

# SB3150 - SB3200

3.0A HIGH VOLTAGE SCHOTTKY BARRIER DIODE

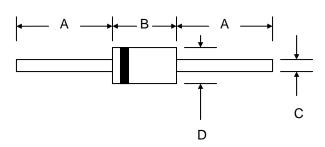


### **Features**

- 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%.

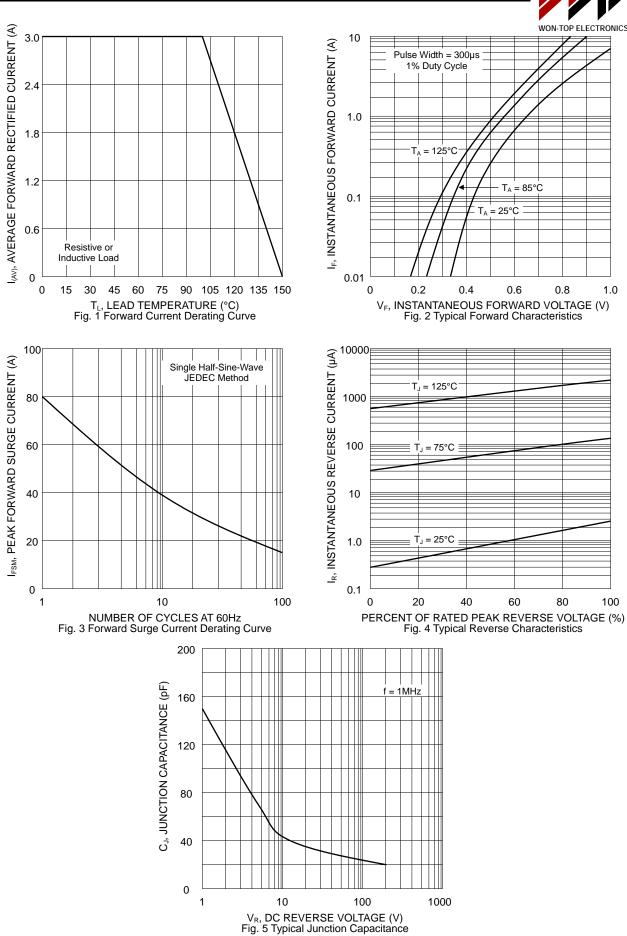
Characteristic	Symbol	SB3150	SB3200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	200	v
RMS Reverse Voltage	VR(RMS)	105	140	V
Average Rectified Output Current (Note 1)	lo	3.	0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave 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.

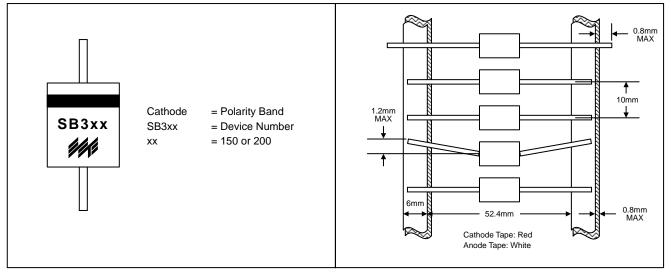
3. Vertical PCB mounting with 12.7mm lead length on 63.5 x 63.5mm copper pad.

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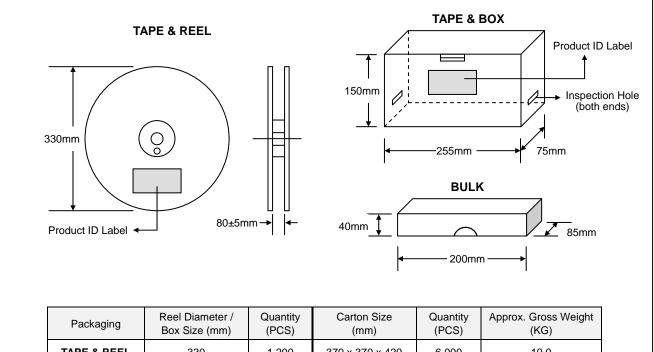


### MARKING INFORMATION



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.

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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.

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