

SS52B~SS510B

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 100 Volt **CURRENT** 5 Ampere

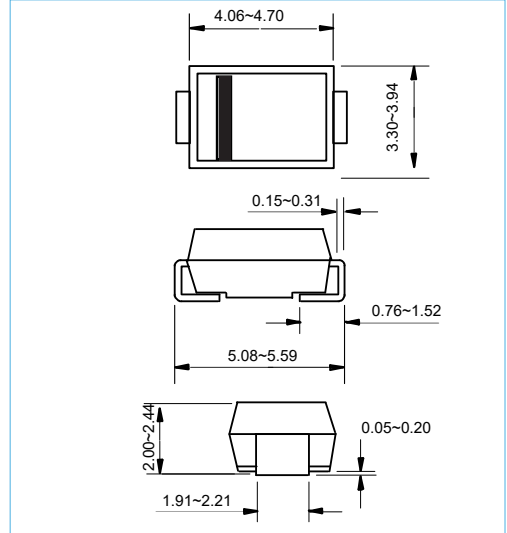
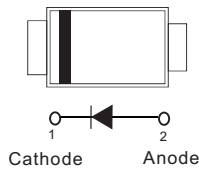
SMB / DO-214AA Unit:mm

FEATURES

- Low power loss, High efficiency
- High surge capacity
- High current capacity, low V_F
- Lead free in compliance with EU RoHS 2.0

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SS52B	SS53B	SS54B	SS55B	SS56B	SS58B	SS510B	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V	
Maximum Average Forward Current	$I_{F(AV)}$	5							A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100							A	
Maximum Forward Voltage at 5 A	V_F	0.55		0.75		0.85			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=100^{\circ}C$	I_R	1.0					20			mA
Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$	16					55			$^{\circ}C / W$
Typical Junction Capacitance	C_J	200							pF	
Operating Junction Temperature Range	T_J	-55 to +150							$^{\circ}C$	
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}C$	

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RATING AND CHARACTERISTIC CURVES

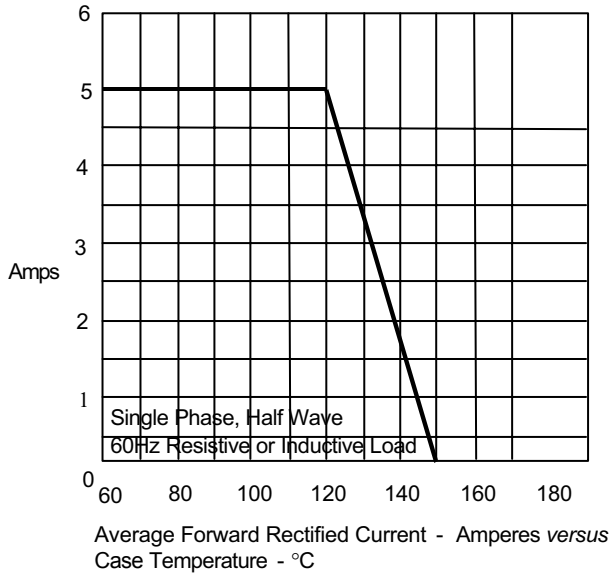


Fig.1 FORWARD CURRENT DERATING CURVE

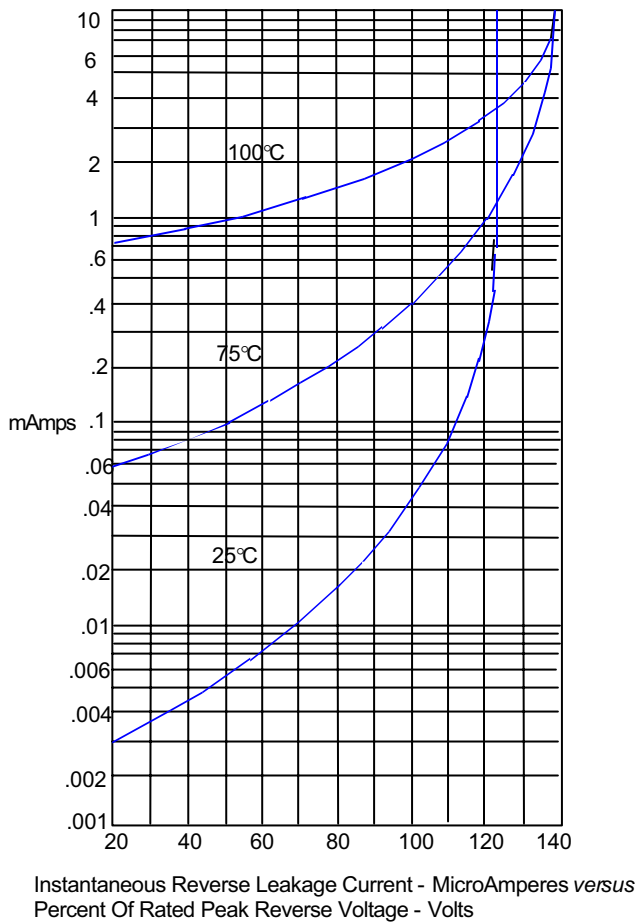


Fig.3 TYPICAL REVERSE CHARACTERISTIC

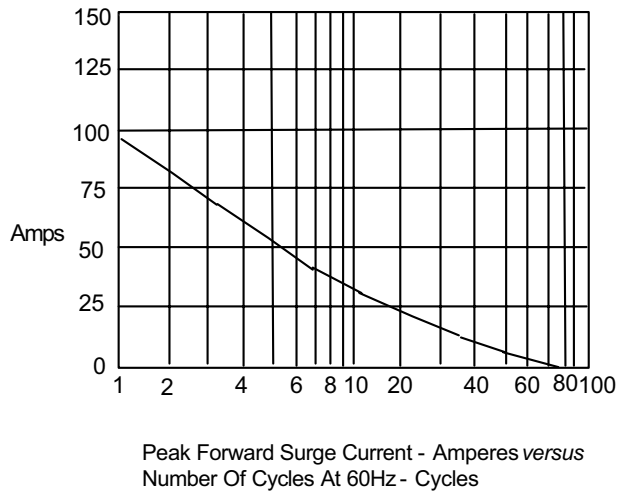


Fig.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

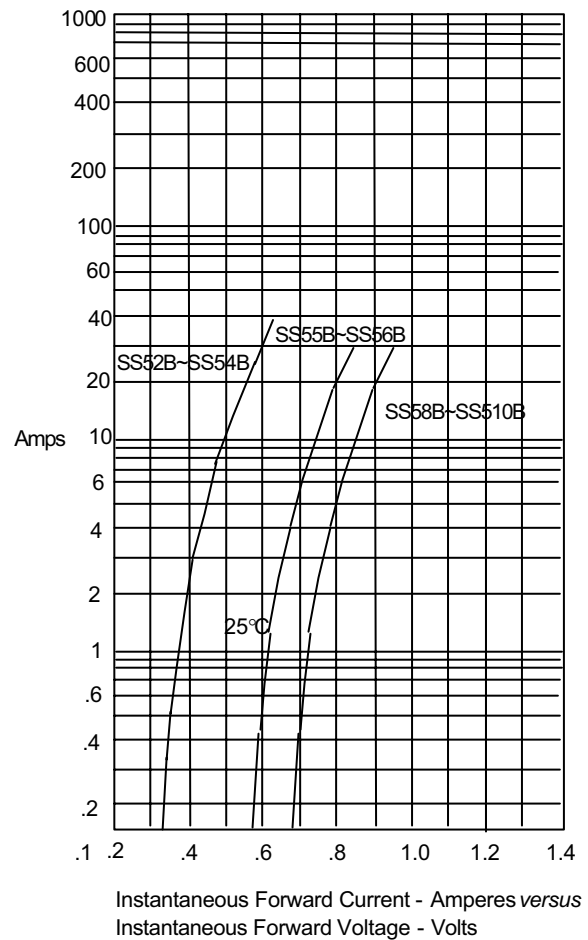


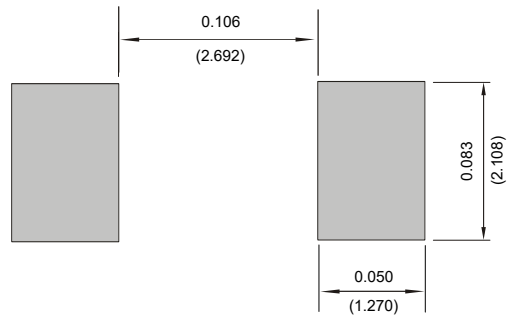
Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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MOUNTING PAD LAYOUT

SMB / DO-214AA

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SS52B~SS510B	SMB	13 Inch	3000