

**SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIERS**

SS3150A--SS3200A

FEATURES

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



MECHANICAL DATA

- Case: SMA molded plastic body
- Polarity: Color band denotes cathode end
- Mounting position: ANY

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

Characteristic	Symbol	SS3150A	SS3200A	UNITS
Marking code		SS3CA	SS3DA	
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 _J =110°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	SS3150A	SS3200A	UNITS
Operating temperature range	T _J	-55-----+150		°C
Storage temperature range	T _{STG}	-55-----+150		°C

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

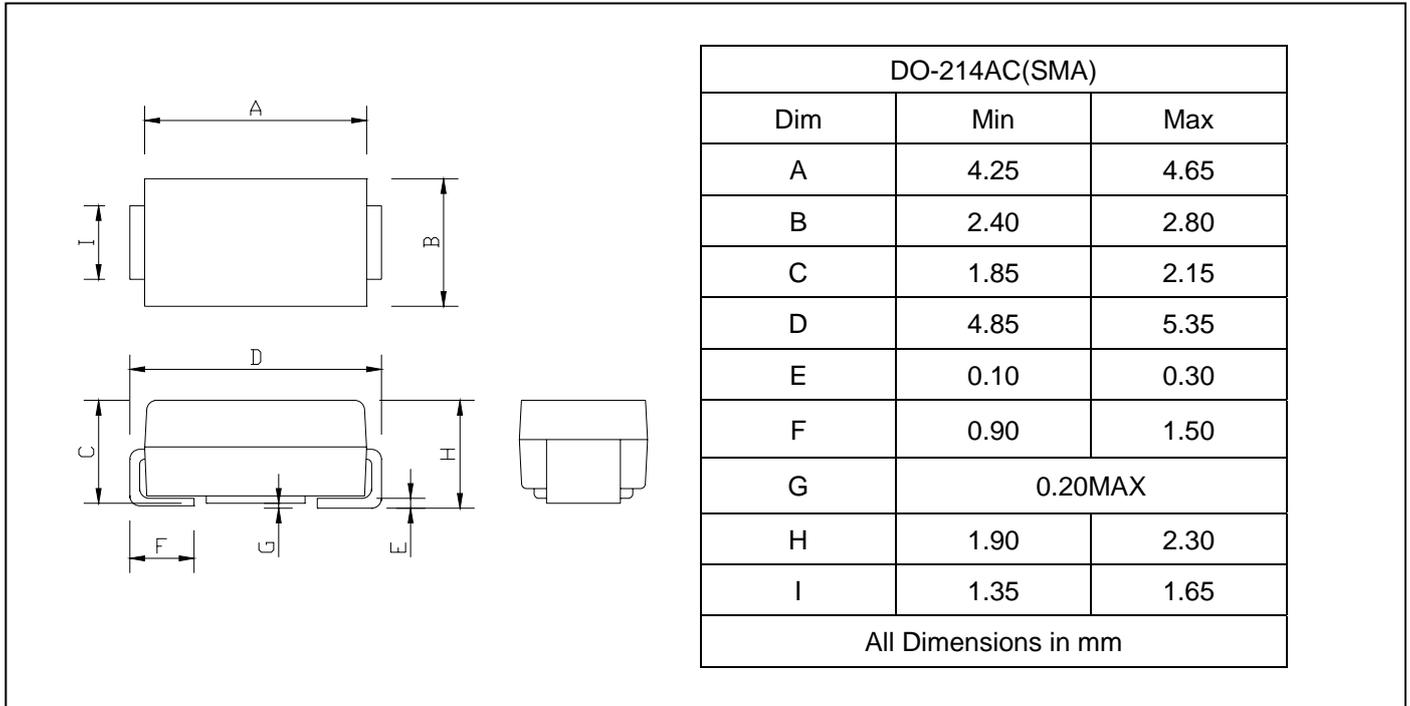
Characteristic	Symbol	SS3150A	SS3200A	UNITS
Maximum instantaneous forward voltage at I _{FM} =3.0A	V _F	0.95		V
Maximum DC reverse current T _J =25°C at rated DC blocking voltage T _J =125°C	I _R	0.1	5.0	m A



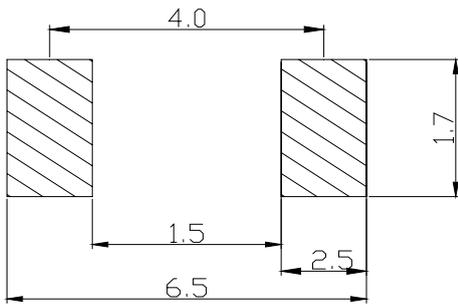
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PACKAGE OUTLINE DIMENSIONS



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
SS3150A --SS3200A	DO-214AC(SMA)	5000/Tape&Reel



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FIG.1 TYPICAL FORWARD CHARACTERISTICS

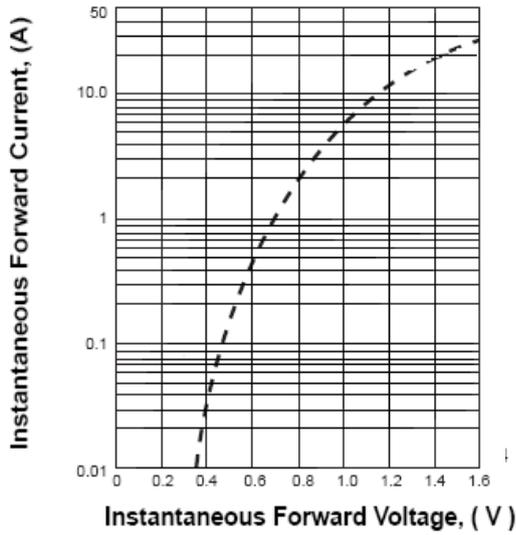


FIG.2 FORWARD DERATING CURVE

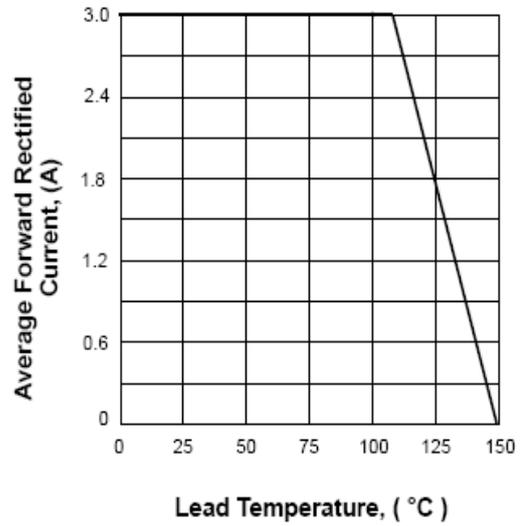


FIG.3 TYPICAL REVERSE CHARACTERISTICS

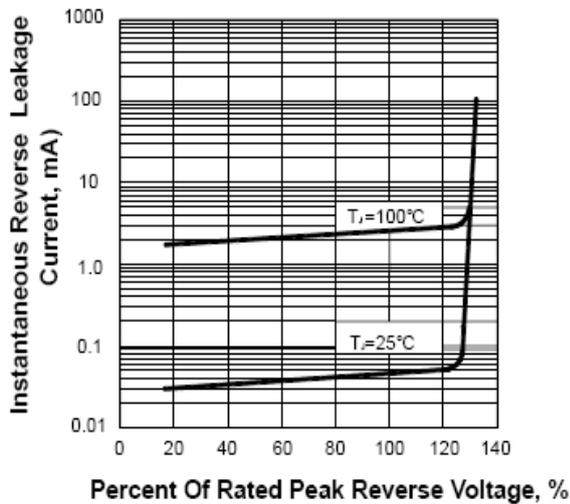


FIG.4 PEAK FORWARD SURGE CURRENT

