

SB220S - SB2100S

2.0A SCHOTTKY BARRIER DIODE

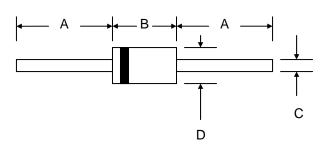


Features

- 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-41, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 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-41						
Dim	Min	Max				
Α	25.4					
В	4.06	5.21				
С	0.71	0.864				
D	2.00	2.72				
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%.

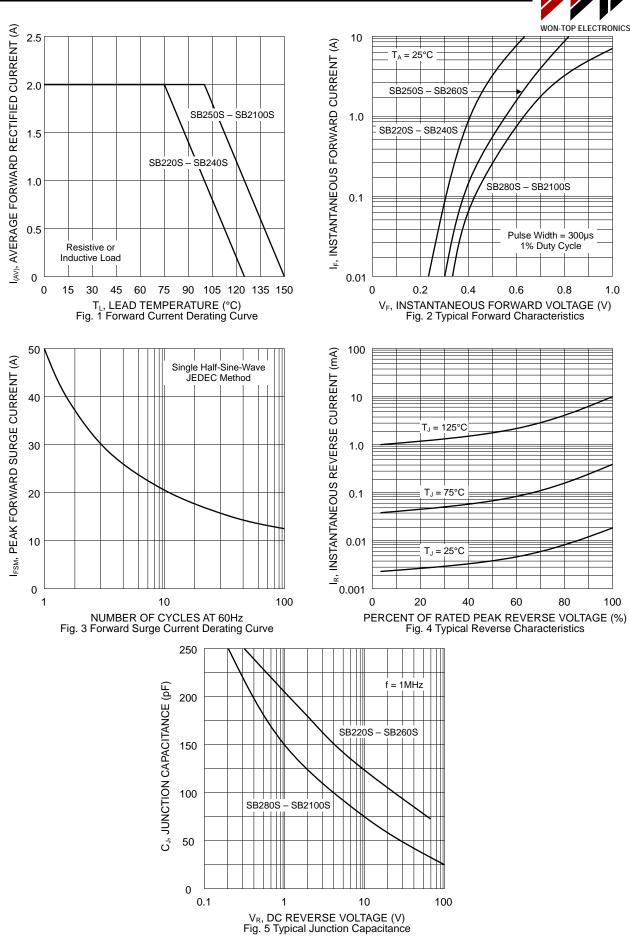
Characteristic	Symbol	SB 220S	SB 230S	SB 240S	SB 250S	SB 260S	SB 280S	SB 2100S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	80	100	V
RMS Reverse Voltage	Vr(rms)	14	21	28	35	42	56	70	V
Average Rectified Output Current (Note 1)	lo	2.0					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	V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Irm	0.5 10				mA			
Typical Junction Capacitance (Note 2)	Сл	150			100		pF		
Thermal Resistance, Junction to Ambient (Note 3) Thermal Resistance, Junction to Lead (Note 3)	R ja R jl	50 15			°C/W				
Operating Temperature Range	TJ	-65 to +125 -65 to +150				°C			
Storage Temperature Range	Тѕтс	-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.

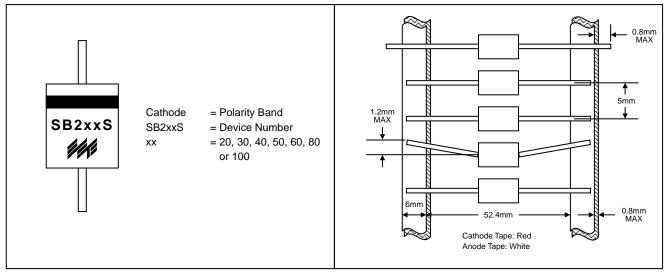
3. Vertical PCB mounting with 12.7mm lead length on 63.5 x 63.5mm copper pad.

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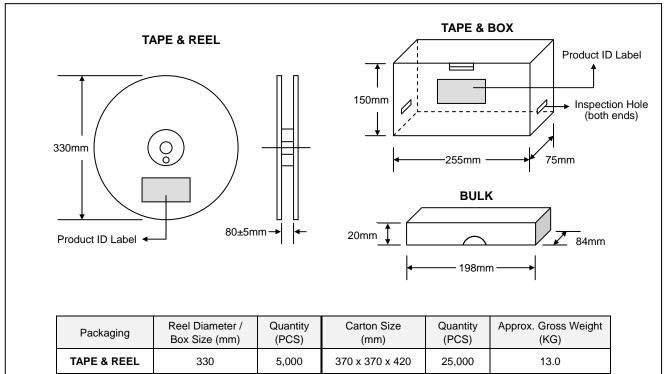


MARKING INFORMATION



TAPING SPECIFICATIONS

PACKAGING INFORMATION



400 x 273 x 415

459 x 214 x 256

50,000

50,000

21.0

19.5

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

255 x 75 x 150

198 x 84 x 20

2. Components are packed in accordance with EIA standard RS-296-E.

5,000

1,000

TAPE & BOX

BULK



Product No.	Package Type	Shipping Quantity
SB2xxS-T3	DO-41	5000/Tape & Reel
SB2xxS-TB	DO-41	5000/Tape & Box
SB2xxS	DO-41	1000 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, SB220S-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.

Won-Top Electronics Co., Ltd.

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