

Green Products

SB20150

SB20150 SCHOTTKY RECTIFIER

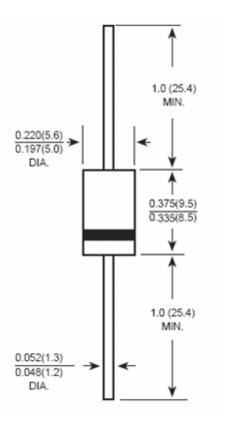
Applications:

- Disk Drives
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Battery Charging

Features:

- Small foot print, surface moutable
- Low forward voltage drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In Inches / mm



DO-201AD

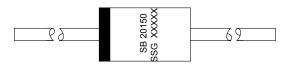


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Technical Data Data Sheet N0888, Rev. -

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Marking Diagram:



Where XXXXX is YYWWL

SB	= Device Type
20	= Forward Current (20A)
150	= Reverse Voltage (150V)
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information:

Device	Package	Shipping	
SP20150	DO-201AD	1250pcs / tape	
SB20150	(Pb-Free)	1250pcs / tape	

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 @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	SB20150	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	150	V
Maximum RMS Voltage	V _{RMS}	105	V
Average Rectified Output Current (Note 1) @T _c = 135°C	I _{F(AV)}	20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300	A
Forward Voltage $@I_F = 20A, T_A = 25^{\circ}C$ $@I_F = 20A, T_A = 125^{\circ}C$	V _{FM}	1.05 0.95	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	I _{RM}	1 8	mA
Typical Thermal Resistance Junction to Case	R _{θJC}	2	°C /W
Storage Temperature Range	T _{J,} T _{STG}	-50 to +150	°C
Approximate Weight	wt	1.02	g
Case Style		DO-201AD	1

Note:1. Mount on Cu-Pad Size 5mm × 5mm on P.C.B.

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