



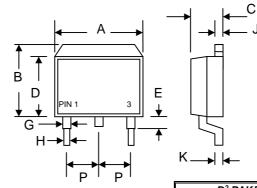
8.0A HIGH VOLTAGE SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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: D²PAK/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



Case

D ² 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
Е	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		

. 1

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%.

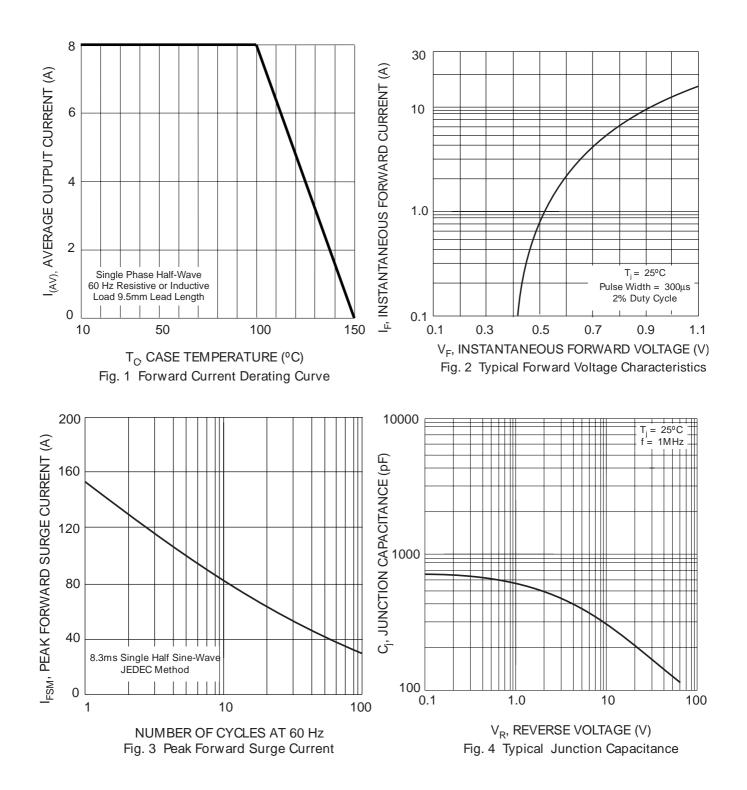
Characteristic	Symbol	SB8150D	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	V
RMS Reverse Voltage	VR(RMS)	105	V
Average Rectified Output Current $@T_c = 100^{\circ}C$	ю	8.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150	A
Forward Voltage $@I_F = 8.0A$	Vгм	0.92	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	0.5 50	mA
Typical Junction Capacitance (Note 1)	Cj	400	pF
Typical Thermal Resistance (Note 2)	R	3.0	°C/W
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150	°C

PIN1+ O

PIN 3 - O-

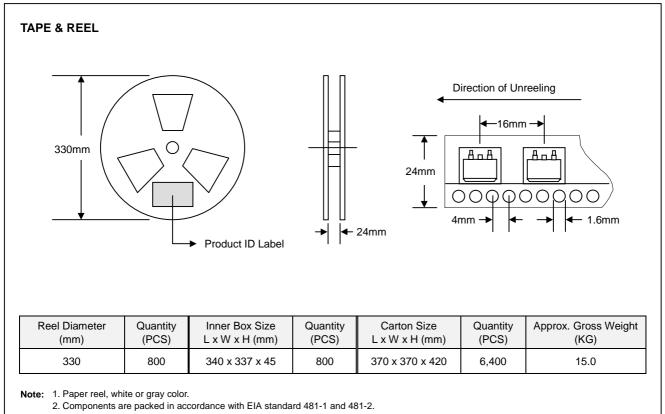
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.



MARKING INFORMATION **RECOMMENDED FOOTPRINT** 0.33 (8.38) € 0.12 (3.05) WTE SB8150D ▲ 0.08 (2.032) 0.42 0.24 V (10.66) **★** 0.04 (6.096) (1.016) = Manufacturer's Logo WTE SB8150D = Device Number 0.63 = As Marked on Body (17.02) Polarity inches(mm)

PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB8150D-T3	D ² PAK	800/Tape & Reel

Shipping quantity given is for minimum packing quantity only. For minimum 1.

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, SB8150D-T3-LF. 2.

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.