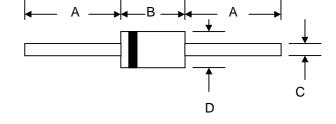


# SB220 – SB260

## 2.0A SCHOTTKY BARRIER RECTIFIER

#### 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**

- Case: 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

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

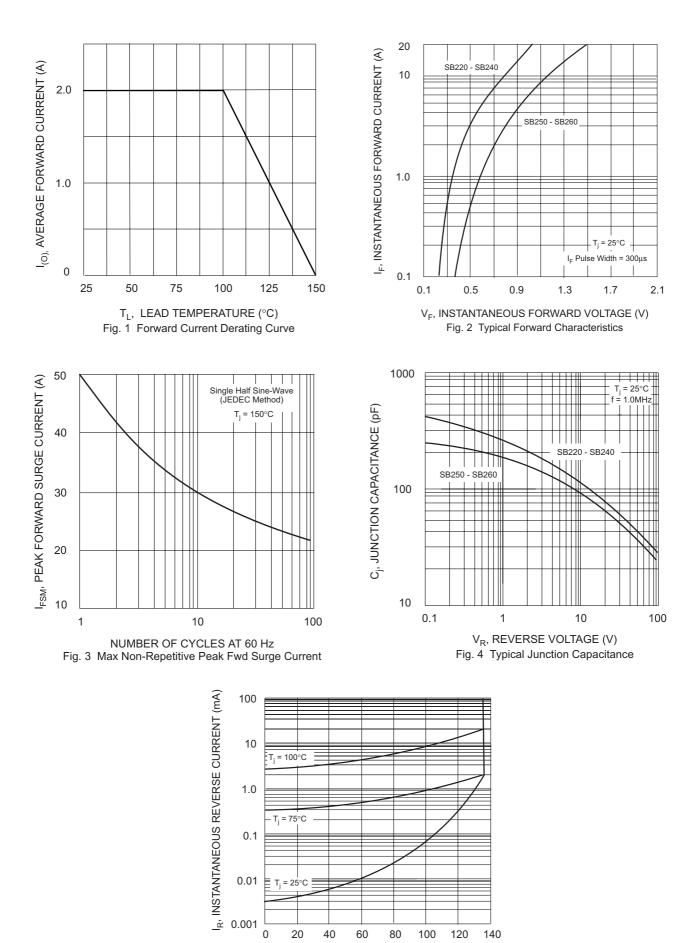
### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

Characteristic		Symbol	SB220	SB230	SB240	SB250	SB260	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	20	30	40	50	60	V
RMS Reverse Voltage		Vr(rms)	14	21	28	35	42	V
Average Rectified Output Current (Note 1) $@T_L = 100^{\circ}C$		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 <sub>F</sub> = 2.0A	VFM	0.50 0.70		70	V		
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 100°C	Irm	0.5 10			mA		
Typical Junction Capacitance (Note 2)		Cj	170		14	140		
Typical Thermal Resistance Junction to Lead		R∉JL	15			K/W		
Typical Thermal Resistance Junction to Ambient (Note 1)		R∂JA	50			K/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.





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		

#### **ORDERING INFORMATION**

Products listed in **bold** are WTE **Preferred** devices. \*T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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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We power your everyday.