

**SD560BP STANDARD RECTIFIER**

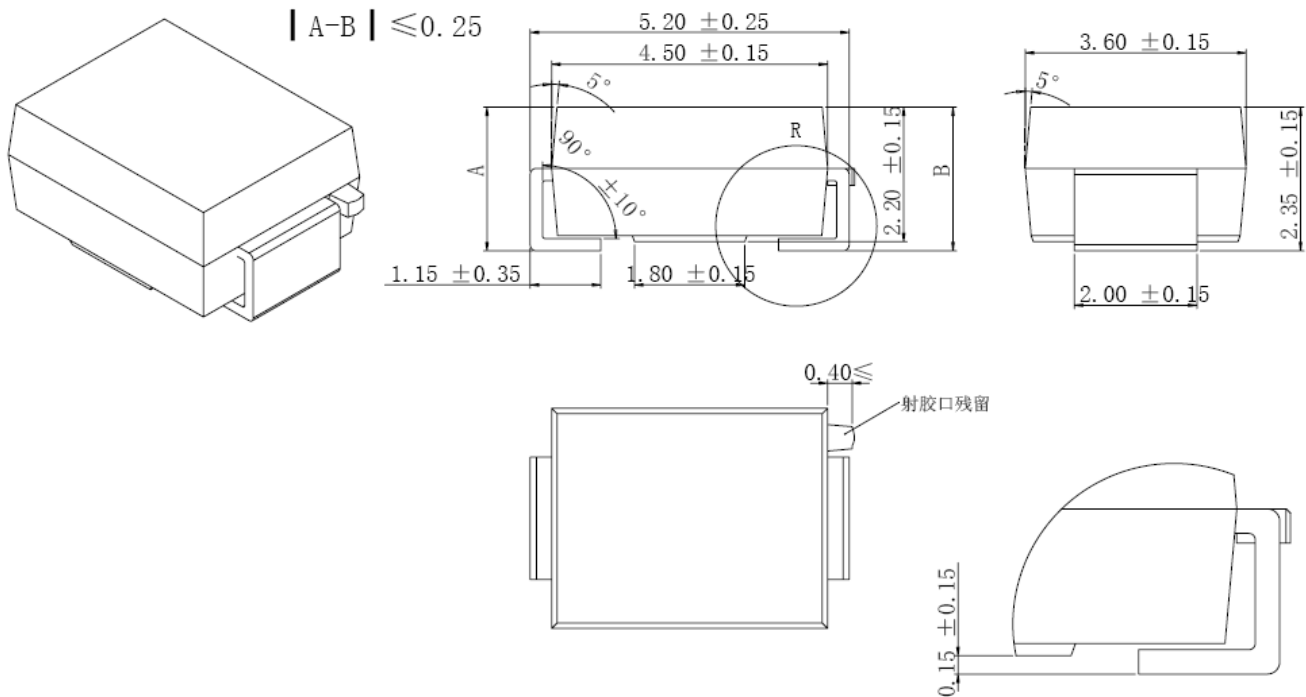
**Features:**

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 200A Peak
- Low Power Loss
- Built Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- 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: Molded Plastic
- Terminals: Solder Plated , Solderable Per MIL-STD 750 ,Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.68 grams(Approx)

**Mechanical Dimensions: In mm**



**SMB**

- China - Germany - Korea - Singapore - United States ●
- <http://www.smc-diodes.com> - [sales@smc-diodes.com](mailto:sales@smc-diodes.com) ●



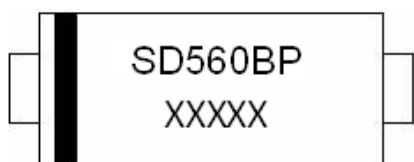
## SD560BP

Technical Data  
Data Sheet N1720, Rev. -

*Green Products*

### Marking Diagram:

Where XXXXX is YYWWL



SD560BP = Part Name  
YY = Year  
WW = Week  
L = Lot Number

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

### Ordering Information

Device	Package	Shipping
SD560BP	SMB (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.

- 
- China - Germany - Korea - Singapore - United States •
  - <http://www.smc-diodes.com> - [sales@smc-diodes.com](mailto:sales@smc-diodes.com) •



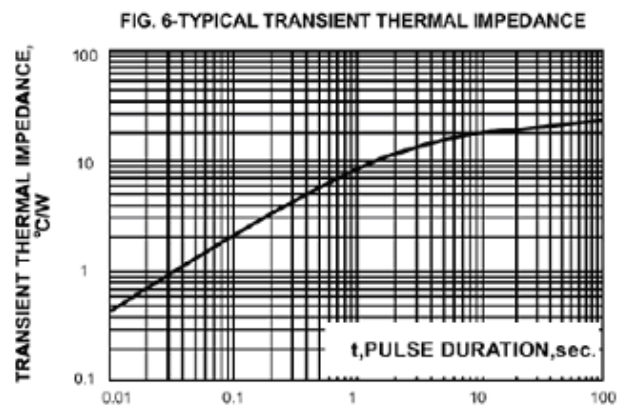
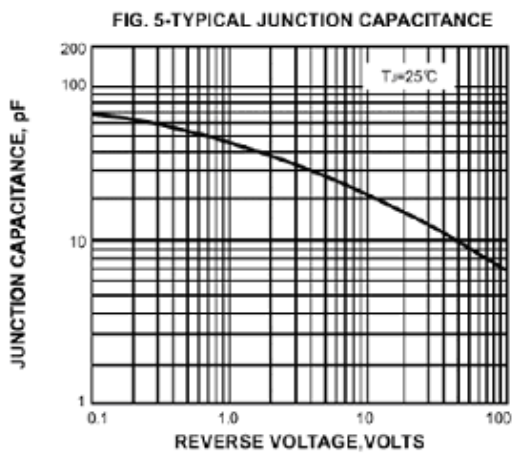
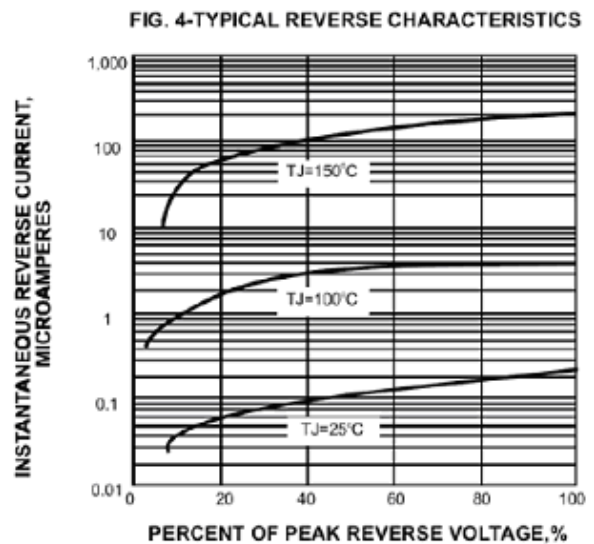
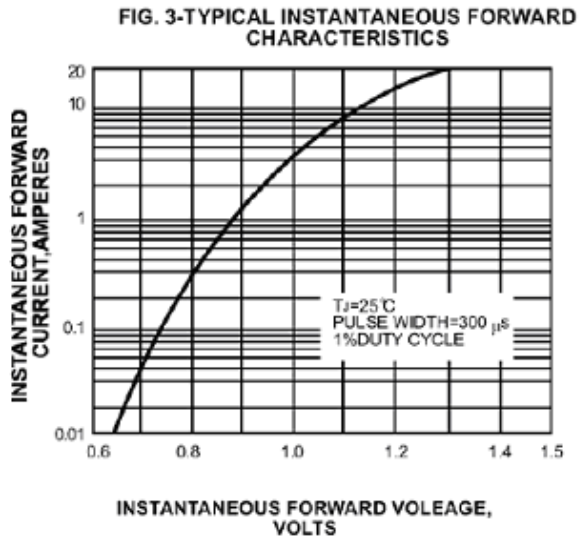
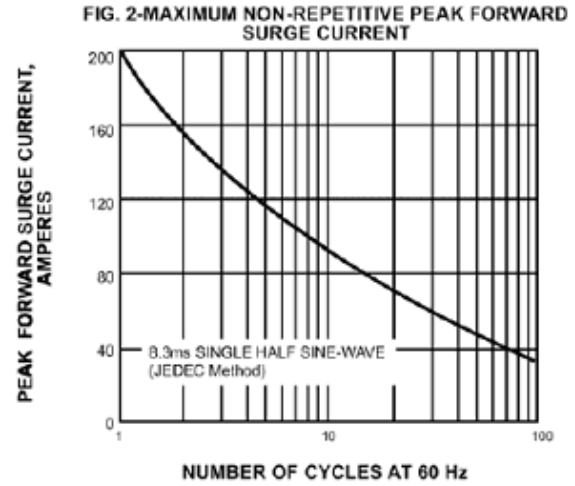
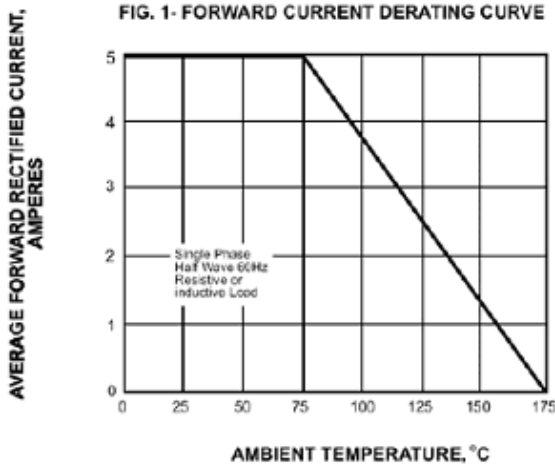
**Maximum Ratings and Electrical Characteristics** @T<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	SD560BP	Unit
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 <sub>A</sub> = 75°C	$I_{(AV)}$	5.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	200	A
I <sup>2</sup> t Rating for fusing (t < 8.3ms)	I <sup>2</sup> t	166	A <sup>2</sup> S
Maximum Instantaneous Forward Voltage @I <sub>F</sub> = 5.0A	$V_F$	1.2	V
Maximum DC Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	$I_R$	9.0 170	uA
Typical Junction Capacitance (Note 1)	$C_j$	50	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	20	°C/W
Operating Storage Temperature Range	T <sub>STG</sub>	-65 to +175	°C
Operating Junction Temperature	T <sub>J</sub>	-65 to +175	°C
Case Style	SMB		

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

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted





**SD560BP**

**Technical Data**  
**Data Sheet N1720, Rev. -**

**Green Products**

**DISCLAIMER:**

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the SMC - Sangdest Microelectronics (Nanjing) Co., Ltd sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment , and safety equipment) , safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement .
- 3- In no event shall SMC - Sangdest Microelectronics (Nanjing) Co., Ltd be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). SMC - Sangdest Microelectronics (Nanjing) Co., Ltd assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall SMC - Sangdest Microelectronics (Nanjing) Co., Ltd be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or SMC - Sangdest Microelectronics (Nanjing) Co., Ltd.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of SMC - Sangdest Microelectronics (Nanjing) Co., Ltd.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations..