



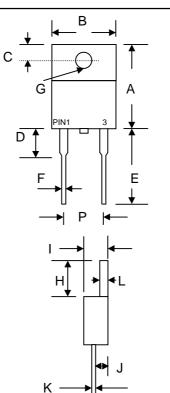
# 8.0A HIGH VOLTAGE SCHOTTKY BARRIER RECTIFIER

### Features

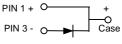
- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

#### **Mechanical Data**

- Case: TO-220A, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



TO-220A			
Dim	Min	Max	
Α	13.90	15.90	
В	9.80	10.70	
С	2.54	3.43	
D	3.56	4.56	
E	12.70	14.73	
F	0.51	0.96	
G	3.55 Ø	4.09 Ø	
Н	5.75	6.85	
I	4.16 5.00		
J	2.03	2.92	
к	0.30 0.65		
L	1.14 1.40		
Р	4.83 5.33		
All Dimensions in mm			



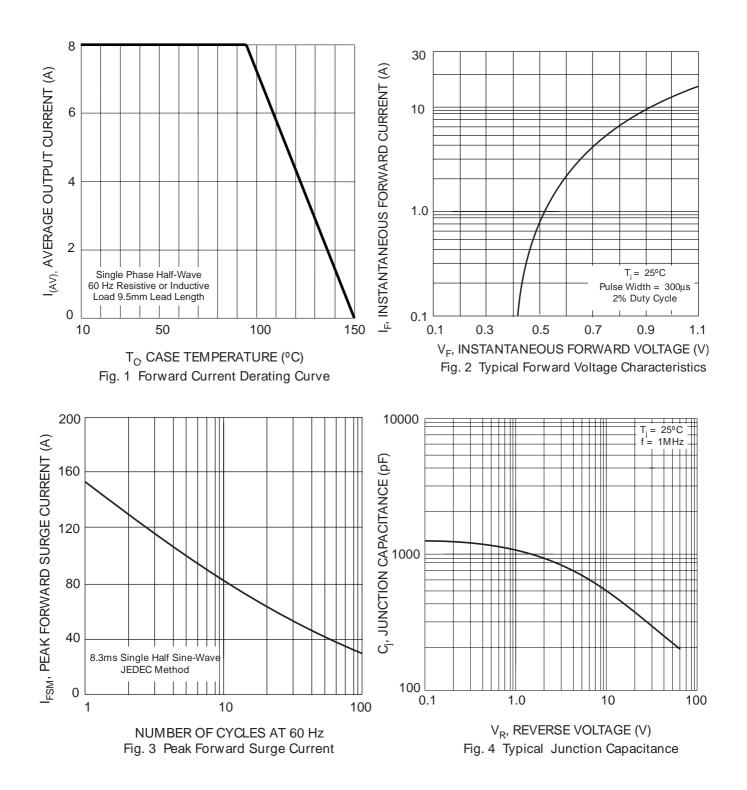
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

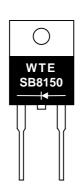
Characteristic	Symbol	SB8150	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	V
RMS Reverse Voltage	Vr(rms)	105	V
Average Rectified Output Current $@T_c = 95^{\circ}C$	ю	8.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150	A
Forward Voltage $@I_F = 8.0A$	Vfm	0.92	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	0.5 50	mA
Typical Junction Capacitance (Note 1)	Cj	700	pF
Typical Thermal Resistance (Note 2)	R	3.0	°C/W
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +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



WTE	= Manufacturer's Logo	
SB8150	= Device Number	
Polarity	= As Marked on Body	

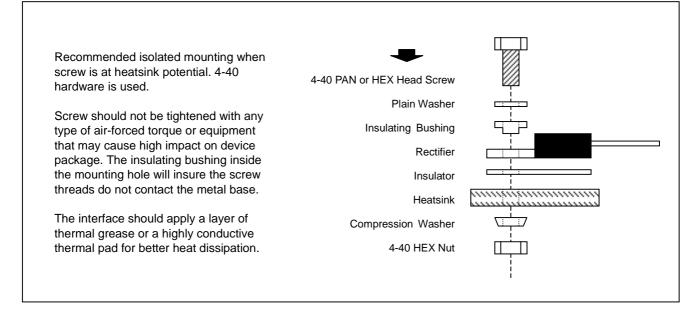
# **PACKAGING INFORMATION**

#### BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

Note: 1. Anti-static tube, water clear color.

## **RECOMMENDED SCREW MOUNTING ARRANGEMENT**



### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity	
SB8150	TO-220A	50 Units/Tube	

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, SB8150-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.