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	SEMI CONDUCTOR



SS12~SS16 SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER 20~60 V Voltage Current 1 A SMA Unit: inch(mm) Features 114(2.90) Plastic package has Underwriters Laboratory • Flammability Classification 94V-O. 0.062(1 For surface mounted applications in order to optimize board space • 0.181(4.60) Low power loss, High efficiency High surge capacity • 0.012(0.305) 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) 0.060(1.52) 0.208(5.28) Mechanical Data Case: SMA molded plastic • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end ٠ Standard packaging : 12mm tape (EIA-481) Approx. Weight: 0.0023 ounces, 0.0679 grams • Cathode Anode

Maximum Ratings ($T_A=25^{\circ}C$ unless otherwise noted)

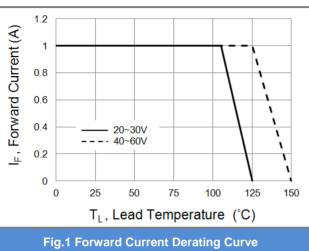
PARAMETER		SYMBOL	SS12	SS13	SS14	SS15	SS16	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	20	30	40	50	60	V
Maximum rms voltage		V _{RMS}	14	21	28	35	42	V
Maximum dc blocking voltage			20	30	40	50	60	V
Maximum average forward current			1					А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	30				А	
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		0.2 6			0	.1	
	T _J =100 °C	I _R				Į	5	mA
Typical Junction Capacitance ($V_R = 4V f = 1MHZ$)		CJ	70		5	0	pF	
	(Note 2)	$R_{\theta JL}$	28					
Typical thermal resistance	(Note 2)	$R_{\theta JA}$	88			°C/W		
	(Note 3)	R _{0JA}	150					
Operating junction temperature range		TJ	-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.

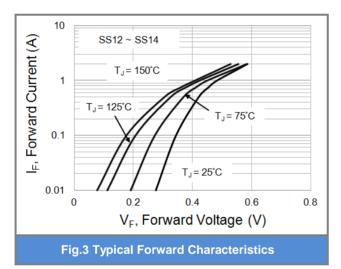
2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area

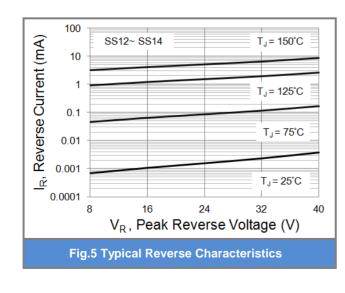
3. Mounted on a FR4 PCB, single-sided copper, mini pad.

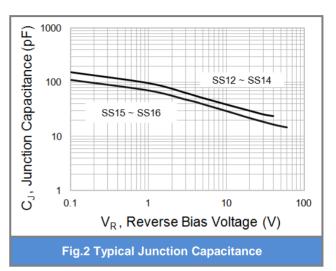


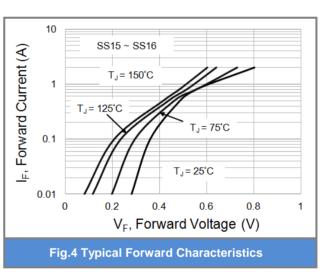


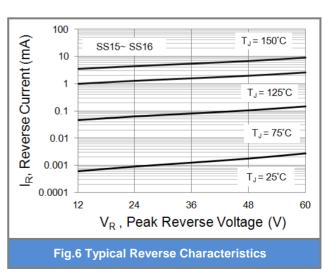
TYPICAL CHARACTERISTIC CURVES





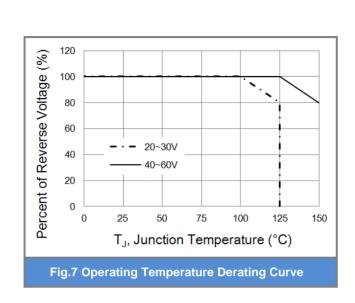












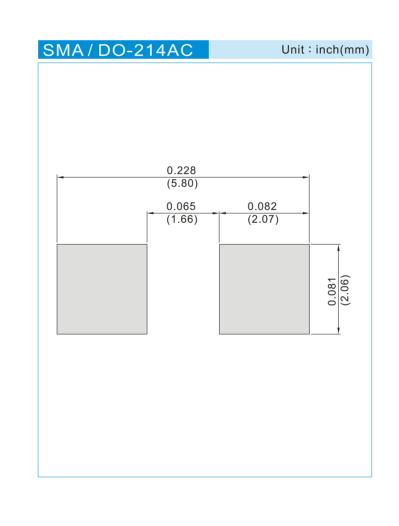




Part No Packing Code Version

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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