

# SB2020FCT - SB20100FCT

## 20A DUAL SCHOTTKY BARRIER RECTIFIER

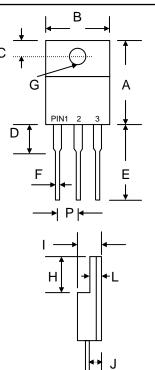


## Features

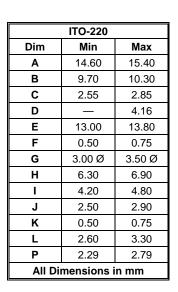
- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

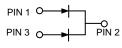
## **Mechanical Data**

- 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





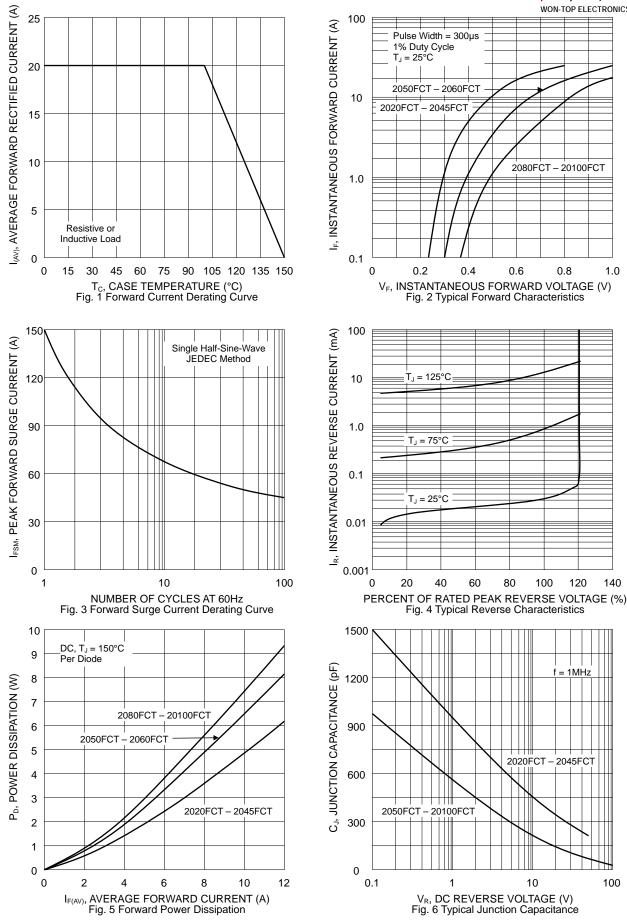
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.										
Characteristic	Symbol	SB 2020FCT	SB 2030FCT	SB 2040FCT	SB 2045FCT	SB 2050FCT	SB 2060FCT	SB 2080FCT	SB 20100FCT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	45	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	32	35	42	56	70	V
Average Rectified Output CurrentTotal Device@Tc = 100°CPer Diode	lo	20 10						А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150				A				
	Vfm		-	55 50		• •	75 65	-	85 75	V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Irm	0.5 20						mA		
Typical Junction Capacitance (Note 1)	CJ	650 350					pF			
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC	62 4.0						°C/W		
RMS Isolation Voltage, t = 1 min	Viso	1500						V		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C			

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

## **SB2020FCT – SB20100FCT**



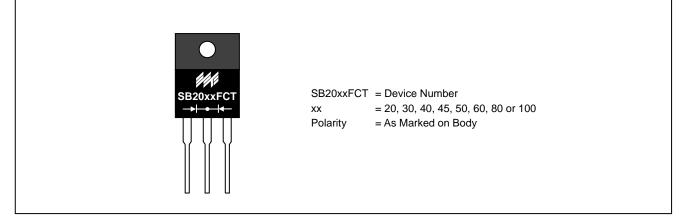


www.wontop.com

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



#### MARKING INFORMATION



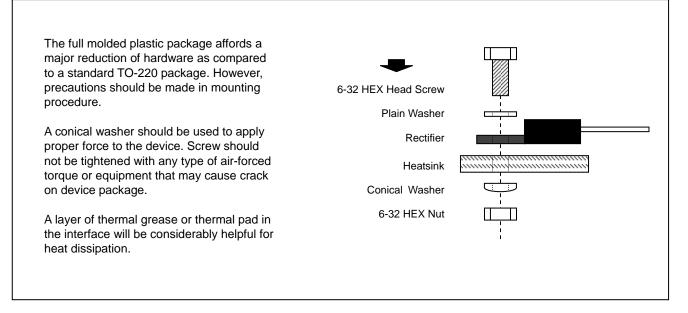
## PACKAGING INFORMATION

#### 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
SB2020FCT	ITO-220	50 Units/Tube
SB2030FCT	ITO-220	50 Units/Tube
SB2040FCT	ITO-220	50 Units/Tube
SB2045FCT	ITO-220	50 Units/Tube
SB2050FCT	ITO-220	50 Units/Tube
SB2060FCT	ITO-220	50 Units/Tube
SB2080FCT	ITO-220	50 Units/Tube
SB20100FCT	ITO-220	50 Units/Tube

#### **ORDERING INFORMATION**

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, SB2020FCT-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,

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

We power your everyday.