

**SURFACE MOUNT SCHOTTKY  
BARRIER RECTIFIERS**
**SS1150-- SS1200**
**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: SMA 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	SS1150	SS1200	UNITS
Device marking code		SS1150	SS1200	
Maximum repetitive peak reverse voltage	$V_{RRM}$	150	200	V
Maximum RMS voltage	$V_{RWS}$	135	140	V
Maximum DC blocking voltage	$V_{DC}$	150	200	V
Maximum average forward rectified current at $T_L=110^\circ\text{C}$	$I_{F(AV)}$	1.0		A
Peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	35		A

**Thermal Characteristics**

Characteristic	Symbol	SS1150	SS1200	UNITS
Typical thermal resistance (NOTE 1)	$R_{\theta JA}$	88		$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	28		
Typical junction capacitance (NOTE 2)	$C_J$	90		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	SS1150	SS1200	UNITS
Maximum instantaneous forward voltage at $I_{FM}=1.0\text{A}$	$V_F$	0.95		V
Maximum DC reverse current at rated DC blocking voltage	$I_R$	$T_J=25^\circ\text{C}$	0.1	mA
		$T_J=100^\circ\text{C}$	10	

Note: 1、 P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

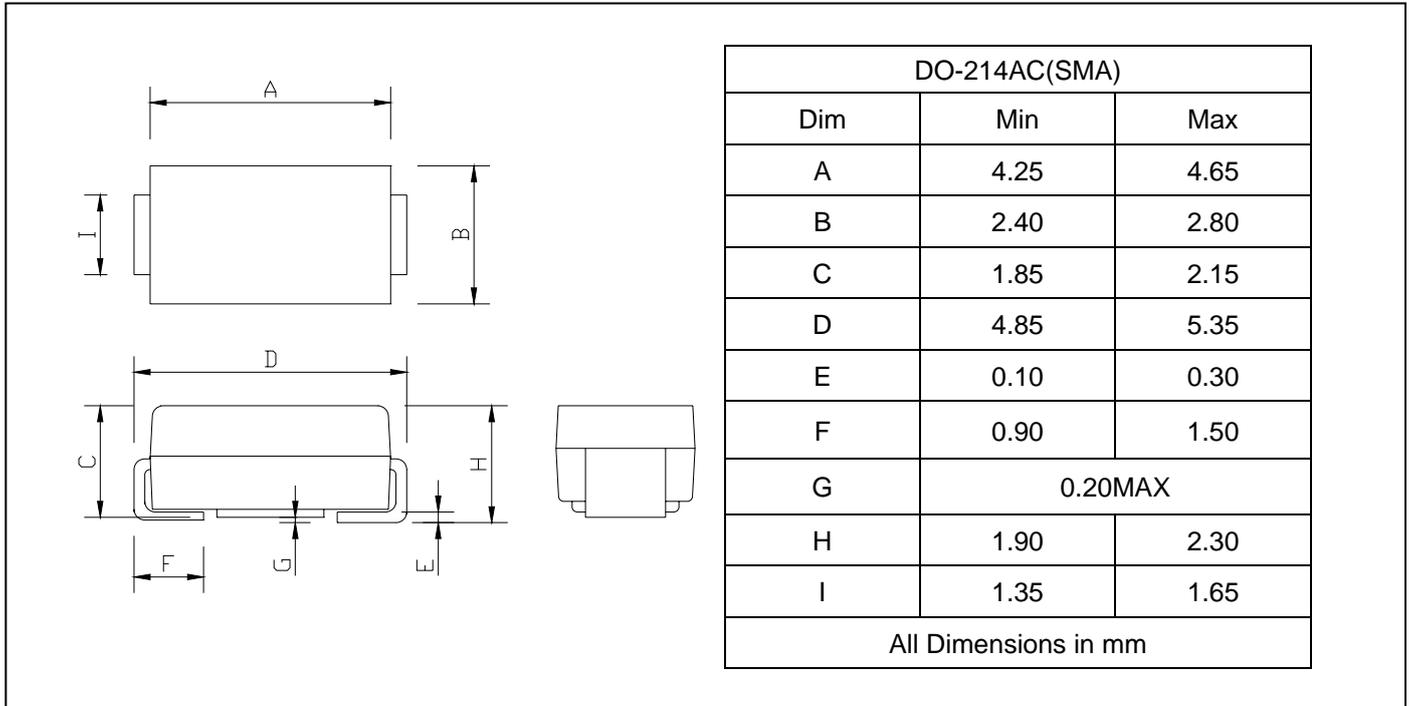
2、 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C



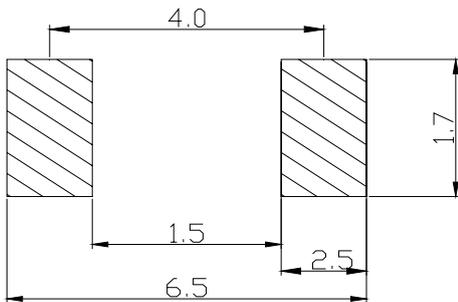
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**PACKAGE OUTLINE DIMENSIONS**



**SOLDERING FOOTPRINT**



Unit : mm

**PACKAGE INFORMATION**

Device	Package	Shipping
SS1150--SS1200	DO-214AC(SMA)	5000/Tape&Reel



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**SS1150-- SS1200**

FIG.1 TYPICAL FORWARD CHARACTERISTICS

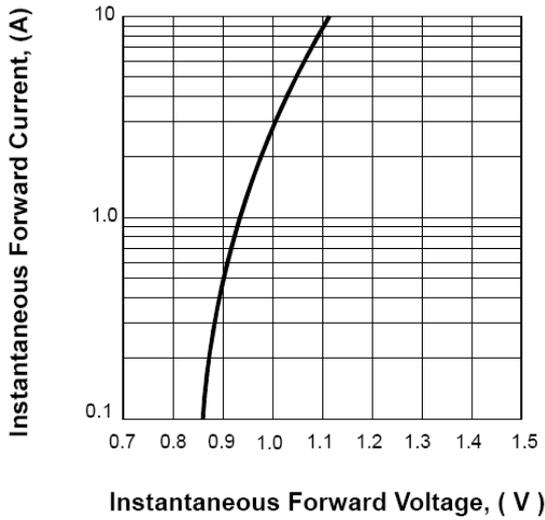


FIG.2 FORWARD DERATING CURVE

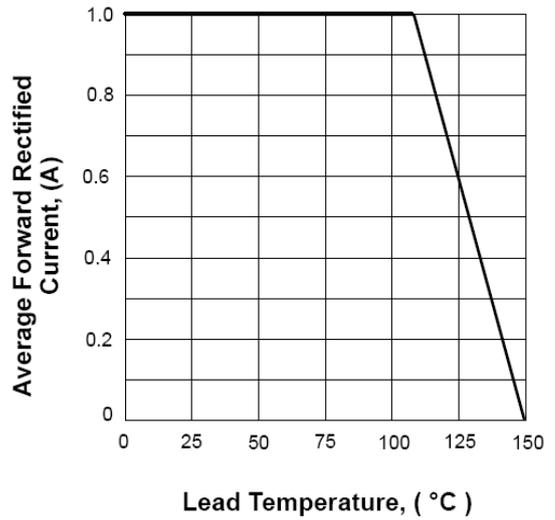


FIG.3 TYPICAL REVERSE CHARACTERISTICS

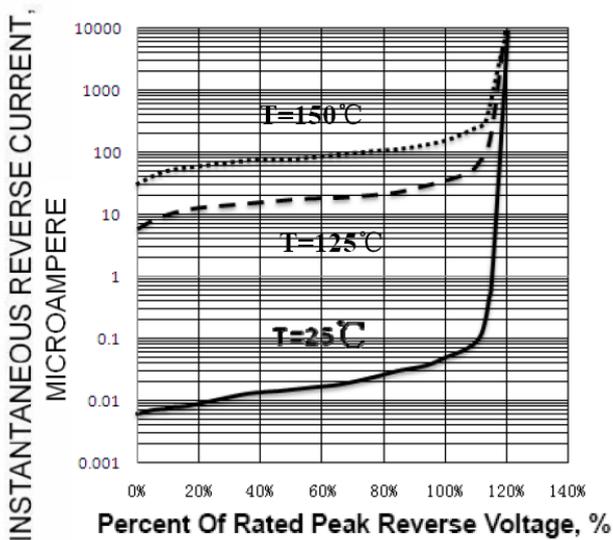


FIG.4 PEAK FORWARD SURGE CURRENT

