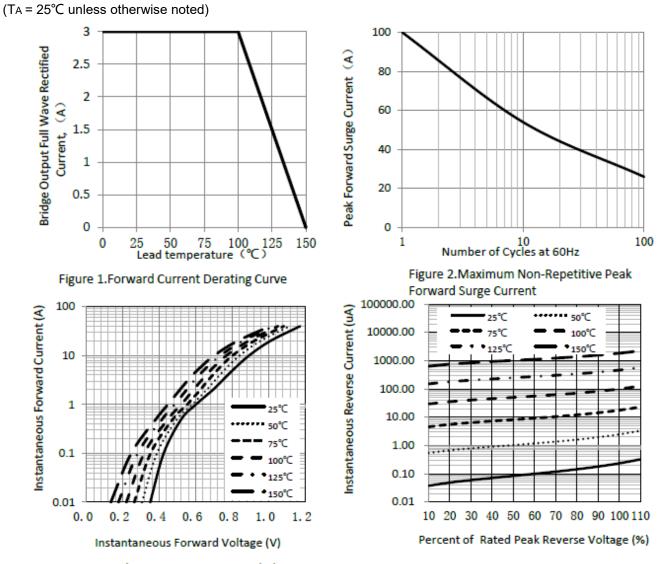
Electrical Specifications(TA=25°C unless otherwise noted)							
Parameter	Symbol	Test Conditions	SK37B	SK38B	SK39B	SK3BB	Unit
Forward Drop Voltage	VF	I⊧=3A	0.79			V	
Reverse leakage I <sub>R</sub> current @V <sub>R</sub>	1-	TJ =25℃	30				uA
	T」=125℃	2000					
Typical junction capacitance	CJ	4.0 V 1 MHZ	100			pF	

Note:

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



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



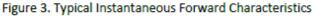
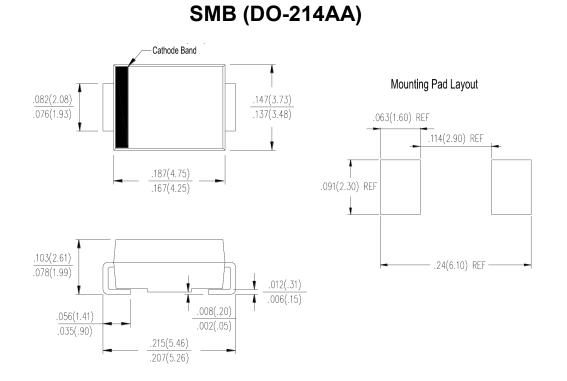


Figure 4. Typical Reverse Characteristics



### 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



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