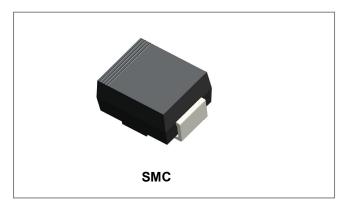






### SD560C STANDARD RECTIFIER



### **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 @T<sub>A</sub>=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 <sub>RRM</sub> V <sub>R</sub>	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length @T <sub>A</sub> = 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 <sub>FSM</sub>	200	А
Maximum Instantaneous Forward Voltage @I <sub>F</sub> = 5.0A	V <sub>F</sub>	1.2	V
Maximum DC Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	I <sub>R</sub>	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 <sub>STG</sub>	-65 to +175	°C
Operating Junction Temperature	TJ	-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 •



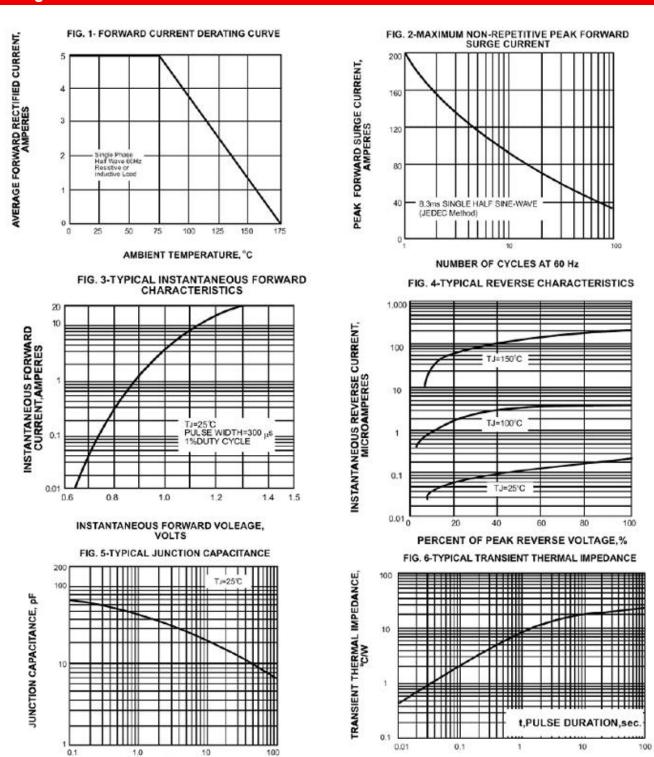




## **Ratings and Characteristics Curves**

1.0

REVERSE VOLTAGE, VOLTS



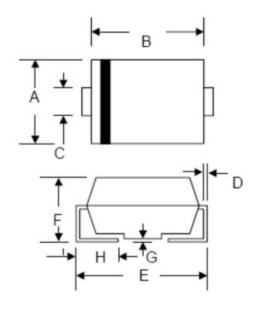
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## **Mechanical Dimensions SMC**



CVMPOL	Millimeters		Inches	
SYMBOL	Min.	Max.	Min.	Max.
Α	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

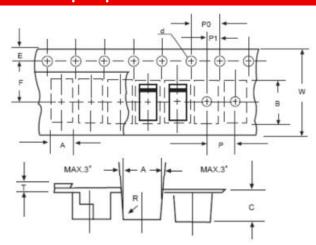
 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

# **Carrier Tape Specification SMC**



CVMPOL	Millimeters		
SYMBOL	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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