

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

SS5150C--SS5200C

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: SMC 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	SS5150C	SS5200C	UNITS
Marking code		SS5CC	SS5DC	
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 $T_L=110^{\circ}\text{C}$	$I_{F(AV)}$	5.0		A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	150		A

Thermal Characteristics

Characteristic	Symbol	SS5150C	SS5200C	UNITS
Typical thermal resistance (NOTE1)	R _{θJa}	57		℃/W
	R _{θJC}	29		
	R _{θJL}	19		
Operating temperature range	T _J	-55-----+150		℃
Storage temperature range	T _{STG}	-55-----+150		℃

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

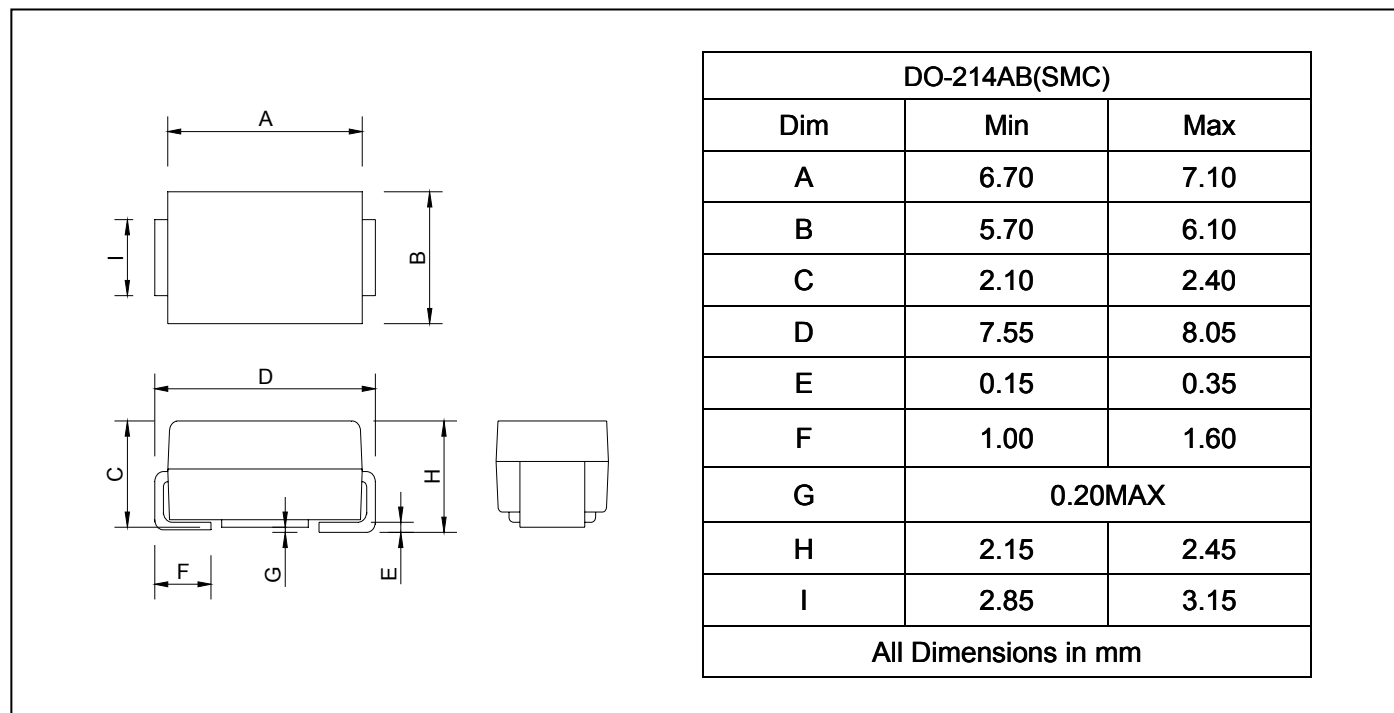
Characteristic	Symbol	SS5150C	SS5200C	UNITS
Maximum instantaneous forward voltage at I _{FM} =5.0A	V _F	0.95		V
Maximum DC reverse current at rated DC blocking voltage	I _R	0.1		m A
T _A =25°C T _A =100°C		10		

NOTE: (1) Device mounted on PCB with 15mm x 25 mm copper pad areas

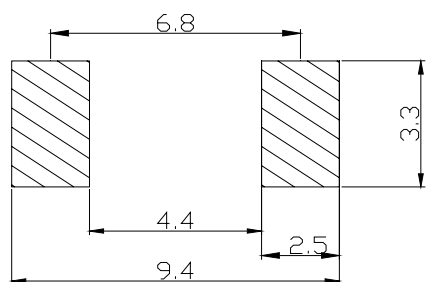
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PACKAGE OUTLINE DIMENSIONS



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
SS5150C--SS5200C	DO-214AB(SMC)	3000/Tape&Reel



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Fig.1-Forward Derating Curve

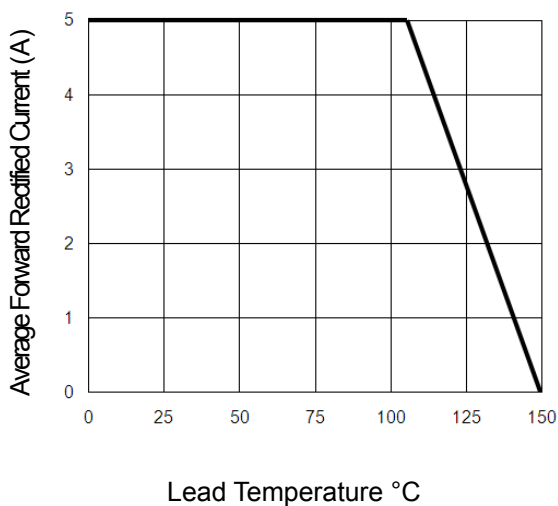


Fig.2-Peak Forward Surge Current

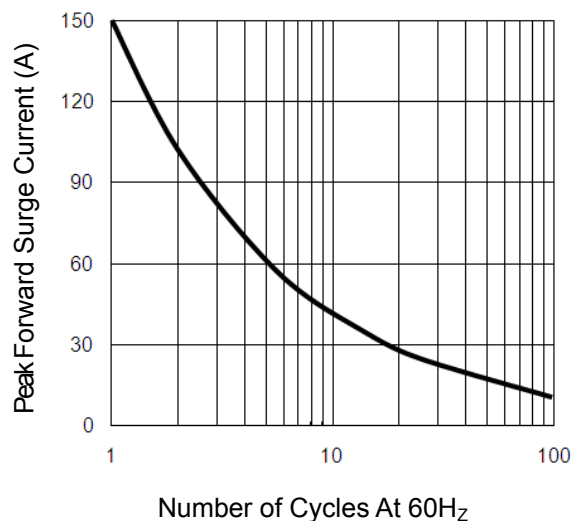


Fig.3-Typical Forward Voltage Characteristic

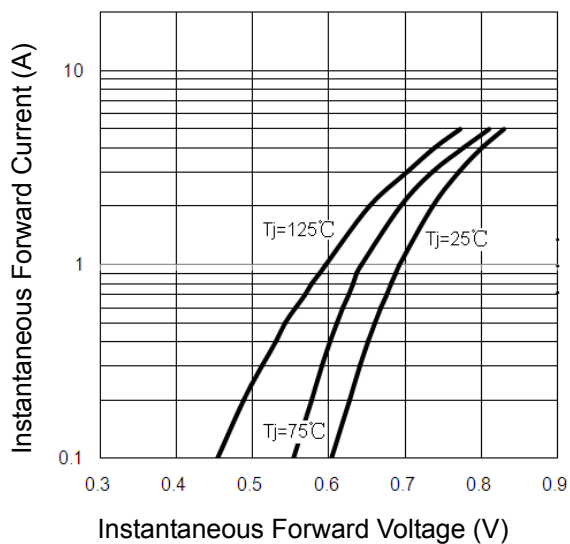


Fig.4-Typical Reverse Characteristic

