



**THE DATASHEET OF
SB3150TA**



SB3150 SCHOTTKY RECTIFIER

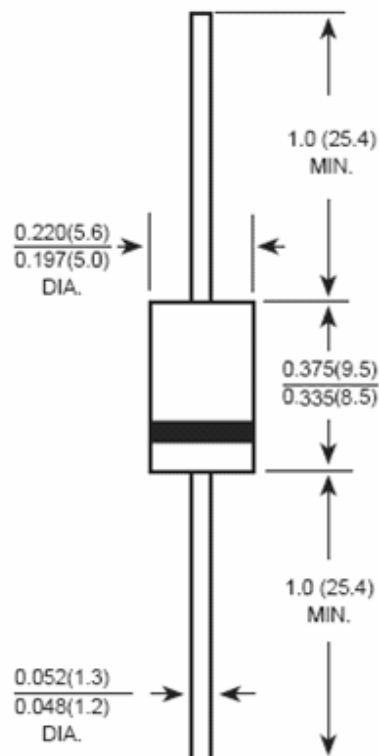
Applications:

- 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

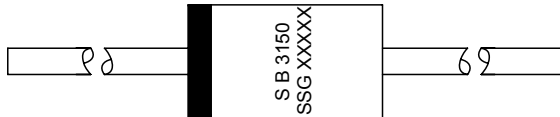
**DO-201AD**



Technical Data
Data Sheet N0090 Rev. -

Green Products

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
SB3150	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°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	I _O	3.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	110	A
Forward Voltage @I _F = 3.0A	V _{FM}	0.89	V
Peak Reverse Current At Rated DC Blocking Voltage @T _A = 25°C @T _A = 125°C	I _{RM}	1.0 7.0	mA
Typical Junction Capacitance (Note 2)	C _J	200	pF
Max. Voltage Rate of Change	dv/dt	10,000	V/μs
Typical Thermal Resistance Junction to Ambient	R _{θJA}	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.

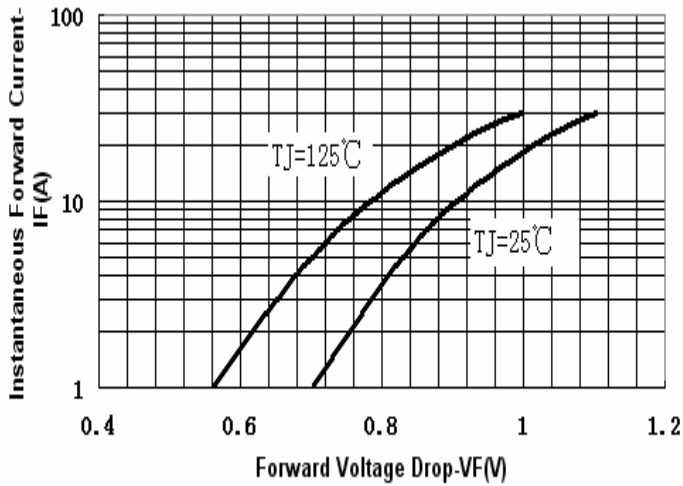


Fig.1-Typical Forward Voltage Drop Characteristics

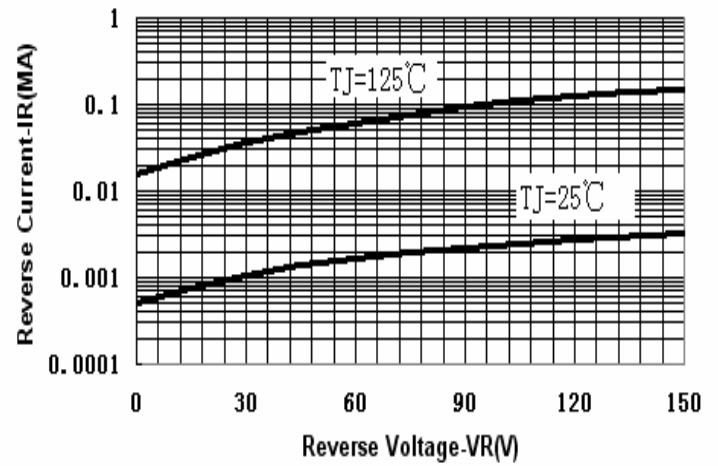


Fig.2-Typical Values Of Reverse Current Vs.Reverse Voltage

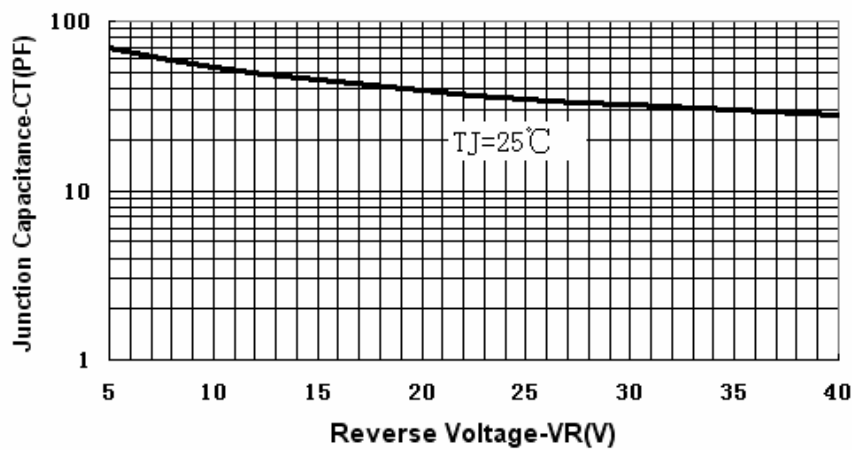


Fig.3-Typical Junction Capacitance Vs.Reverse Voltage





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