

5A,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



SMA(DO-214AC)

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	SK57A	SK58A	SK59A	SK5BA	Unit
Maximum repetitive peak reverse voltage	Vrrm	70	80	90	100	V
Maximum RMS voltage	V _{RMS}	49	56	63	70	V
Maximum DC blocking voltage	V _{DC}	70	80	90	100	V
Maximum average forward rectified current	I _{F(AV)}	5			А	
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	Ігѕм		12	20		A
Operating junction temperature range	TJ	-55 to +150			°C	
Storage temperature range	Тѕтс	-55 to +150			°C	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)				
Parameter	Symbol	Тур	Unit	
Thermal Resistance, Junction to Ambient	R _{θJA}	90	°C /W	
Thermal Resistance, Junction to Case	Rejc	20	°C /W	
Thermal Resistance, Junction to Lead	R _{θJL}	25	°C /W	



SK57A thru SK5BA GOOD-ARK Electronics

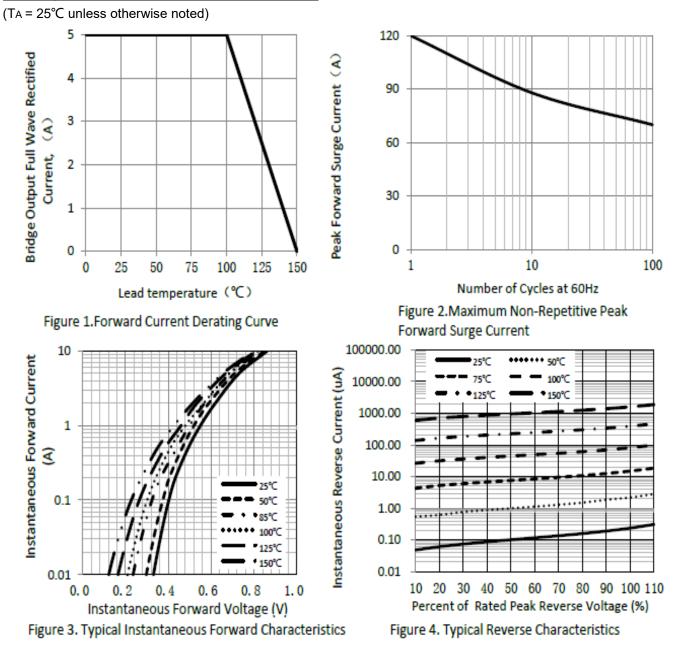
Electrical Specifications(TA=25°C unless otherwise noted)							
Parameter	Symbol	Test Conditions	SK57A	SK58A	SK59A	SK5BA	Unit
Forward Drop Voltage	VF	I⊧=5A	0.79			V	
Reverse leakage current @V _R	1_	TJ =25℃	0.03				mA
	I _R TJ=125℃	2					
Typical junction capacitance	CJ	4.0 V 1 MHZ	96			pF	

Note:

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



Ratings and Characteristics Curves

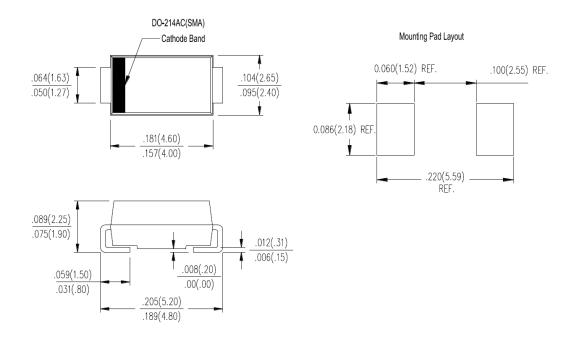




Package Outline Dimensions

in inches (millimeters)

SMA (DO-214AC)



Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.19	Modify document format



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