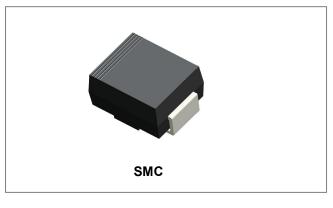


S5AC-S5MC

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S5AC THRU S5MC SURFACE MOUNT GLASS PASSIVATED RECTIFIER



Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

- Case: SMC molded plastic
- Lead: Solder Plated , Solderable Per MIL-STD 750 ,Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.21 grams

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristics	Symbol	S5AC	S5BC	S5DC	S5GC	S5JC	S5KC	S5MC	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current @TL= 75°C	lo				5.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100			А				
Forward Voltage @ $I_F = 5.0 A$	VF	1.15			V				
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	I _{RM}	10 250		μA					
Typical Junction Capacitance(Note2)	CJ	40		pF					
Typical Thermal Resistance Junction to Lead (Note 3)	R _{ejl}	10		°C/W					
Operating and Storage Temperature Range	T _J ,T _{STG}	-65 to +150		°C					

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Mounted on P.C.B. with 8.0mm² land areas.

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Circuit Diagram



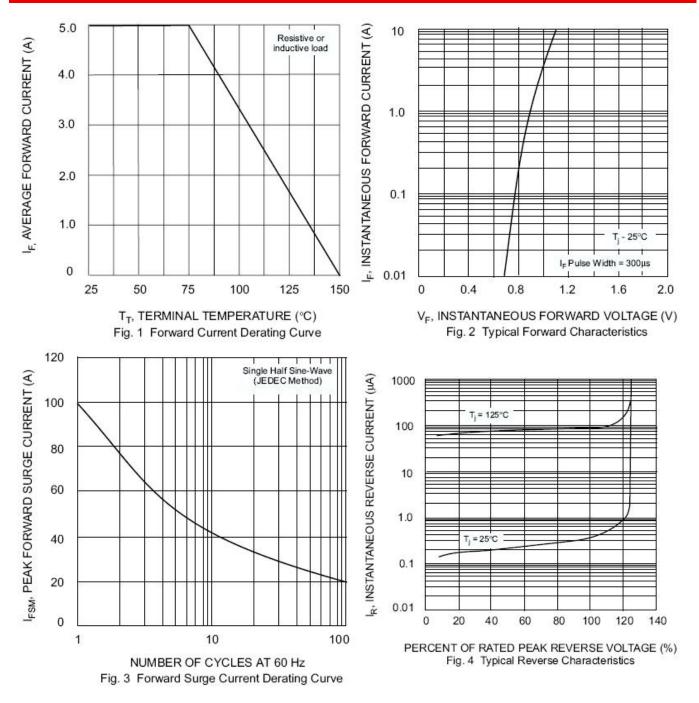


S5AC-S5MC

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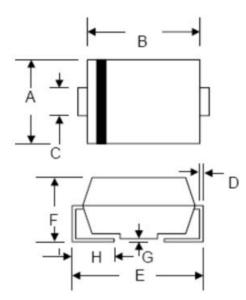
Ratings and Characteristics Curves





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Mechanical Dimensions SMC



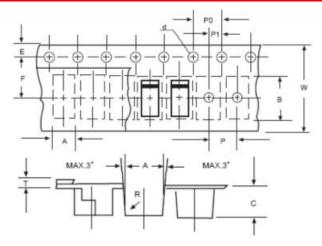
	Millir	neters	Inches			
SYMBOL	Min.	Max.	Min.	Max.		
А	5.59	6.22	0.220	0.245		
В	6.60	7.11	0.260	0.280		
С	2.90	3.20	0.114	0.126		
D	0.152	0.305	0.006	0.012		
E	7.75	8.13	0.305	0.320		
F	2.00	2.62	0.079	0.103		
G	-	0.203	-	0.008		
Н	0.76	1.52	0.030	0.060		

Ordering Information

Device	Package	Shipping
S5AC-S5MC	SMC (Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Carrier Tape Specification SMC



S5AC

XXXXX

Marking Diagram

Where XXXXX is YYWWL

S5AC

YY

L

ww

= Part Name

= Year = Week

= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

SYMBOL	Millimeters				
SYMBOL	Min.	Max.			
А	5.90	6.10			
В	8.20	8.40			
С	2.40	2.60			
d	1.40	1.60			
E	1.40	1.60			
F	7.60	7.70			
Р	7.90	8.10			
P0	3.90	4.10			
P1	3.90	4.10			
Т	-	0.600			
W	15.80	16.20			

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S5AC-S5MC





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