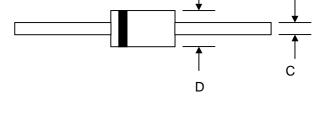




# 2.0A SCHOTTKY BARRIER DIODE

#### 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



Mechanical Data	Med	:han	ical	Data
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- 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: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

# B 5.50 7.62 C 0.71 0.864 D 2.60 3.60 All Dimensions in mm

DO-15

Min

25.4

Max

Dim

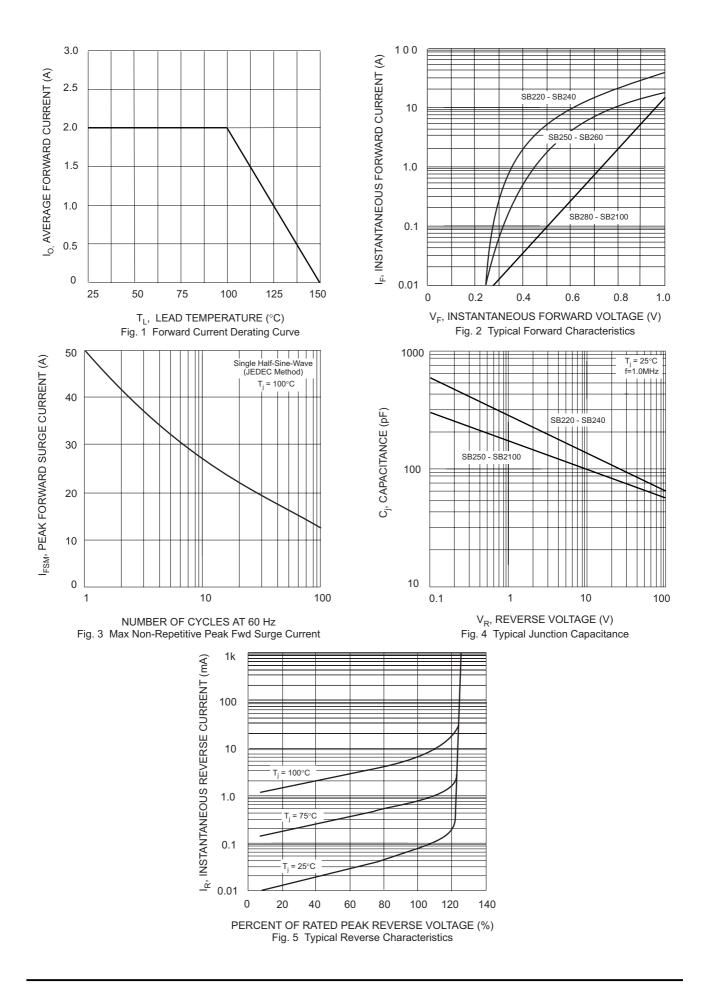
Α

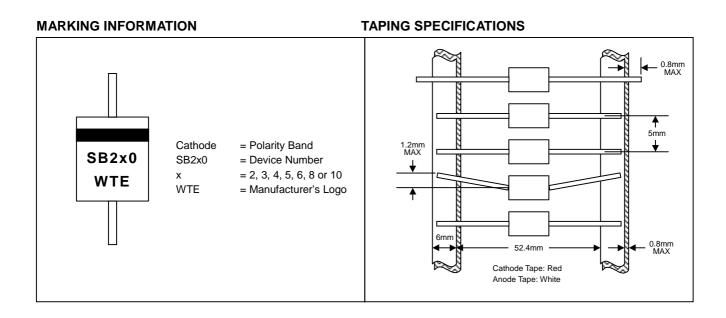
### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

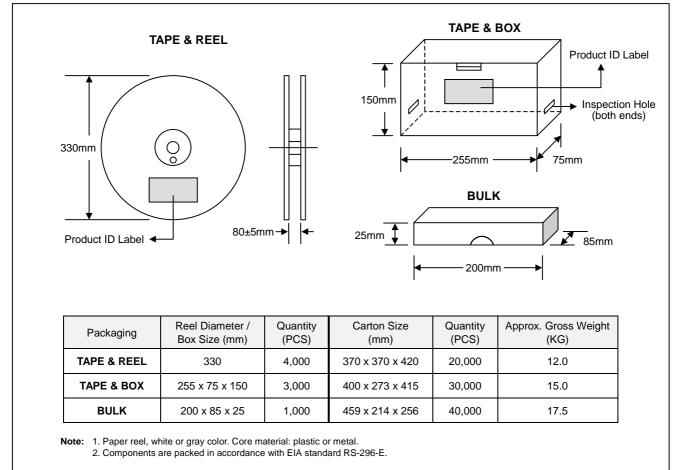
Characteristic	Symbol	SB220	SB230	SB240	SB250	SB260	SB280	SB2100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current $@T_L = 100^{\circ}C$ (Note 1)	lo	2.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50					A		
Forward Voltage $@I_F = 2.0A$	Vfm	0.50 0.70 0.85				85	V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	0.5 10					mA		
Typical Junction Capacitance (Note 2)	Cj	170 140				pF			
Typical Thermal Resistance (Note 1)	R∂JA	35					°C/W		
Operating and Storage Temperature Range	Тј, Tsтg	-65 to +150						°C	

Note: 1. Valid provided that leads are kept 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.





## PACKAGING INFORMATION



Product No.	Package Type	Shipping Quantity				
SB220-T3	DO-15	4000/Tape & Reel				
SB220-TB	DO-15	3000/Tape & Box				
SB220	DO-15	1000 Units/Box				
SB230-T3	DO-15	4000/Tape & Reel				
SB230-TB	DO-15	3000/Tape & Box				
SB230	DO-15	1000 Units/Box				
SB240-T3	DO-15	4000/Tape & Reel				
SB240-TB	DO-15	3000/Tape & Box				
SB240	DO-15	1000 Units/Box				
SB250-T3	DO-15	4000/Tape & Reel				
SB250-TB	DO-15	3000/Tape & Box				
SB250	DO-15	1000 Units/Box				
SB260-T3	DO-15	4000/Tape & Reel				
SB260-TB	DO-15	3000/Tape & Box				
SB260	DO-15	1000 Units/Box				
SB280-T3	DO-15	4000/Tape & Reel				
SB280-TB	DO-15	3000/Tape & Box				
SB280	DO-15	1000 Units/Box				
SB2100-T3	DO-15	4000/Tape & Reel				
SB2100-TB	DO-15	3000/Tape & Box				
SB2100	DO-15	1000 Units/Box				

#### **ORDERING INFORMATION**

1. 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.

3. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB220-TB-LF.

Won-Top Electronics Co., Ltd (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 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.

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