Green Products

SB10150 SCHOTTKY RECTIFIER

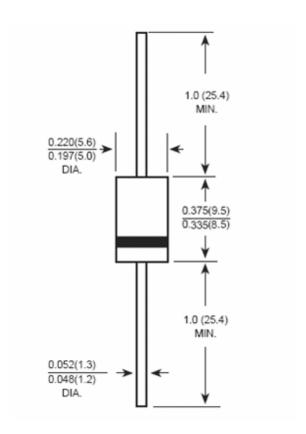
Applications:

- 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



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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	
CD10150	DO-201AD	1250nos / tano	
SB10150	(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	SB10150	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	150	V
Maximum RMS Voltage	V_{RMS}	105	V
Average Rectified Output Current (Note 1) @T _A = 75°C	I _{F(AV)}	10	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200	А
Forward Voltage	V_{FM}	1.05 0.90	V
Peak Reverse Current $\textcircled{Q}T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $\textcircled{Q}T_A = 125^{\circ}C$	I _{RM}	1 7	mA
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	10	°C /W
Storage Temperature Range	$T_{J,}T_{STG}$	-50 to +150	°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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