

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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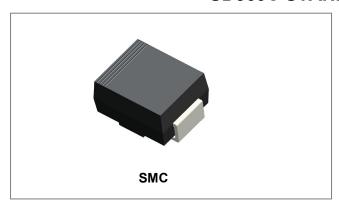








SD560C STANDARD RECTIFIER



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

Circuit Diagram



Mechanical Data

- Case: Molded Plastic
- Terminals: Solder Plated , Solderable Per MIL-STD
 - 750 ,Method 2026
- Polarity: Cathode Band or Cathode Notch
- Weight: 0.21 grams

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

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SD560C	Units
Maximum Peak Repetitive Reverse Voltage Maximum DC Blocking Voltage	V _{RRM} V _R	600	V
Maximum RMS Voltage	V _{RMS}	420	
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length @T _A = 75°C	I(AV)	5.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200	А
Maximum Instantaneous Forward Voltage @I _F = 5.0A	VF	1.2	V
Maximum DC Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _R	9.0 170	uA
Typical Junction Capacitance (Note 1)	Cj	50	pF
Typical Thermal Resistance (Note 2)	$R_{ heta JA}$	20	°C/W
Operating Storage Temperature Range	T _{STG}	-65 to +175	°C
Operating Junction Temperature	Tu	-65 to +175	°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

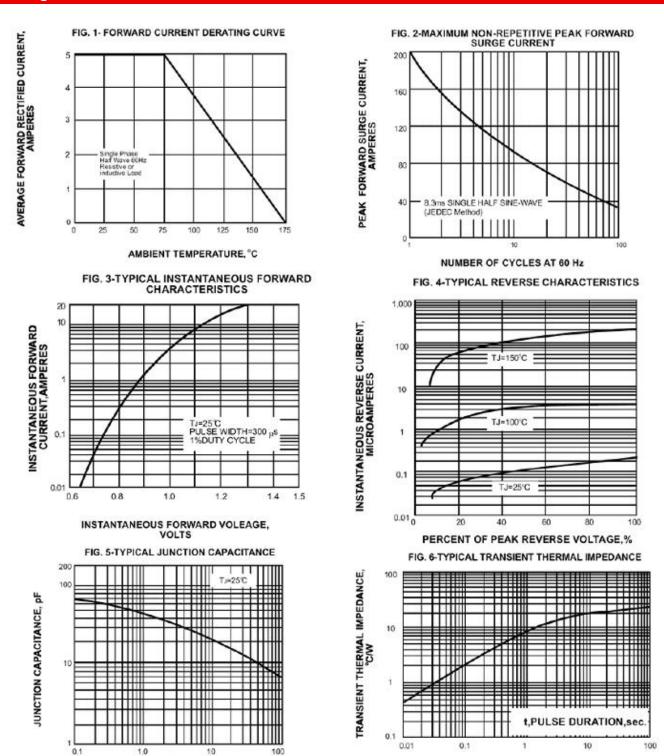
- 2. Thermal resistance form junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted
 - China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •







Ratings and Characteristics Curves



• China - Germany - Korea - Singapore - United States •

REVERSE VOLTAGE, VOLTS

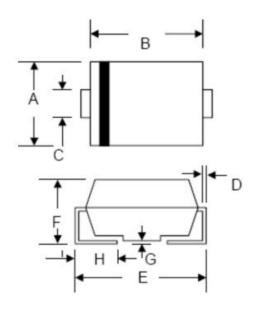
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Mechanical Dimensions SMC



CVMDOL	Millimeters		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
Е	7.75	8.25	0.305	0.325
F	2.00	2.95	0.079	0.116
G	-	0.203	-	0.008
Н	0.76	1.52	0.030	0.060

Ordering Information

Device	Package	Shipping
SD560C	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.

Marking Diagram



Where XXXXX is YYWWL

 SD560C
 = Part Name

 YY
 = Year

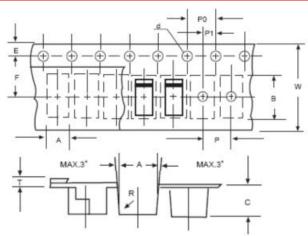
 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Carrier Tape Specification SMC



SYMBOL	Millimeters		
STIMBUL	Min.	Max.	
Α	5.90	6.10	
В	8.20	8.40	
С	2.40	2.60	
d	1.40	1.60	
Е	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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