

3A,150V 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
- AEC-Q101 Qualified





SMA(DO-214AC)

Applications

For use in low voltage, high frequency inverters, free-wheeling and polarity protection application.

Maximum Ratings & Electrical Characteristics(T _A =25°C unless otherwise noted)							
Parameter	Symbol	ASK3B5A	Unit				
Maximum repetitive peak reverse voltage	V _{RRM}	150	V				
Maximum RMS voltage	V _{RMS}	105	V				
Maximum DC blocking voltage	V _{DC}	150	>				
Maximum average forward rectified current	I _{F(AV)}	3	А				
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	Ігѕм	100	Α				
Operating junction temperature range	TJ	-55 to +150	°C				
Storage temperature range	T _{STG}	-55 to +150	°C				

Thermal-Mechanical Specifications (T _A =25°C unless otherwise noted)							
Parameter	Symbol	Тур	Unit				
Thermal Resistance, Junction to Ambient	R _{th} JA	90	°C /W				
Thermal Resistance, Junction to Case	RthJC	20	°C /W				
Thermal Resistance, Junction to Lead	R _{thJL}	25	°C /W				



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Electrical Specifications(T _A =25°C unless otherwise noted)								
Parameter	Symbol	Test Conditions	ASK3B5A	Unit				
Maximum forward drop voltage	VF	I _F =3A	0.85	V				
Maximum reverse leakage current @V _R	I _R	T _J =25°C	30	uA				
		T _J =125°C	1000					
Typical junction capacitance	Сл	V _R =4.0V, f=1MHZ	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 (T_A=25°C unless otherwise noted)

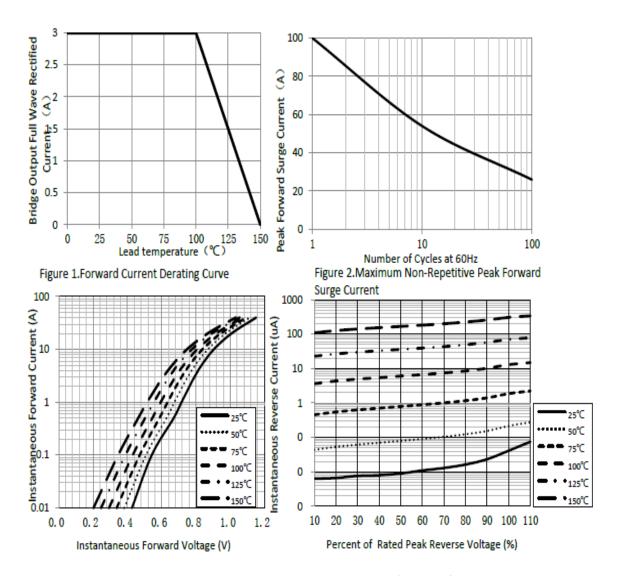


Figure 3. Typical Instantaneous Forward Characteristics

Figure 4. Typical Reverse Characteristics

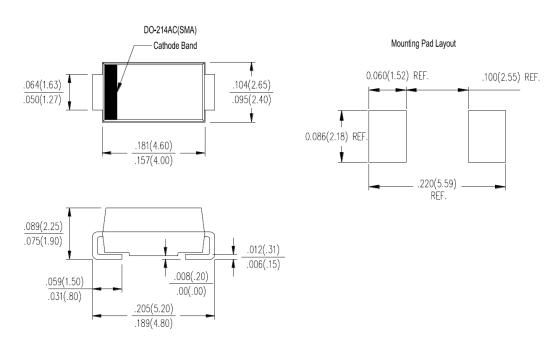




Package Outline Dimensions

in inches (millimeters)

SMA (DO-214AC)





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