

Green Products

SB3200 SCHOTTKY RECTIFIER

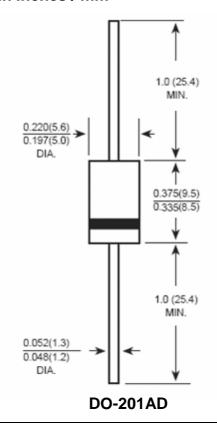
Applications:

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Disk drives
- Battery charging

Features:

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- 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



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Marking Diagram:



Where XXXXX is YYWWL

 SB
 = Device Type

 3
 = Forward Current (3A)

 200
 = Reverse Voltage (200V)

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SB2200	DO-201AD	1250 nos / Tono
SB3200	(Pb-Free)	1250 pcs / 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℃ unless otherwise specified

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

Characteristic	Symbol	SB3200	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V	
Average Rectified Output Current (Note 1) @T _A = 105℃	lo	3.0	А	
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}	0.90	V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	I _{RM}	1.0 6.0	mA	
Typical Junction Capacitance (Note 2)	Cj	150	pF	
Max. Voltage Rate of Change	dv/dt	10,000	V/µs	
Storage Temperature Range	T _{STG}	-55 to +150	C	
Max. Junction Temperature	TJ	-55 to +150	C	
Approximate Weight	wt	1.02	g	
Case Style		DO-201AD		

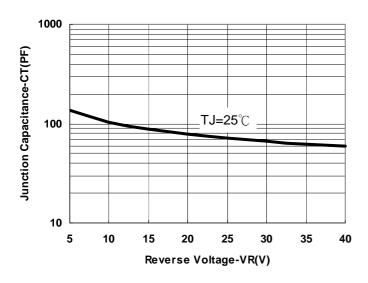
Note:1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

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

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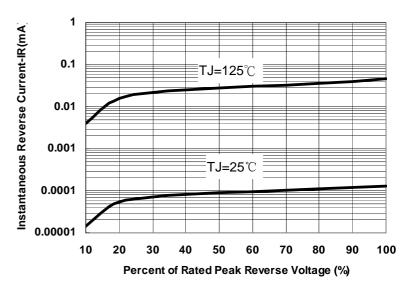


Fig.1-Typical Junction Capacitance Vs.Reverse Voltage

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

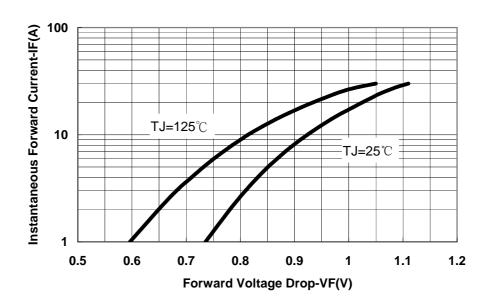


Fig.3-Typical Forward Voltage Drop Characteristics

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