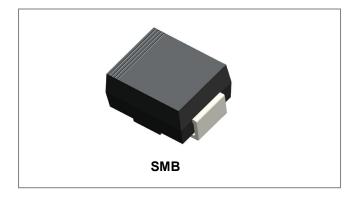


SD360BD

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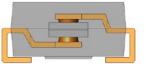
SD360BD STANDARD RECTIFIER

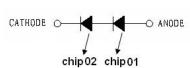


Features

- 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





Internal Structure

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: Any
- Weight: 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	Chip01/Chip02	SD360BD	Units
Maximum Peak Repetitive Reverse Voltage Maximum DC Blocking Voltage Maximum Breakdown Voltage	V _{RRM} V _{DC} V _{BR}	600	1000	v
Maximum RMS Voltage	V _{RMS}	420	700	V
Maximum Average Forward Rectified Current $0.375"(9.5mm)$ Lead Length $@T_A = 75^{\circ}C$	I _(AV)	3.0		A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100		A
Maximum Instantaneous Forward Voltage @I _F = 3.0A	VF	1.2	2.0	V
Maximum DC Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IR	5.0 100		uA
Typical Junction Capacitance (Note 1)	Cj	30.0	15.0	pF
Typical Thermal Resistance (Note 2)	R _{0JA}	-	20.0	°C/W
Operating Storage Temperature Range	Tstg	-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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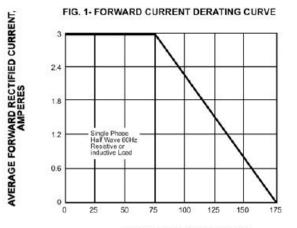


SD360BD

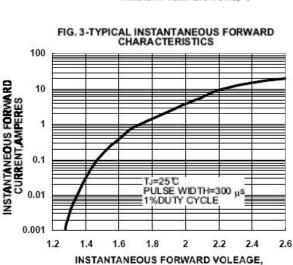
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RoHS 🗭

Ratings and Characteristics Curves

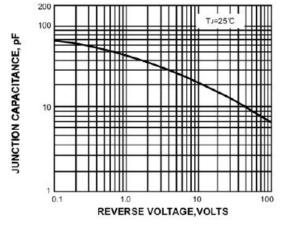


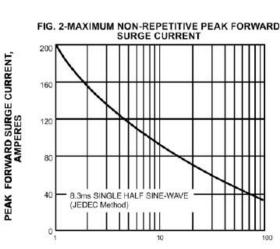






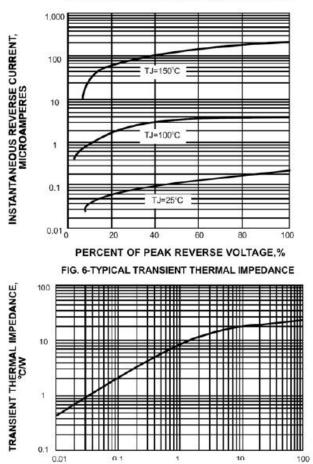
VOLTS





NUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



t, PULSE DURATION, sec.

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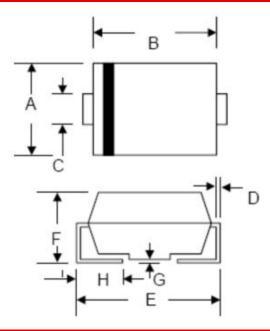


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SD360BD



Mechanical Dimensions SMB



SYMBOL		Inches		
STIVIDUL	Min.	Max.	Min.	Max.
A	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
E	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

Marking Diagram

SD360BD

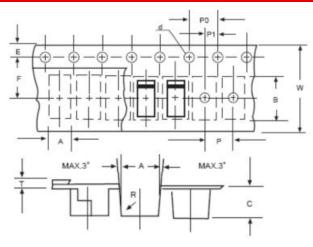
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Ordering Information

Device	Package	Shipping	
SD360BD	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.

Carrier Tape Specification SMB



SYMBOL	Millimeters			
STIVIDUL	Min.	Max.		
A	3.99	4.19		
В	5.72	5.92		
C	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		

YY WW

1

Where XXXXX is YYWWL SD360BD = Part Name

= Year

= Week

Cautions: Molding resin

= Lot Number

Epoxy resin UL:94V-0

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