



100 V



5A

Cathode

Anode

SMB/DO-214AA

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- For surface mounted applications in order to optimize board space.
- Low power loss,high efficiency.
- High surge capacity.
- Lead free in compliance with EU RoHS 2.0.
- Green molding compound as per IEC 61249 standard.

Mechanical Date

- Case: JEDEC DO-214AA molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026.
- Polarity: Color band denotes cathode end.
- Standard packaging: 12mm tape (EIA-481).
- Weight: 0.0032 ounces, 0.092 grams.

Maximum Ratings (T_A=25 $^{\circ}$ C unless otherwise noted)

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

Parameter		Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	100	V
Maximum RMS Voltage		V _{RMS}	70	V
Maximum DC Blocking Voltage		V _{DC}	100	V
Maximum Average Forward Rectified Current		I _{F(AV)}	5	А
Peak Forward Surge Current : 8.3ms Single Half Sinewave Superimposed on Rated Load		I _{FSM}	120	А
Maximum Forward Voltage at 5A (Note 1)		V _F	0.85	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	TJ = 25℃	- I _R	0.05	mA
	TJ= 125℃		2	
Typical Thermal Resistance (Note 2)		R _{0JA}	100	°C/W
		R _{0JL}	20	
Operating Junction Temperature Range		TJ	-55 to +150	°C
Storage Temperature Range		Т _{stg}	-55 to +150	°C

Notes:1. Pulse Test with PW =300µsec, 1% Duty Cycle.

2. Mounted on PCB with minmum pad layout.

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100 V

SS510B

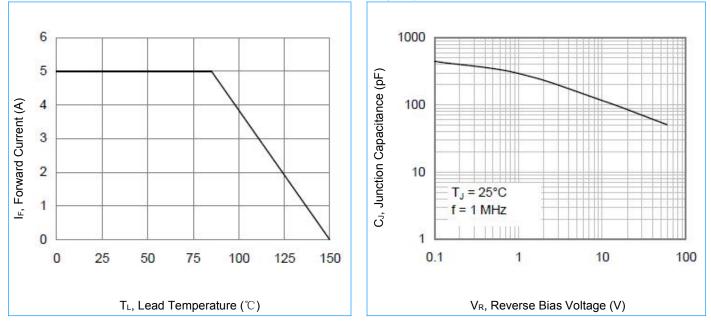
5A

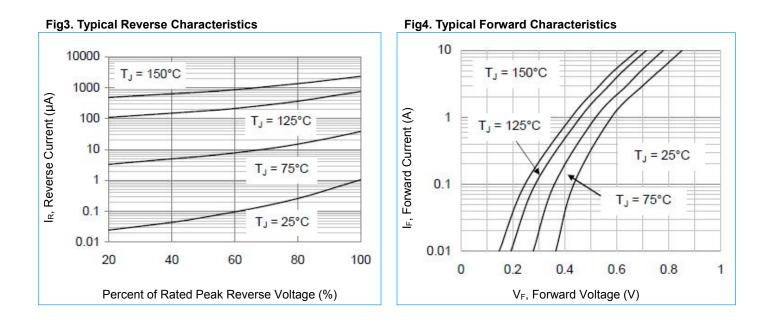
Fig2. Typical Junction Capacitance

SMB/DO-214AA

Rating and Characteristic Curves



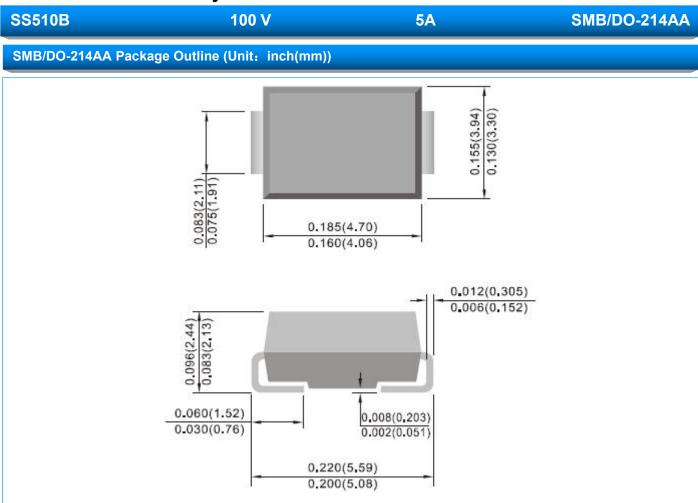




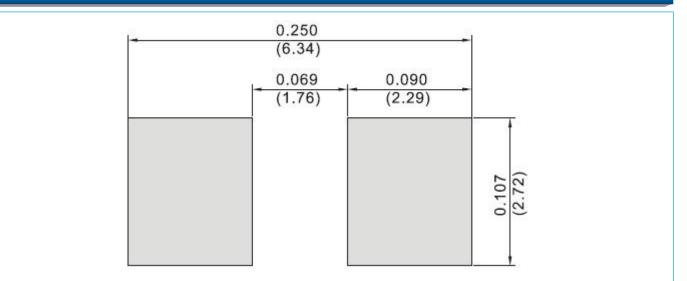
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SMB/DO-214AA Mounting Pad Layout (Unit: inch(mm))



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SS510B	100 V	5A	SMB/DO-214AA			
Packaging Information						
Part Number	Component Package	Quantity	Packaging Option			
SS510B	SMB/DO-214AA	3000 PCS	per 13" plastic Reel			
		800 PCS	per 7" plastic Reel			

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Specifications are subject to change without notice.
Please refer to www.socay.com for current information.