

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

SS3150B--SS3200B

FEATURES

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop, low switching losses
- High surge capacity
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications



MECHANICAL DATA

- Case: SMB molded plastic body
- Terminals: Axial lead ,solderable per MIL-STD750, Method 2026
- Polarity: As marked

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	SS3150B	SS3200B	UNITS
Marking code		SS3CB	SS3DB	
Maximum repetitive peak reverse voltage	V_{RRM}	150	200	V
Maximum RMS voltage	V_{RWS}	105	140	V
Maximum DC blocking voltage	V_{DC}	150	200	V
Maximum average forward rectified current at $T_L=110^\circ\text{C}$	$I_{F(AV)}$	3.0		A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	100		A

Thermal Characteristics

Characteristic	Symbol	SS3150B	SS3200B	UNITS
Maximum thermal resistance	$R_{\theta JA}$	55		$^\circ\text{C/W}$
Typical Junction Capacitance	C_J	300		PF
Operating temperature range	T_J	-55----+150		$^\circ\text{C}$
Storage temperature range	T_{STG}	-55----+150		$^\circ\text{C}$

Electrical Characteristics (@TA = 25°C unless otherwise specified)

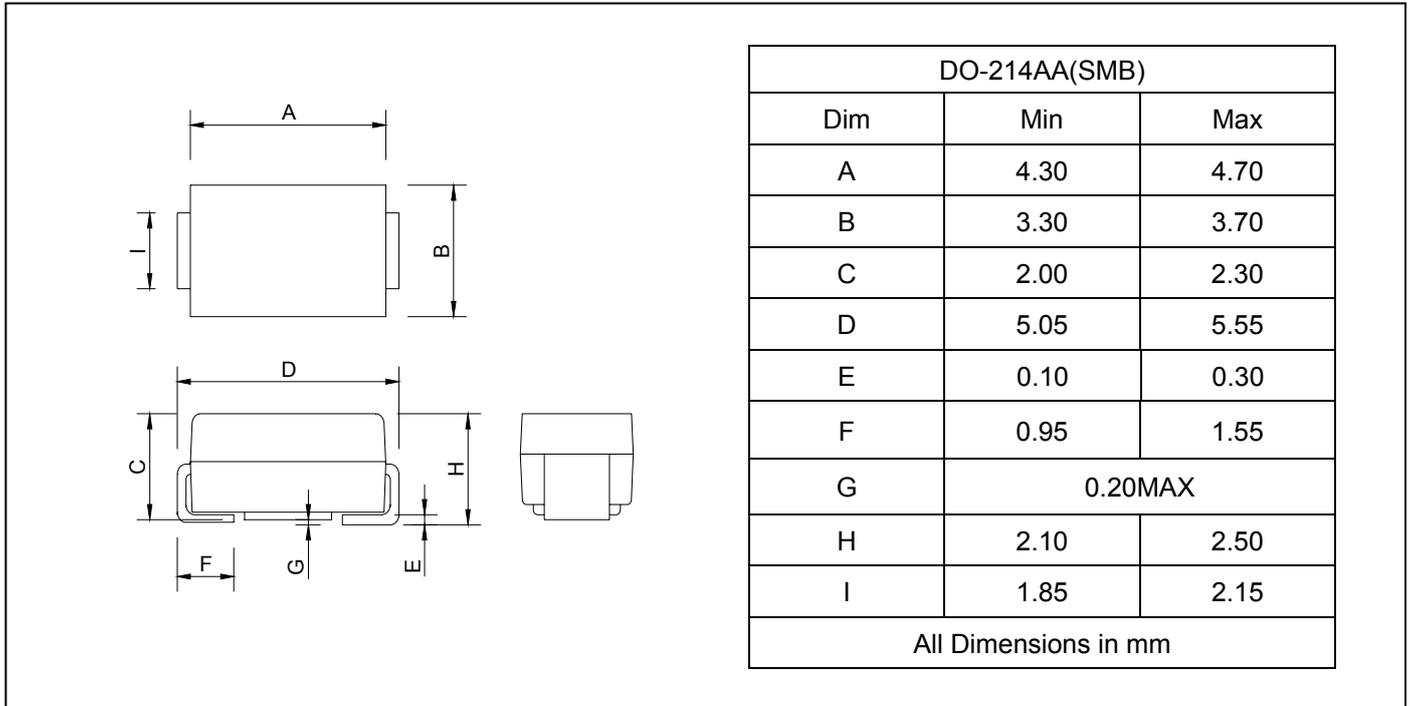
Characteristic	Symbol	SS3150B	SS3200B	UNITS
Maximum instantaneous forward voltage at $I_{FM}=3.0\text{A}$	V_F	0.95		V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	I_R	0.1	10	m A



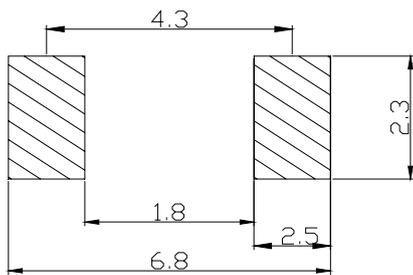
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BARRIER RECTIFIERS**

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PACKAGE OUTLINE DIMENSIONS



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
SS3150B--SS3200B	DO-214AA(SMB)	3000/Tape&Reel



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FIG.1 TYPICAL FORWARD CHARACTERISTICS

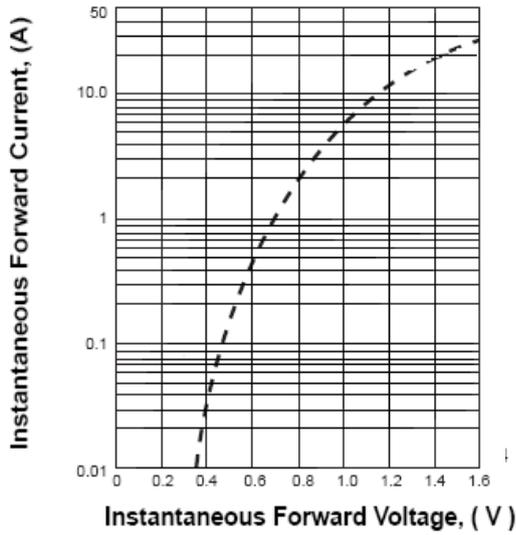


FIG.2 FORWARD DERATING CURVE

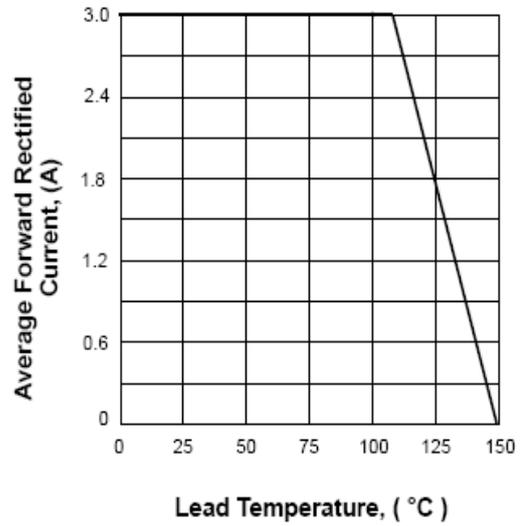


FIG.3 TYPICAL REVERSE CHARACTERISTICS

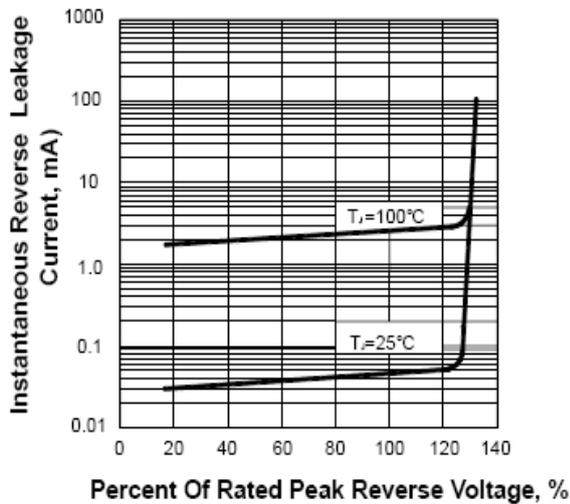


FIG.4 PEAK FORWARD SURGE CURRENT

