

1A,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



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	SK1C0	Unit		
Maximum repetitive peak reverse voltage	Vrrm	200	V		
Maximum RMS voltage	Vrms	140	V		
Maximum DC blocking voltage	V _{DC}	200	V		
Maximum average forward rectified current	IF(AV)	1	А		
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	Ifsm	30	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			



Electrical Specifications(TA=25°C unless otherwise noted)							
Parameter	Symbol	Test Conditions	SK1C0	Unit			
Forward Drop Voltage	VF	I _F =1A	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	30	pF			

Note:

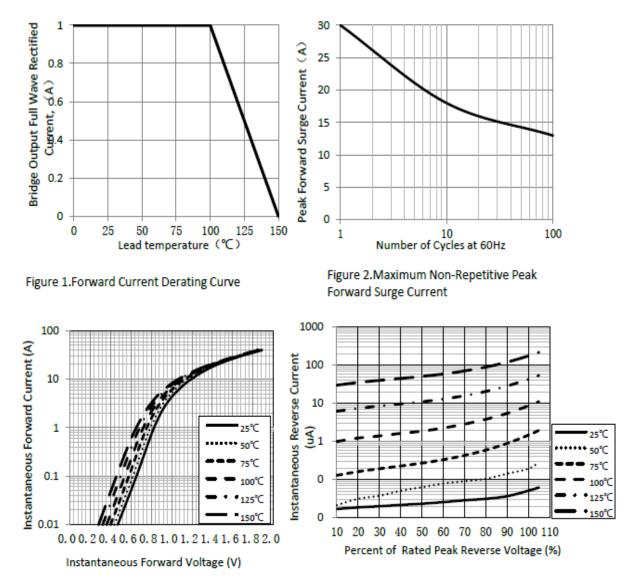
1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.



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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



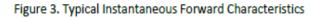


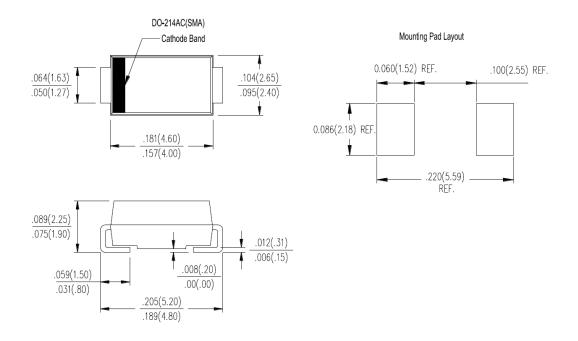
Figure 4. Typical Reverse Characteristics



Package Outline Dimensions

in inches (millimeters)

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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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