

# SB30150FCT - SB30200FCT

## 30A HIGH VOLTAGE DUAL SCHOTTKY BARRIER RECTIFIER

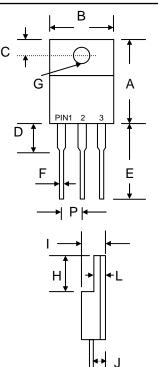


### Features

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

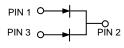
#### **Mechanical Data**

- Case: ITO-220, Full Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.9 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 0.6 N.m Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



Κ

ITO-220				
Dim	Min	Max		
Α	14.60	15.40		
В	9.70	10.30		
С	2.55	2.85		
D	—	4.16		
E	13.00	13.80		
F	0.50	0.75		
G	3.00 Ø	3.50 Ø		
Н	6.30	6.90		
I	4.20	4.80		
J	2.50	2.90		
K	0.50	0.75		
L	2.60	3.30		
Р	2.29	2.79		
All Dimensions in mm				



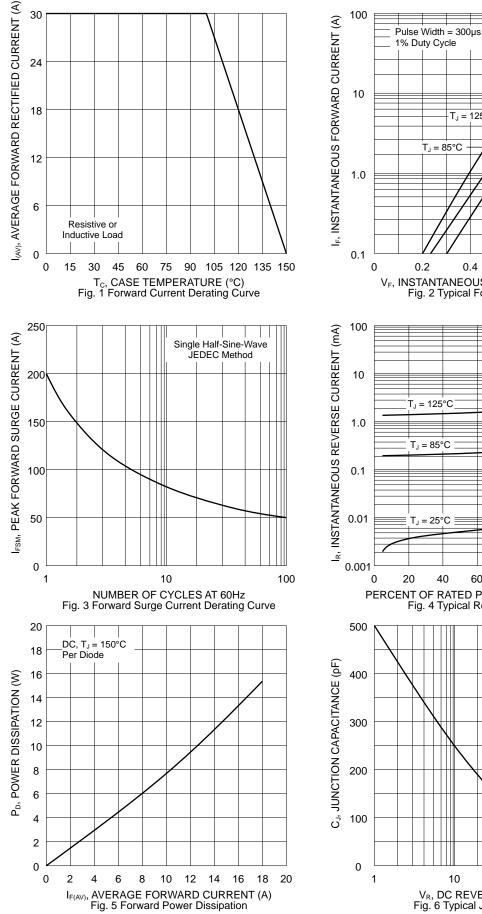
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

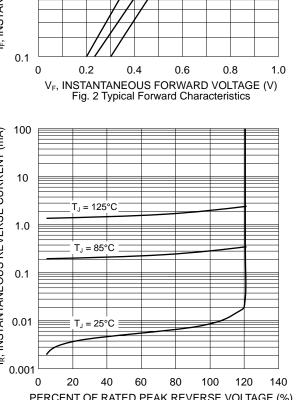
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.					
Characteristic	Symbol	SB30150FCT	SB30200FCT	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	200	V	
RMS Reverse Voltage	VR(RMS)	105	140	V	
Average Rectified Output CurrentTotal Device $@T_c = 100^{\circ}C$ Per Diode	lo	30 15		A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	200		A	
Forward Voltage per diode $@I_F = 15A, T_J = 25^{\circ}C$ $@I_F = 15A, T_J = 125^{\circ}C$	Vfm	0.92 0.82		V	
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Ігм	0. 1	.5 0	mA	
Typical Junction Capacitance (Note 1)	CJ	350		pF	
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC	52 4.0		°C/W	
RMS Isolation Voltage Terminals to Case, t = 1 min	Viso	1500		V	
Operating and Storage Temperature Range	Тј, Тѕтс	-55 to +150		°C	

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

# SB30150FCT - SB30200FCT



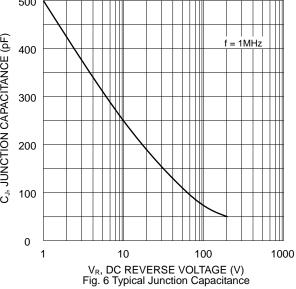




 $T_J = 125^{\circ}C$ 

 $T_J = 25^{\circ}C$ 

PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 4 Typical Reverse Characteristics

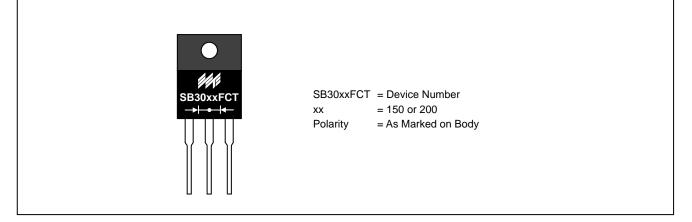


www.wontop.com 2

© Won-Top Electronics Co., Ltd. Revision: September, 2012



#### MARKING INFORMATION



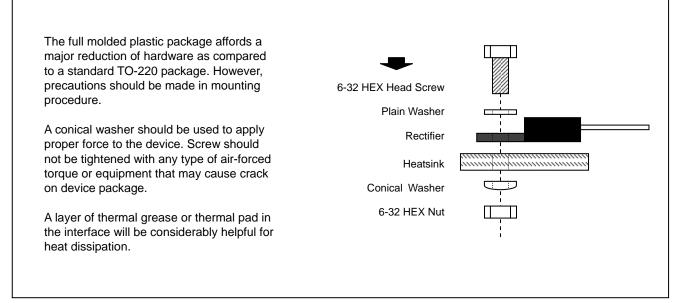
### PACKAGING INFORMATION

#### 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





Product No.	Package Type	Shipping Quantity
SB30150FCT	ITO-220	50 Units/Tube
SB30200FCT	ITO-220	50 Units/Tube

#### **ORDERING INFORMATION**

Shipping quantity given is for minimum packing quantity only. For minimum 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, SB30150FCT-LF.

WON-TOP ELECTRONICS and *we are registered trademarks of Won-Top Electronics Co., Ltd (WTE). 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 806, 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

