



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Voltage

20~60 V

Current

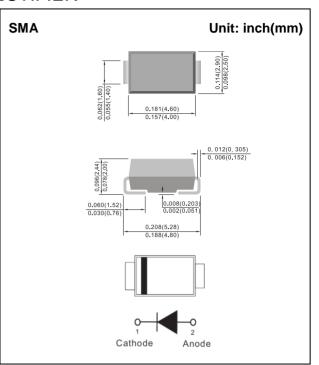
1 A

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_F
- 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_A=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	V
Maximum rms voltage		V_{RMS}	14	21	28	35	42	V
Maximum dc blocking voltage		V _R	20	30	40	50 60		V
Maximum average forward current	I _{F(AV)}	1					Α	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	30				Α	
Maximum forward voltage at 1A		V _F	0.5 0.7			.7	V	
Maximum dc reverse current at rated dc blocking voltage (Note 1)	T _J =25 °C	I _R	0.2			0.1 5		mA
	T _J =100 °C		6					
Typical Junction Capacitance (V _R =4V f=1MHZ)		CJ		70		50		pF
	(Note 2) R _{BJL}				28			
Typical thermal resistance	(Note 2)	$R_{\theta JA}$	88			°C/W		
	(Note 3)	R _{θJA}	150					
Operating junction temperature range		TJ	T _J -55 to +125 -55 to +150		0	°C		
Storage temperature range		T _{STG}	-55 to +150			°C		

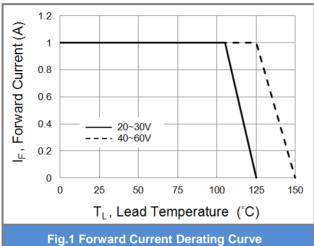
Note: 1. Short duration pulse test used to minimize self-heating effect.

- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
- 3. Mounted on a FR4 PCB, single-sided copper, mini pad.





TYPICAL CHARACTERISTIC CURVES



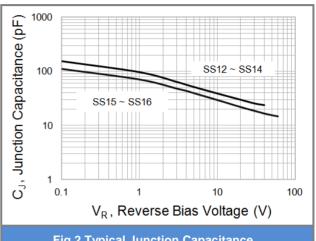


Fig.2 Typical Junction Capacitance

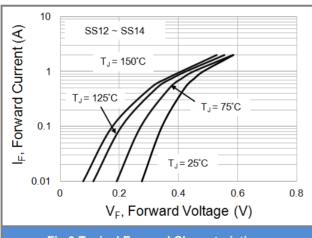


Fig.3 Typical Forward Characteristics

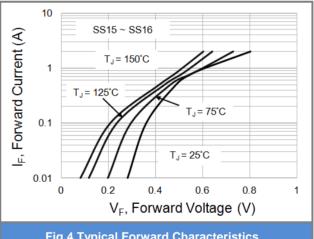
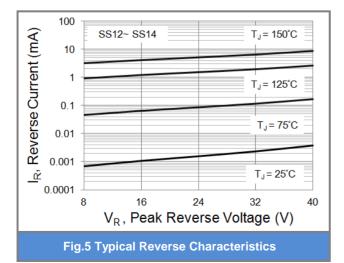
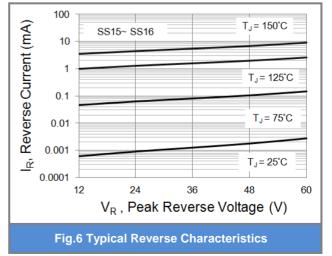


Fig.4 Typical Forward Characteristics









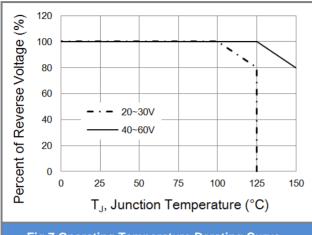


Fig.7 Operating Temperature Derating Curve

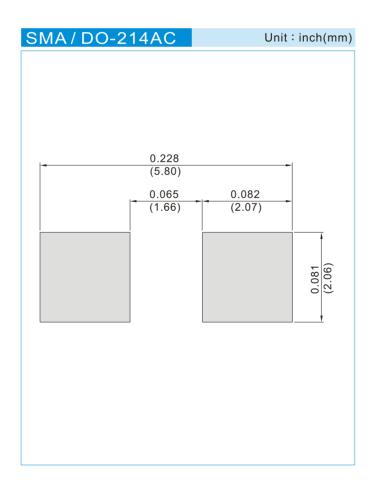




Part No Packing Code Version

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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