

SB3150 - SB3200

3.0A HIGH VOLTAGE SCHOTTKY BARRIER DIODE

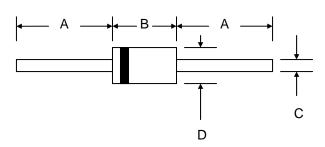


Features

- Schottky Barrier Chip
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 80A Peak
- Low Power Loss, High Efficiency
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



DO-201AD				
Dim	Min	Max		
Α	25.4			
В	7.20	9.50		
С	1.20	1.30		
D	4.80	5.30		
All Dimensions in mm				

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

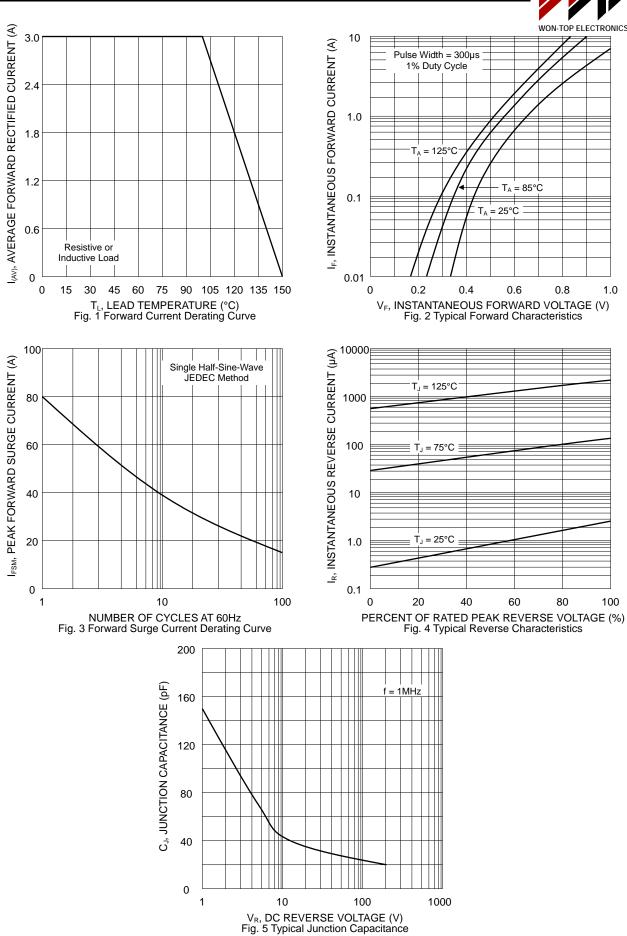
Characteristic	Symbol	SB3150	SB3200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	200	v
RMS Reverse Voltage	VR(RMS)	105	140	V
Average Rectified Output Current (Note 1)	lo	3.	0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	8	0	A
Forward Voltage $@I_F = 3.0A$	Vfm	0	9	V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Irm	0. 5.		mA
Typical Junction Capacitance (Note 2)	CJ	8	0	pF
Thermal Resistance, Junction to Ambient (Note 3) Thermal Resistance, Junction to Lead (Note 3)	R JA R JL	2 1		°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to	+150	°C

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.

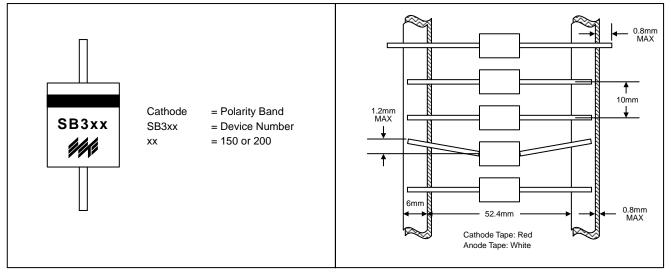
3. Vertical PCB mounting with 12.7mm lead length on 63.5 x 63.5mm copper pad.

SB3150 - SB3200



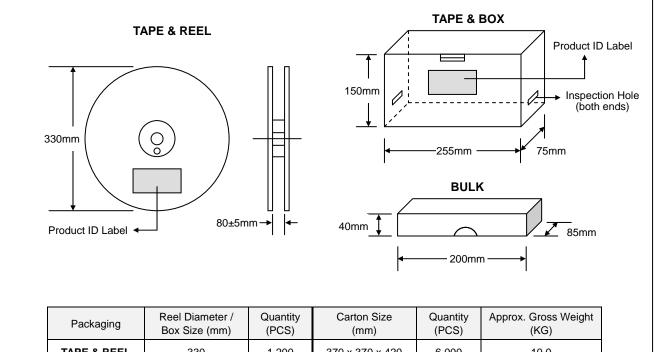


MARKING INFORMATION



TAPING SPECIFICATIONS

PACKAGING INFORMATION



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	1,200	370 x 370 x 420	6,000	10.0
TAPE & BOX	255 x 75 x 150	1,200	400 x 273 x 415	12,000	17.0
BULK	200 x 85 x 40	500	459 x 214 x 256	12,500	16.0

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.2. Components are packed in accordance with EIA standard RS-296-E.



Product No.	Package Type	Shipping Quantity	
SB3xx-T3	DO-201AD	1200/Tape & Reel	
SB3xx-TB	DO-201AD	1200/Tape & Box	
SB3xx	DO-201AD	500 Units/Box	

ORDERING INFORMATION

1. Products listed in **bold** are WTE **Preferred** devices. 2.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB3150-TB-LF. 3.

WON-TOP ELECTRONICS and *me* are registered trademarks of Won-Top Electronics Co., Ltd (WTE). WTE has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without the patient of the semiconductor devices and license under patent rights to manufacturer. without further notice.

WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.