

GOOD-ARK Electronics

2A,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 ℃/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	SK27A	SK28A	SK29A	SK2BA	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	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)}	2			Α	
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	IFSM		5	50		A
Operating junction temperature range	TJ	-55 to +150			°C	
Storage temperature range	T _{STG}	-55 to +150			°C	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)				
Parameter	Symbol	Тур	Unit	
Thermal Resistance, Junction to Ambient	RθJA	90	°C /W	
Thermal Resistance, Junction to Case	Rejc	20	°C /W	
Thermal Resistance, Junction to Lead	R _{0JL}	25	°C /W	



SK27A thru SK2BA GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)							
Parameter	Symbol	Test Conditions	SK27A	SK28A	SK29A	SK2BA	Unit
Forward Drop Voltage	V _F	I _F =2A	0.79			V	
Reverse leakage current @V _R		T _J =25°C	0.03				- mA
	I _R	T _J =125°C	2				
Typical junction capacitance	CJ	4.0 V 1 MHZ	200			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)

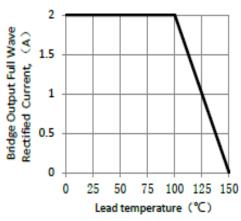


Figure 1. Forward Current Derating Curve

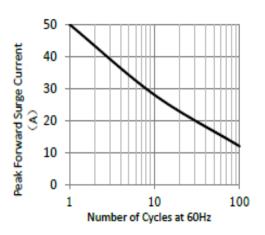


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

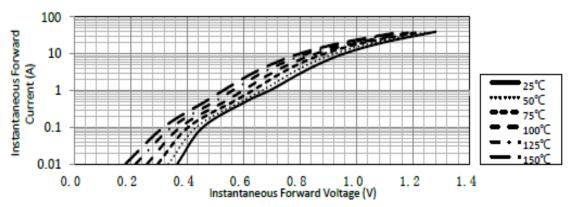


Figure 3. Typical Instantaneous Forward Characteristics

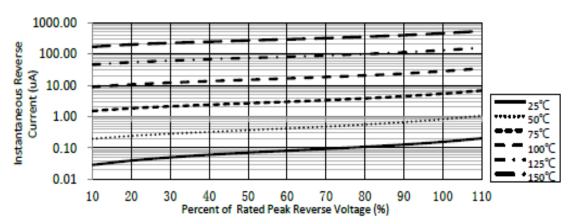


Figure 4. Typical Reverse Characteristics

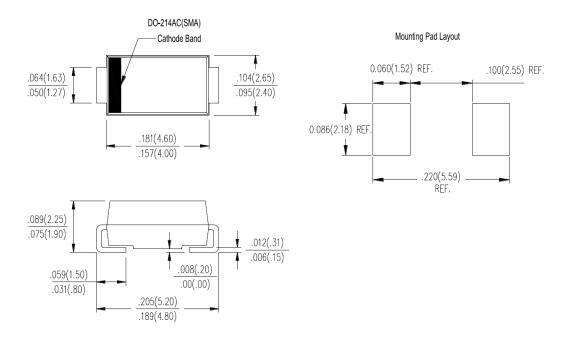


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Package Outline Dimensions

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



SK27A thru SK2BA

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