

8A,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



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	SK87	SK88	SK89	SK8B	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)}	8			А	
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	Ігзм		1	75		A
Operating junction temperature range	TJ	-55 to +150			°C	
Storage temperature range	Tstg	-55 to +150			°C	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)				
Parameter	Symbol	Тур	Unit	
Thermal Resistance, Junction to Ambient	R _{θJA}	65	°C /W	
Thermal Resistance, Junction to Case	Rejc	10	°C /W	
Thermal Resistance, Junction to Lead	R _{θJL}	15	°C /W	



Electrical Specifications(TA=25°C unless otherwise noted)							
Parameter	Symbol	Test Conditions	SK87	SK88	SK89	SK8B	Unit
Forward Drop Voltage	VF	I⊧=8A	0.85			v	
Reverse leakage I _R current @V _R	1-	TJ =25℃	0.03				- mA
	IR	T」=125℃	1				
Typical junction capacitance	CJ	4.0 V 1 MHZ	470			pF	

Note:

1. Mounted on copper pad area of 8.0 x 8.0mm to each terminal.



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

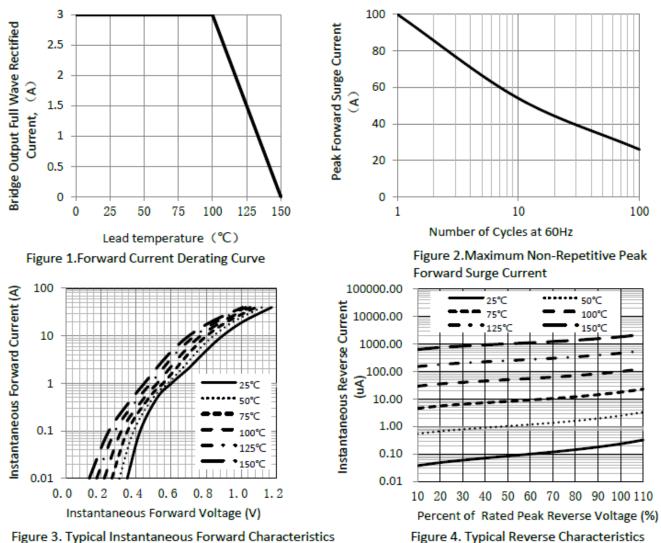


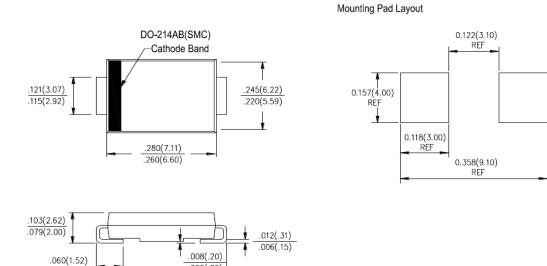
Figure 3. Typical Instantaneous Forward Characteristics



Package Outline Dimensions

in inches (millimeters)

SMC (DO-214AB)



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.320(8.13) .305(7.75)

Revision History

.030(.76)

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.20	Modify document format



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