

Green Products

SB3150 SCHOTTKY RECTIFIER

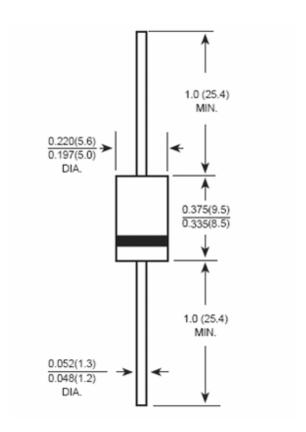
Applications:

- 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

 3
 = Forward Current (3A)

 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	
CD2450	DO-201AD	1250pes / tops	
SB3150	(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	SB3150	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 = 25°C	lo	3.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	110	А
Forward Voltage @I _F = 3.0A	V_{FM}	0.89	V
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I _{RM}	1.0 7.0	mA
Typical Junction Capacitance (Note 2)	CJ	200	pF
Max. Voltage Rate of Change	dv/dt	10,000	V/µs
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	25	K/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.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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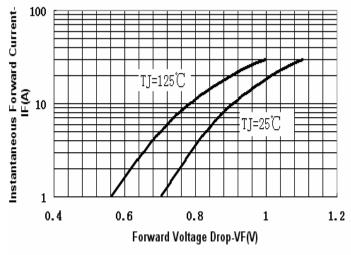


Fig.1-Typical Forward Voltage Drop Characteristics

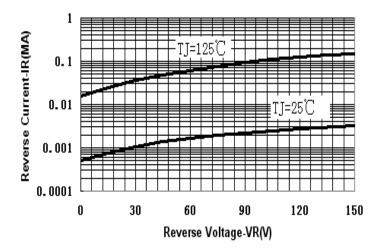


Fig.2-Typical Values Of Reverse Current Vs.Reverse Voltage

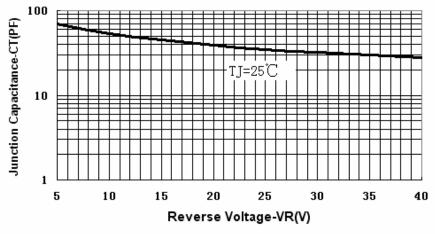


Fig.3-Typical Junction Capacitance Vs.Reverse Voltage





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