



# SS52B THRU SS5200B

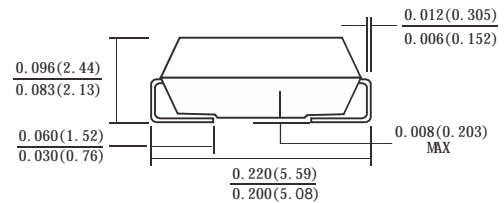
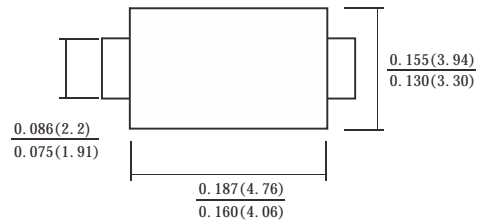
## Surface Mount Schottky Rectifiers

### Features

- Low profile package
- Ideal for automated placement
- Fast switching for high efficiency
- High forward surge capability
- High temperature soldering:  
260°C/10 seconds at terminals
- Component in accordance to  
RoHS 2002/95/1 and WEEE 2002/96/EC



SMB(DO-214AA)



Dimensions in inches and (millimeters)

### Mechanical Date

- **Case:** JEDEC DO-214AA molded plastic body
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end

### Maximum Ratings and Electrical Characteristics Rating at 25 °C

ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	SYMBOL	SS 52B	SS 54B	SS 545B	SS 56B	SS 58B	SS 510B	SS 5150B	SS 5200B	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	40	45	60	80	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	14	28	31	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	45	60	80	100	150	200	V
Average Rectified Output Current @ $T_L = 100^\circ\text{C}$	$I_{F(AV)}$	5.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150								A
Forward Voltage @ $I_F=5.0\text{A}$ (Note 1)	$V_{FM}$	0.55		0.7	0.85		0.95		V	
Peak Reverse Current @ $T_A=25^\circ\text{C}$	$I_R$	0.1				0.05				mA
At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$		10				5				
$I^2t$ Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2t$	41.5								$\text{A}^2\text{s}$
Typical Junction Capacitance (Note 2)	$C_J$	12								pF
Typical Thermal Resistance per leg (Note 3)	$R_{\theta JA}$	65								$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to +150								$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150								$^\circ\text{C}$

Note: 1. Pulse Test with  $PW=300\mu\text{sec}$ , 1% Duty Cycle.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. Thermal Resistance from Junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.



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### Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Forward Current Derating Curve

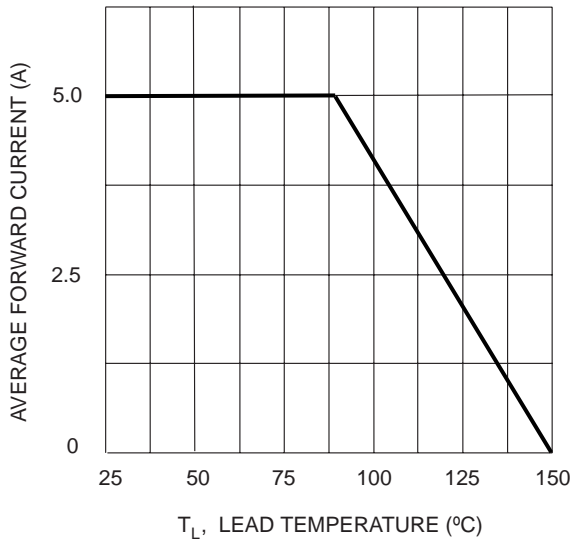


Fig. 2 Typ. Forward Characteristics

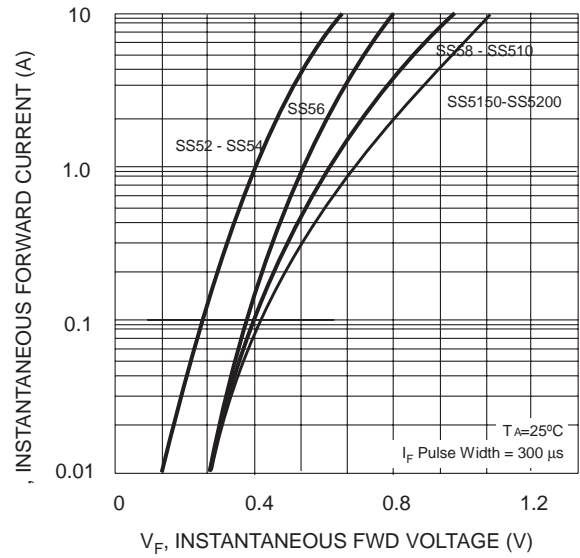


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

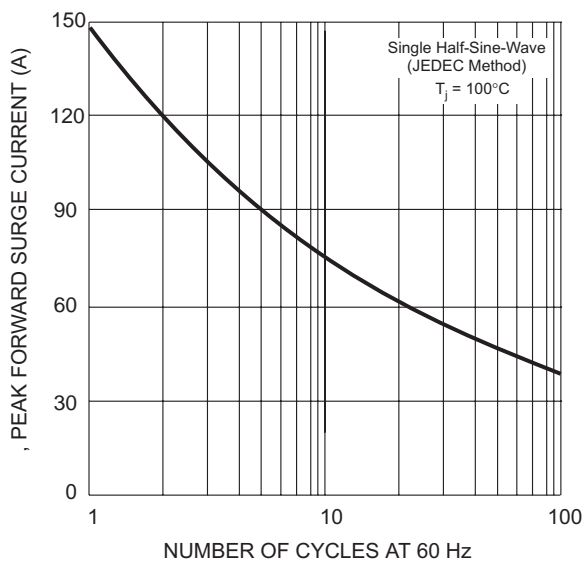


FIG.4 TYPICAL REVERSE CHARACTERISTIC

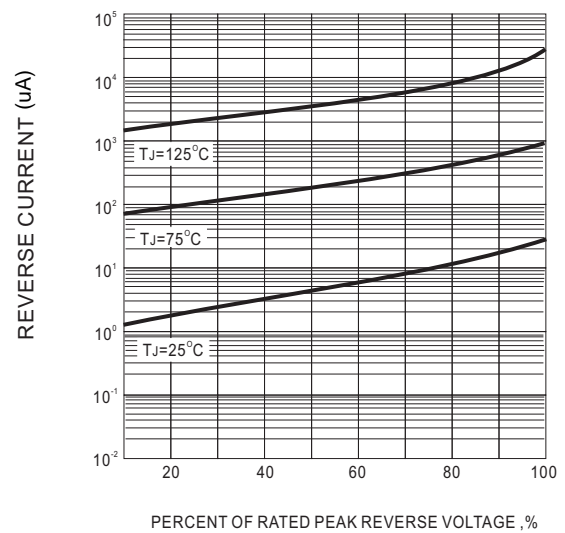
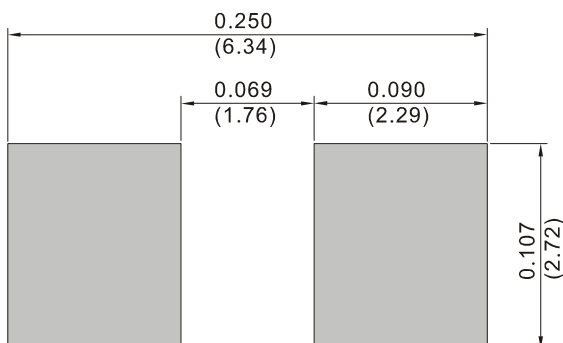


FIG.5 MOUNTING PAD LAYOUT



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