

Green Products

SD560B STANDARD RECTIFIER

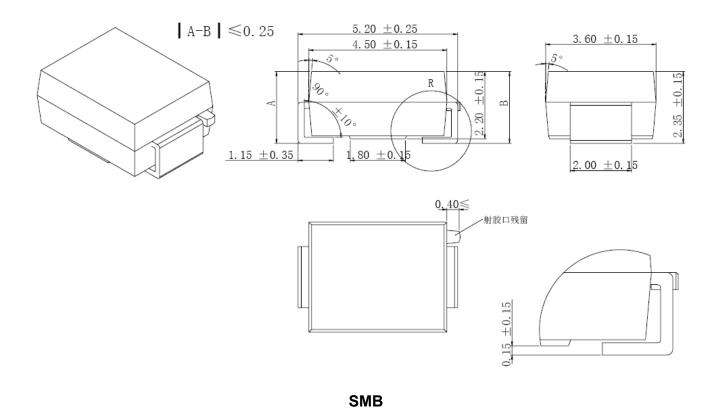
Features:

- 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



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Marking Diagram:



Where XXXXX is YYWWL

 SD560B
 = Part Name

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping
SD560B	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.

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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	SD560B	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 _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
I ² t Rating for fusing (t < 8.3ms)	l² t	166	$A^2 S$
Maximum Instantaneous Forward Voltage @I _F = 5.0A	V _F	1.2	V
	I _R	9.0 170	uA
Typical Junction Capacitance (Note 1)	Cj	50	pF
Typical Thermal Resistance (Note 2)	$R_{ hetaJA}$	20	°C/W
Operating Storage Temperature Range	T _{STG}	-65 to +175	°C
Operating Junction Temperature	T _J	-65 to +175	°C
Case Style		SMB	

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

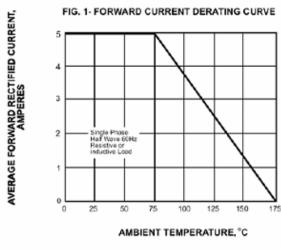
^{2.} Thermal resistance form junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

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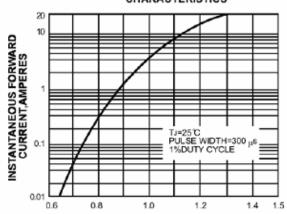
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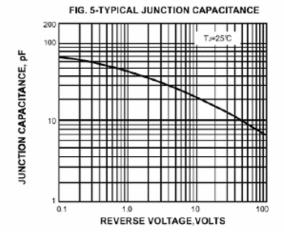
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INSTANTANEOUS FORWARD VOLEAGE, VOLTS



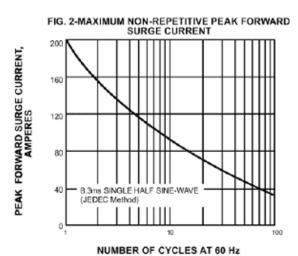
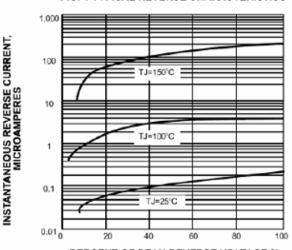
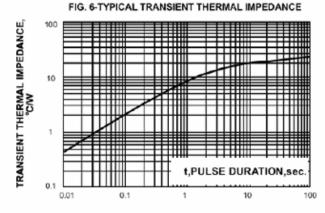


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF PEAK REVERSE VOLTAGE,%



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SD560B

Technical Data Data Sheet N1412, Rev. B

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