

SB10150DC – SB10200DC

10A HIGH VOLTAGE SURFACE MOUNT DUAL SCHOTTKY BARRIER RECTIFIER

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## Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Forward Voltage Drop
- 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: D<sup>2</sup>PAK/TO-263, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

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PIN 1 - O- PIN 3 - O-	Case, PIN 2

D <sup>2</sup> PAK/TO-263			
Dim	Min	Max	
Α	9.80	10.40	
В	9.60	10.60	
С	4.40	4.80	
D	8.50	9.10	
E	2.80		
G	1.00	1.40	
н	_	0.90	
J	1.20	1.40	
к	0.30	0.70	
Р	2.35	2.75	
All Dimensions in mm			

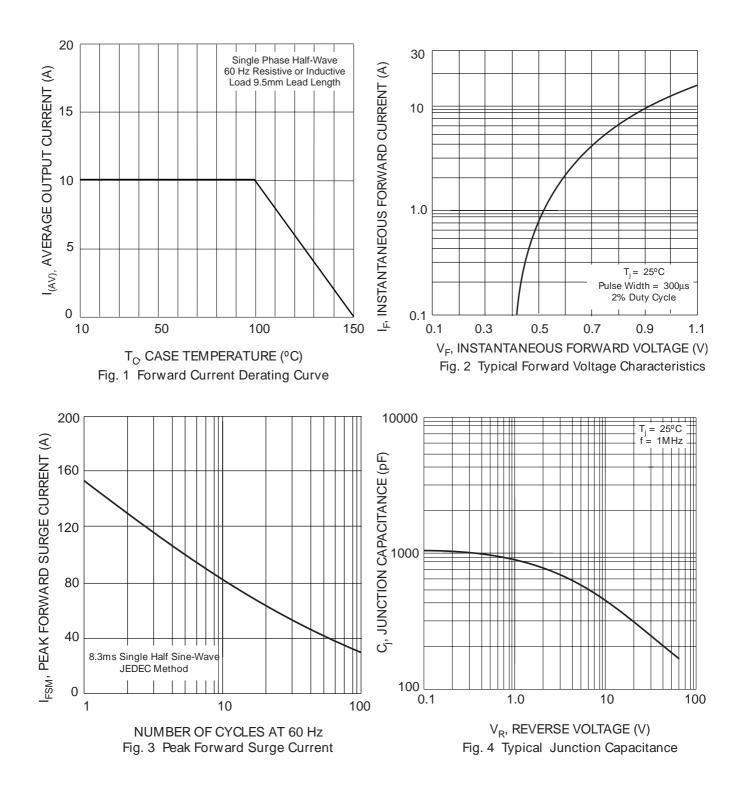
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# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

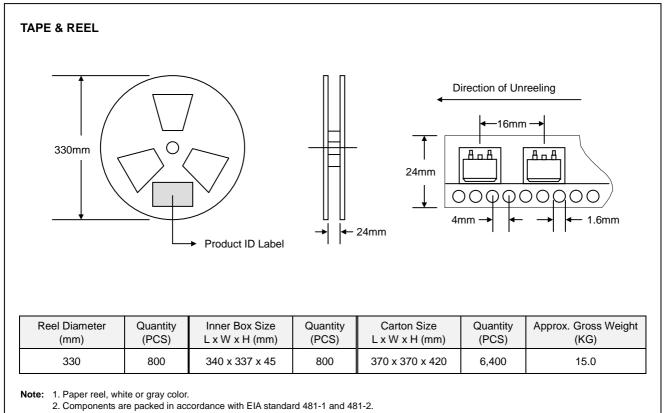
Characteristic	Symbol	SB10150DC	SB10200DC	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	200	V
RMS Reverse Voltage	VR(RMS)	105	140	V
Average Rectified Output Current $@T_c = 100^{\circ}C$	lo	10		А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	1:	50	А
Forward Voltage @I <sub>F</sub> = 5.0A	Vfm	0.	92	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	-	.5 0	mA
Typical Junction Capacitance (Note 1)	Cj	6	00	pF
Typical Thermal Resistance (Note 2)	R	3	.0	°C/W
Operating and Storage Temperature Range	Тј, Тѕтс	-65 tc	+150	°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C. 2. Thermal resistance junction to case mounted on heatsink.



#### MARKING INFORMATION **RECOMMENDED FOOTPRINT** 0.33 (8.38) ♦ 0.12 (3.05) WTE SB10xxDC **▲** 0.08 (2.032) 0.42 0.24 V (10.66) **↓** 0.04 (6.096) (1.016) 4 WTE = Manufacturer's Logo SB10xxDC = Device Number 0.63 = 150 or 200 (17.02) хх Polarity = As Marked on Body inches(mm)

## PACKAGING INFORMATION



### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
SB10150DC-T3	D <sup>2</sup> PAK	800/Tape & Reel
SB10200DC-T3	D <sup>2</sup> PAK	800/Tape & Reel

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

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB10150DC-T3-LF.

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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. 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

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