

GOOD-ARK Electronics

3A,20-60V 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





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	SK32A	SK33A	SK34A	SK35A	SK36A	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	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			А		
Operating junction temperature range	TJ	-55 to +125 -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	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			



SK32A thru SK36A GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)								
Parameter	Symbol	Test Conditions	SK32A	SK33A	SK34A	SK35A	SK36A	Unit
Forward Drop Voltage	V _F	I _F =3A	0.50 0.70			70	V	
Reverse leakage current @V _R		T _J =25°C	0.20			0.15		- mA
	IR	I _R T _J =125°C						
Typical junction capacitance	Сл	4.0 V 1 MHZ	250			pF		

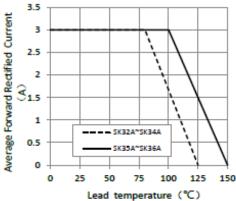
Note:

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)



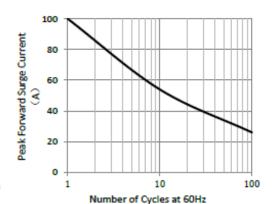
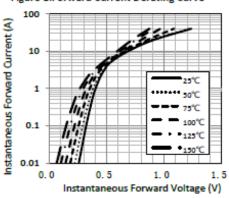


Figure 1.Forward Current Derating Curve



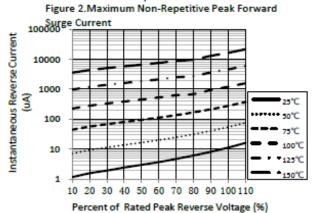
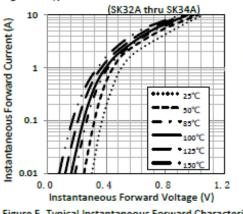


Figure 3. Typical Instantaneous Forward Characteristics



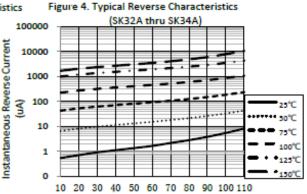


Figure 5. Typical Instantaneous Forward Characteristics (SK35A thru SK36A)

Percent of Rated Peak Reverse Voltage (%) Figure 6. Typical Reverse Characteristics (SK35A thru SK36A)

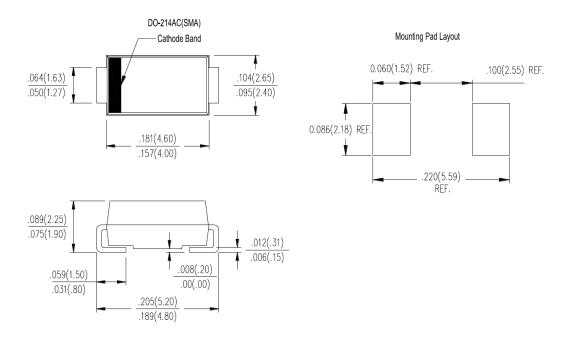


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Package Outline Dimensions

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		



SK32A thru SK36A

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