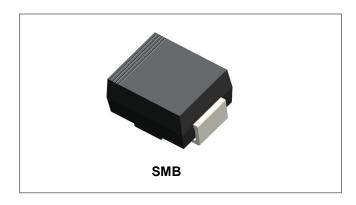






SD560BP STANDARD RECTIFIER



Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- 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

Circuit Diagram



Mechanical Data

- · Case: SMB molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: AnyWeight: 0.09 grams

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

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	SD560BP	Units
Maximum Peak Repetitive Reverse Voltage Maximum DC Blocking Voltage	V _{RRM} V _{DC}	600	V
Maximum RMS Voltage	V _{RMS}	420	V
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
Maximum DC Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	IR	9.0 170	uA
Typical Junction Capacitance (Note 1)	Cj	50	pF
Typical Thermal Resistance (Note 2)	R ₀ JA	20	°C/W
Operating Storage Temperature Range	T _{STG}	-65 to +175	°C
Operating Junction Temperature	TJ	-65 to +175	°C

Note: 1. Measured at 1MHz 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.
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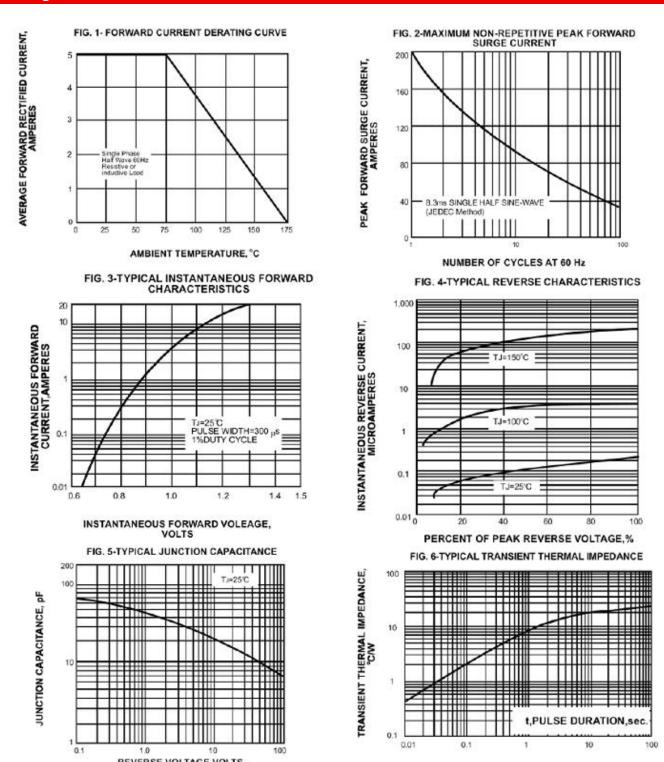




Ratings and Characteristics Curves

1.0

REVERSE VOLTAGE, VOLTS



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0.01

0.1

10

100

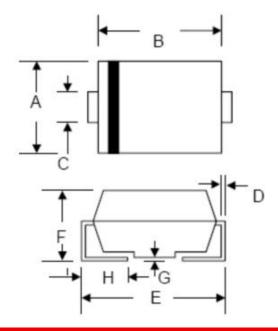
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Mechanical Dimensions SMB



SYMBOL	Millimeters		Inches	
STIVIBUL	Min.	Max.	Min.	Max.
А	3.30	3.94	0.130	0.155
В	4.06	4.70	0.160	0.185
С	1.80	2.20	0.071	0.087
D	0.152	0.305	0.006	0.012
Е	4.80	5.59	0.189	0.220
F	2.10	2.60	0.083	0.102
G	0.051	0.203	0.002	0.008
Н	0.76	1.52	0.030	0.060

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.

Marking Diagram

SD560BP XXXXX Where XXXXX is YYWWL

 SD560BP
 = Part Name

 YY
 = Year

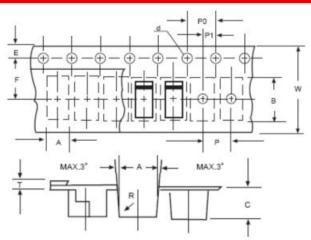
 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Carrier Tape Specification SMB



SYMBOL	Millimeters		
STIVIBUL	Min.	Max.	
Α	3.99	4.19	
В	5.72	5.92	
С	3.23	3.43	
d	1.40	1.60	
E	1.40	1.60	
F	5.60	5.70	
Р	7.90	8.10	
P0	3.90	4.10	
P1	1.90	2.10	
Т	-	0.60	
W	11.80	12.20	

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