

## SB10150 SCHOTTKY RECTIFIER

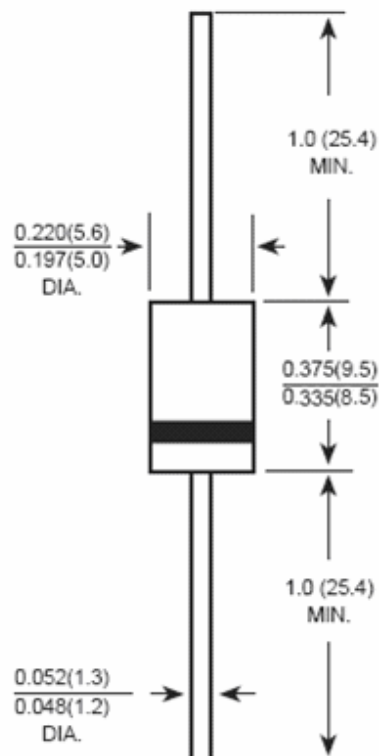
### Applications:

- 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



Technical Data  
Data Sheet N0884 Rev. -

**Green Products**

**Marking Diagram:**

Where XXXXX is YYWWL

- SB = Device Type
- 10 = Forward Current (10A)
- 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
SB10150	DO-201AD (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.



**Maximum Ratings and Electrical Characteristics** @ $T_A=25^\circ\text{C}$  unless otherwise specified

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

Characteristic	Symbol	SB10150	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) @ $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	10	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	200	A
Forward Voltage @ $I_F = 10\text{A}, T_A = 25^\circ\text{C}$ @ $I_F = 10\text{A}, T_A = 125^\circ\text{C}$	$V_{FM}$	1.05 0.90	V
Peak Reverse Current At Rated DC Blocking Voltage @ $T_A = 25^\circ\text{C}$ @ $T_A = 125^\circ\text{C}$	$I_{RM}$	1 7	mA
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	10	$^\circ\text{C}/\text{W}$
Storage Temperature Range	$T_J, T_{STG}$	-50 to +150	$^\circ\text{C}$
Approximate Weight	wt	1.02	g
Case Style	DO-201AD		

Note:1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.



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