

3A,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 ℃/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	SK3C0A	Unit		
Maximum repetitive peak reverse voltage	V _{RRM}	200	V		
Maximum RMS voltage	V _{RMS}	140	V		
Maximum DC blocking voltage	V _{DC}	200	V		
Maximum average forward rectified current	I _{F(AV)}	3	Α		
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	IFSM	100	Α		
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 _θ JA	90	°C /W			
Thermal Resistance, Junction to Case	Rejc	20	°C /W			
Thermal Resistance, Junction to Lead	R _{eJL}	25	°C /W			



SK3C0A GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	SK3C0A	Unit		
Forward Drop Voltage	V _F	I _F =3A	0.85	V		
Reverse leakage current @V _R	I _R	T₃ =25°C	30	- uA		
		T」=125°C	1000			
Typical junction capacitance	Сл	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.





Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

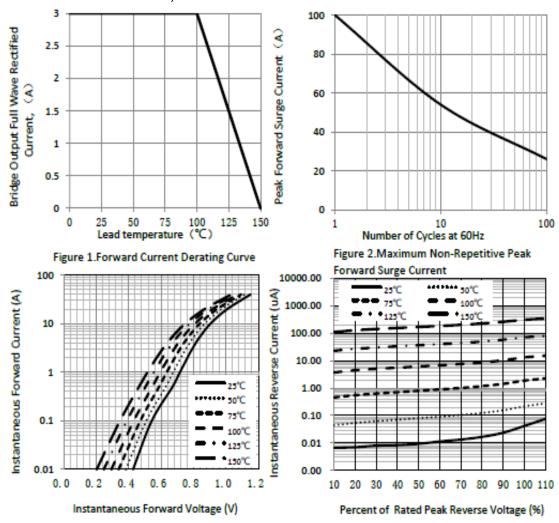
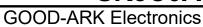


Figure 3. Typical Instantaneous Forward Characteristics

Figure 4. Typical Reverse Characteristics

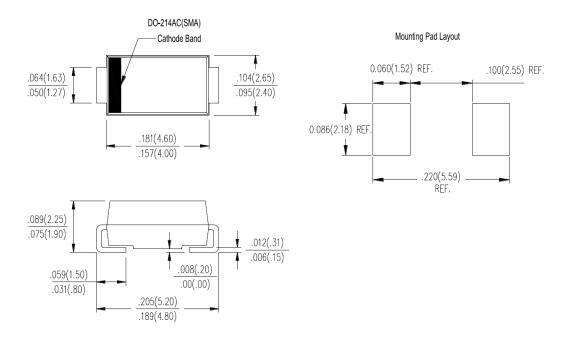




Package Outline Dimensions

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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