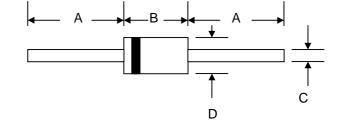




1.0A SCHOTTKY BARRIER DIODE

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



DO-41

Min

25.4

4.06

0.71

2.00

All Dimensions in mm

Max

5.21

0.864

2.72

Dim

Α

в

С

D

逐步

Mechanical D	ata
--------------	-----

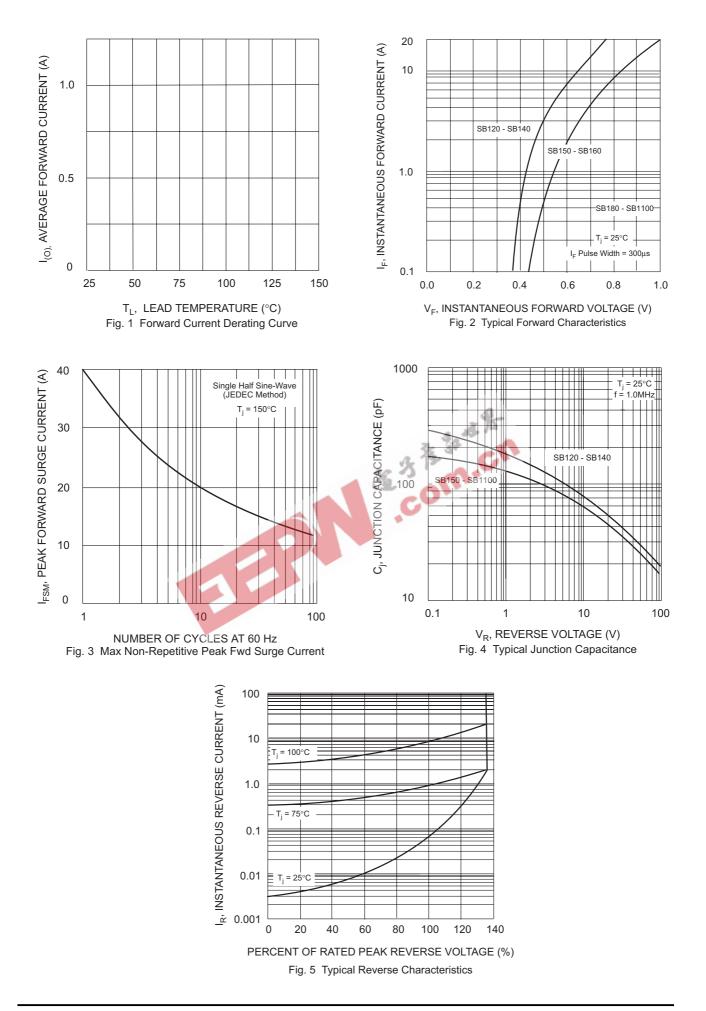
- Case: DO-41, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

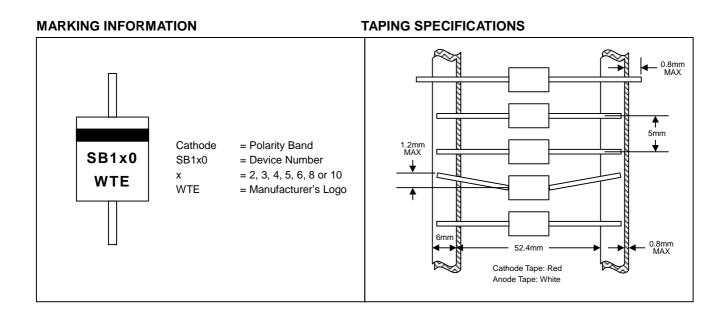
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

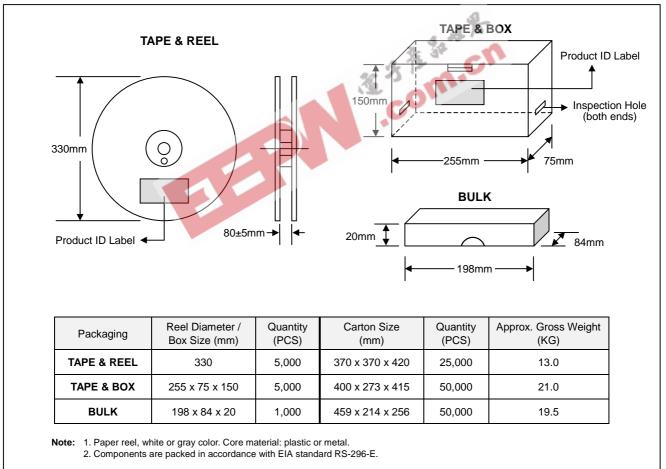
Characteristic	Symbol	SB120	SB130	SB140	SB150	SB160	SB180	SB1100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current $@T_L = 100^{\circ}C$ (Note 1)	lo	1.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40					A		
Forward Voltage $@I_F = 1.0A$	Vfm	0.50			0.70		0.85		V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	I RM	0.5 10						mA	
Typical Junction Capacitance (Note 2)	Cj	110 80				pF			
Typical Thermal Resistance (Note 1)	R∂JL R∂JA	15 50						°C/W	
Operating and Storage Temperature Range	Тj, 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
SB120-T3	DO-41	5000/Tape & Reel
SB120-TB	DO-41	5000/Tape & Box
SB120	DO-41	1000 Units/Box
SB130-T3	DO-41	5000/Tape & Reel
SB130-TB	DO-41	5000/Tape & Box
SB130	DO-41	1000 Units/Box
SB140-T3	DO-41	5000/Tape & Reel
SB140-TB	DO-41	5000/Tape & Box
SB140	DO-41	1000 Units/Box
SB150-T3	DO-41	5000/Tape & Reel
SB150-TB	DO-41	5000/Tape & Box
SB150	DO-41	1000 Units/Box
SB160-T3	DO-41	5000/Tape & Reel
SB160-TB	DO-41	5000/Tape & Box
SB160	DO-41	1000 Units/Box
SB180-T3	DO-41	5000/Tape & Reel
SB180-TB	DO-41	5000/Tape & Box
SB180	DO-41	1000 Units/Box
SB1100-T3	DO-41	5000/Tape & Reel
SB1100-TB	DO-41	5000/Tape & Box
SB1100	DO-41	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, SB120-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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, 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.