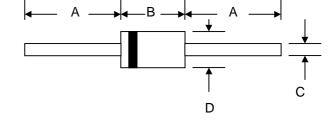


# SB320 – SB360

## **3.0A 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: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

#### DO-201AD Dim Min Max 25.4 Α 8.50 9.50 в С 1.20 1.30 D 5.0 5.60 All Dimensions in mm

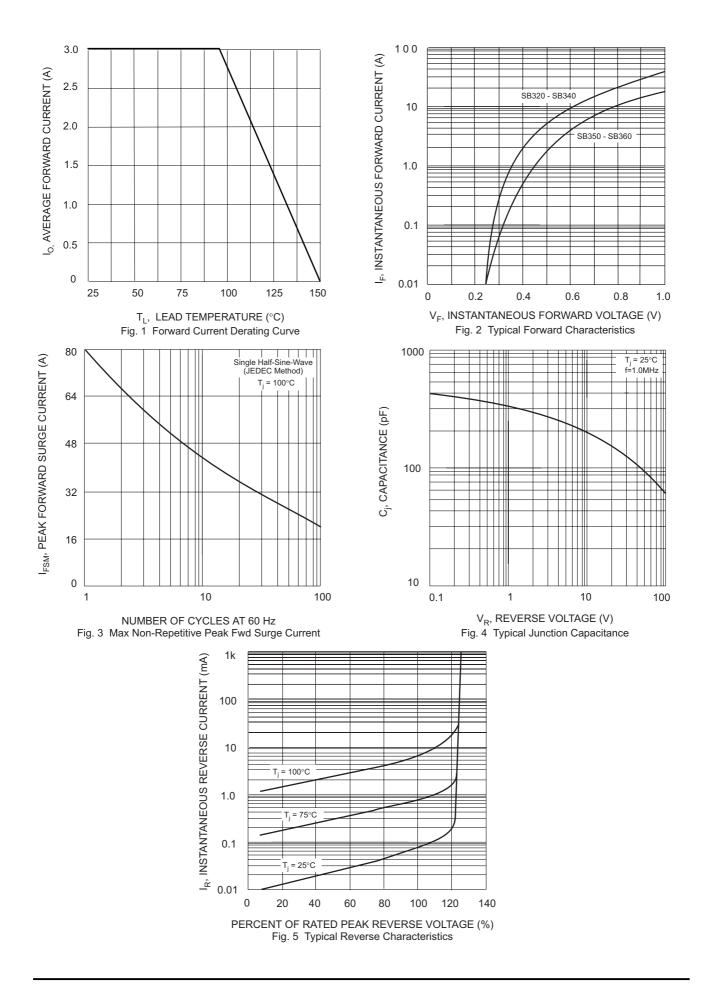
### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	SB320	SB330	SB340	SB350	SB360	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) $@T_L = 95^{\circ}C$	lo	3.0			А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80			A		
Forward Voltage $@I_F = 3.0A$	VFM	0.50 0.74		74	V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	0.5 20			mA		
Typical Junction Capacitance (Note 2)	Cj			250			pF
Typical Thermal Resistance Junction to Ambient	R∂JA			20			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		
SB320-T3	DO-201AD	1200/Tape & Reel		
SB320-TB	DO-201AD	1200/Tape & Box		
SB320	DO-201AD	500 Units/Box		
SB330-T3	DO-201AD	1200/Tape & Reel		
SB330-TB	DO-201AD	1200/Tape & Box		
SB330	DO-201AD	500 Units/Box		
SB340-T3	DO-201AD	1200/Tape & Reel		
SB340-TB	DO-201AD	1200/Tape & Box		
SB340	DO-201AD	500 Units/Box		
SB350-T3	DO-201AD	1200/Tape & Reel		
SB350-TB	DO-201AD	1200/Tape & Box		
SB350	DO-201AD	500 Units/Box		
SB360-T3	DO-201AD	1200/Tape & Reel		
SB360-TB	DO-201AD	1200/Tape & Box		
SB360	DO-201AD	500 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.