

GOOD-ARK Electronics

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
- AEC-Q101 qualified



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	ASK57B	ASK58B	ASK59B	ASK5BB	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	IFSM	120			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}	85	°C /W	
Thermal Resistance, Junction to Case	Rejc	15	°C /W	
Thermal Resistance, Junction to Lead	R _{θJL}	20	°C /W	



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Electrical Specifications(TA=25°C unless otherwise noted)							
Parameter	Symbol	Test Conditions	ASK57B	ASK58B	ASK59B	ASK5BB	Unit
Forward Drop Voltage	VF	I⊧=5A	0.79			v	
Reverse leakage current @V _R	1_	TJ =25℃	30				uA
	IR	I _R TJ=125℃	2000				
Typical junction capacitance	CJ	4.0 V 1 MHZ	96			pF	

Note:

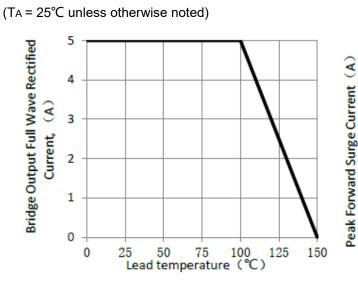
1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.



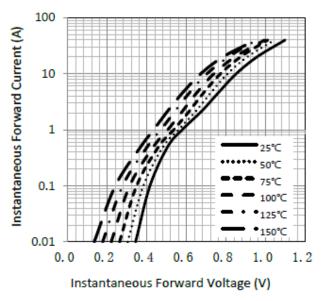
ASK57B thru ASK5BB

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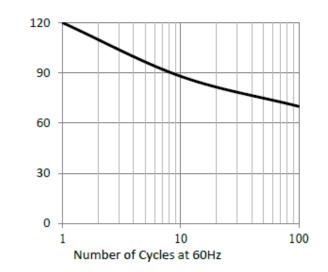
Ratings and Characteristics Curves

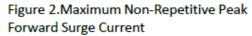












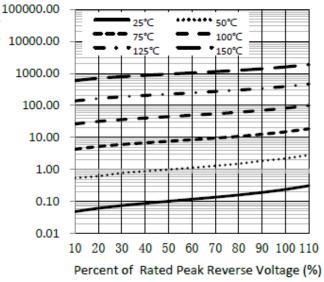


Figure 4. Typical Reverse Characteristics

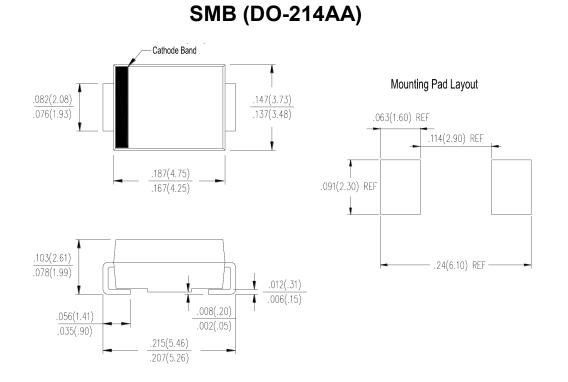
Instantaneous Reverse Current (uA)



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Package Outline Dimensions

in inches (millimeters)



Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.24	Modify document format



ASK57B thru ASK5BB

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