

2.0A HIGH VOLTAGE SCHOTTKY BARRIER DIODE



Features

- Schottky Barrier Chip
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 50A Peak
- Low Power Loss, High Efficiency
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

Case: DO-15, Molded Plastic

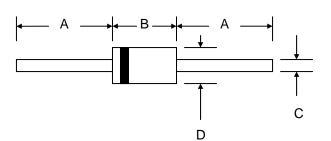
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.40 grams (approx.)

Mounting Position: AnyMarking: Type Number

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



DO-15				
Dim	Min	Max		
Α	25.4	_		
В	5.50	7.62		
С	0.71	0.864		
D	2.60	3.60		
All Dimensions in mm				

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

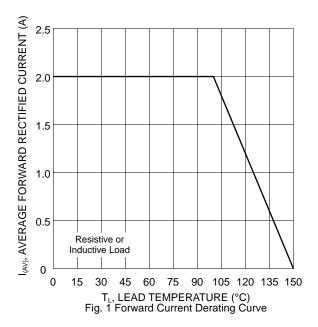
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

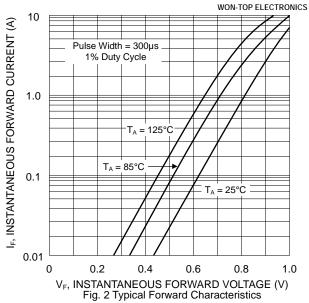
Characteristic	Symbol	SB2150	SB2200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	200	V
RMS Reverse Voltage	VR(RMS)	105	140	V
Average Rectified Output Current (Note 1)	lo	2.0		Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	5	0	А
Forward Voltage $@I_F = 2.0A$	VFM	0	.9	V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	IRM	-	2 0	mA
Typical Junction Capacitance (Note 2)	Cì	5	5	pF
Thermal Resistance, Junction to Ambient (Note 3) Thermal Resistance, Junction to Lead (Note 3)	R JA R JL	35 14		°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to	+150	°C

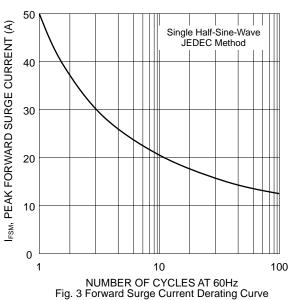
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

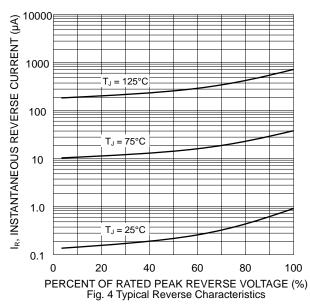
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Vertical PCB mounting with 12.7mm lead length on 63.5 x 63.5mm copper pad.











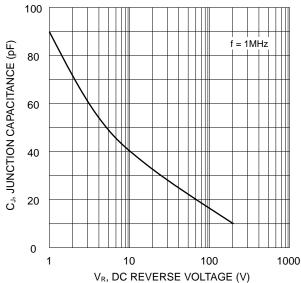
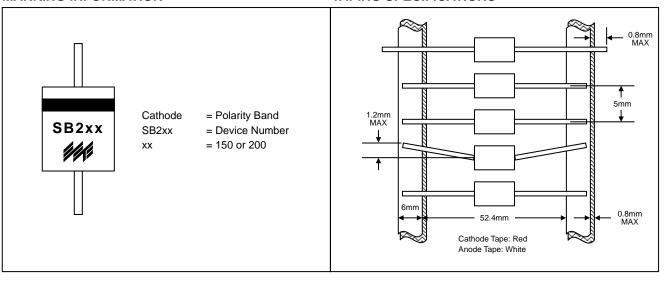


Fig. 5 Typical Junction Capacitance

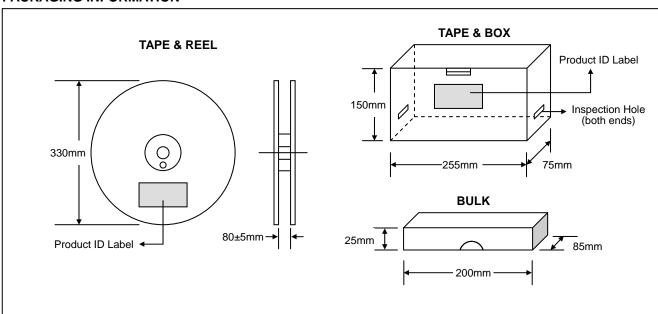


MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	4,000	370 x 370 x 420	20,000	12.0
TAPE & BOX	255 x 75 x 150	3,000	400 x 273 x 415	30,000	15.0
BULK	200 x 85 x 25	1,000	459 x 214 x 256	40,000	17.5

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.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity	
SB2xx-T3	DO-15	4000/Tape & Reel	
SB2xx-TB	DO-15	3000/Tape & Box	
SB2xx	DO-15	1000 Units/Box	

- Products listed in **bold** are WTE **Preferred** devices.
- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department. 2.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB2150-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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