



### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Voltage

20~60 V

Current

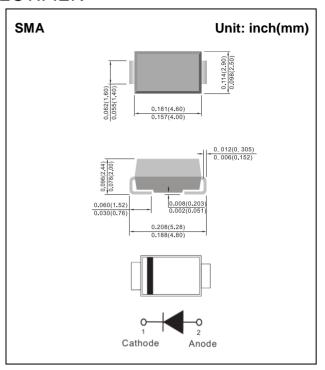
1 A

#### **Features**

- Plastic package has Underwriters Laboratory
   Flammability Classification 94V-O.
- For surface mounted applications in order to optimize board space
- Low power loss, High efficiency
- High surge capacity
- High current capacity, low V<sub>F</sub>
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive).
- Green molding compound as per IEC61249 Std..(Halogen Free)

### Mechanical Data

- Case: SMA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Approx. Weight: 0.0023 ounces, 0.0679 grams



# Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER		SYMBOL	SS12	SS13	SS14	SS15	SS16	UNIT
Maximum repetitive peak reverse voltage		$V_{RRM}$	20	30	40	50	60	<b>V</b>
Maximum rms voltage		$V_{RMS}$	14	21	28	35	42	٧
Maximum dc blocking voltage		$V_R$	20 30 40 50 60		٧			
Maximum average forward current	I <sub>F(AV)</sub>	1					Α	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I <sub>FSM</sub>	30				Α	
aximum forward voltage at 1A		V <sub>F</sub>	0.5 0.7			.7	>	
Maximum dc reverse current at rated dc blocking voltage (Note 1)	T <sub>J</sub> =25 °C	I <sub>R</sub>	0.2		0.1		mA	
	T <sub>J</sub> =100 °C		6			5		
Typical Junction Capacitance (V <sub>R</sub> =4V f=1MHZ)		CJ		70		50		pF
	(Note 2)	$R_{\theta JL}$	28					
Typical thermal resistance	(Note 2)	$R_{\theta JA}$	88			°C/W		
	(Note 3)	$R_{\theta JA}$	150					
perating junction temperature range		TJ	-55 to +125 -55 to +150		0	°C		
Storage temperature range		T <sub>STG</sub>	-55 to +150			°C		

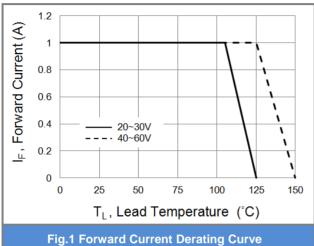
Note: 1. Short duration pulse test used to minimize self-heating effect.

- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area
- 3. Mounted on a FR4 PCB, single-sided copper, mini pad.





#### **TYPICAL CHARACTERISTIC CURVES**



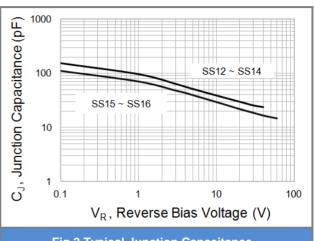


Fig.2 Typical Junction Capacitance

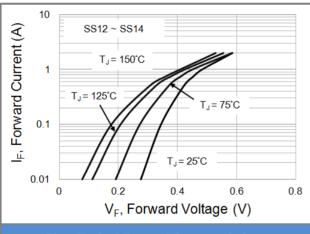


Fig.3 Typical Forward Characteristics

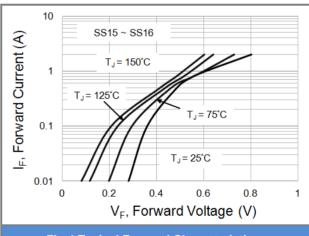
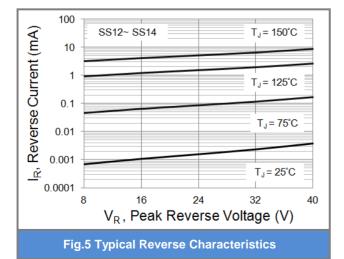
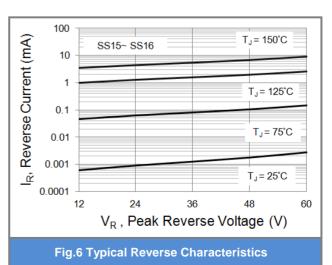


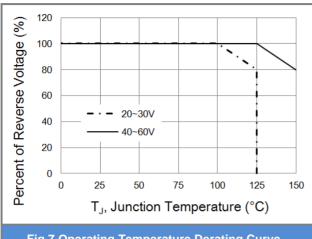
Fig.4 Typical Forward Characteristics











**Fig.7 Operating Temperature Derating Curve** 

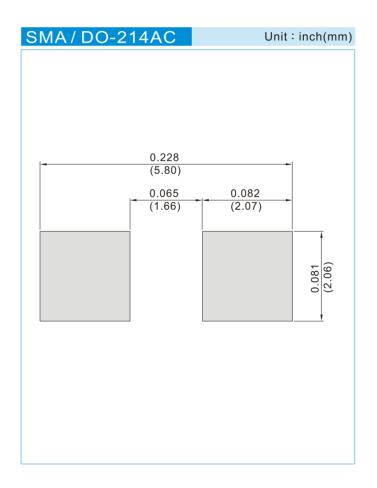




### **Part No Packing Code Version**

Part No Packing Code	Package Type	Packing Type	Marking	Version	
SS12_R1_00001	SMA	1,800pcs / 7" reel	SS12	Halogen free	
SS12_R2_00001	SMA	7,500pcs / 13" reel	SS12	Halogen free	

## **Mounting Pad Layout**







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