

# **SB20150FCT** (Rohs)

## 20A HIGH VOLTAGE DULA 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: ITO-220, Full Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

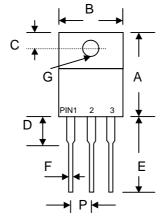
Polarity: See Diagram

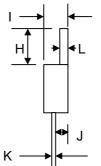
Weight: 2.24 grams (approx.)

Mounting Position: Any

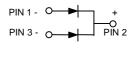
Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4





ITO-220				
Dim	Min	Max		
Α	14.60	15.40		
В	9.70	10.30		
С	2.55	2.85		
D	3.56	4.16		
Е	13.00	13.80		
F	0.30	0.90		
G	3.00 Ø	3.50 Ø		
Н	6.30	6.90		
I	4.20	4.80		
J	2.50	2.90		
K	0.36	0.80		
L	2.90	3.30		
Р	2.29	2.79		
All Dimensions in mm				

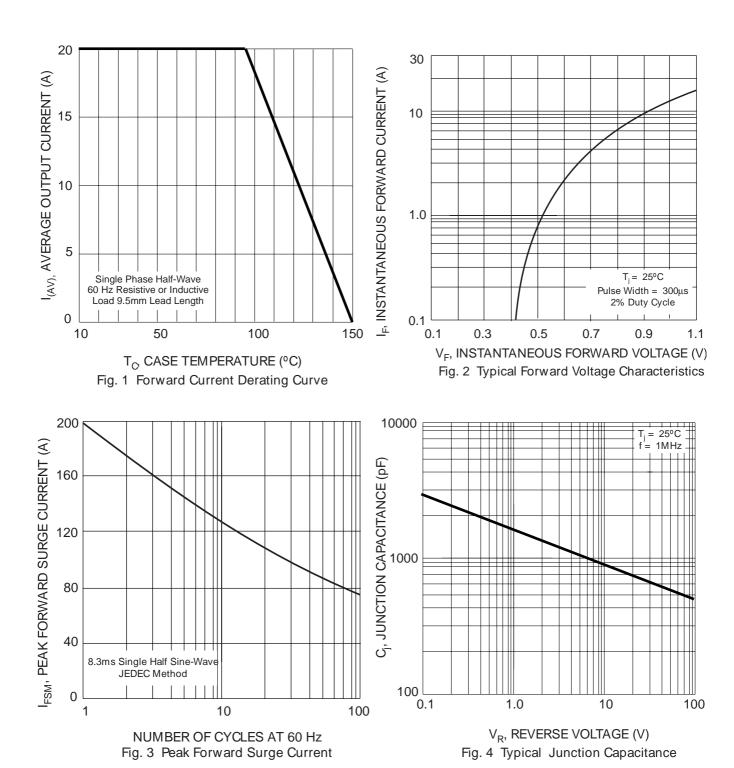


# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

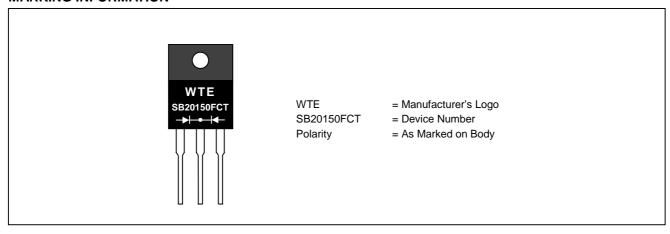
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SB20150FCT	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 <sub>C</sub> = 95°C	lo	20	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200	А
Forward Voltage @I <sub>F</sub> = 10A	VFM	0.92	V
	IRM	0.5 100	mA
Typical Junction Capacitance (Note 1)	Cj	1100	pF
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150	°C

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



## **MARKING INFORMATION**



#### PACKAGING INFORMATION

#### **BULK**

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

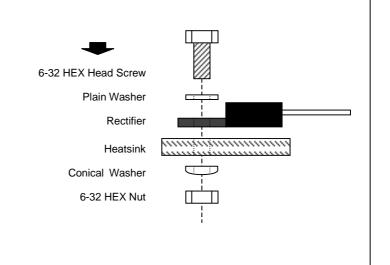
Note: 1. Anti-static tube, water clear color.

## RECOMMENDED SCREW MOUNTING ARRANGEMENT

The full molded plastic package affords a major reduction of hardware as compared to a standard TO-220 package. However, precautions should be made in mounting procedure.

A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced torque or equipment that may cause crack on device package.

A layer of thermal grease or thermal pad in the interface will be considerably helpful for heat dissipation.



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#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
SB20150FCT	ITO-220	50 Units/Tube

- 1. 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, SB20150FCT-LF. 2.

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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.

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