

# **SB1020F - SB10100F**

# **10A ISOLATION SCHOTTKY BARRIER RECTIFIER**

#### **Features**

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

### **Mechanical Data**

Case: ITO-220A Full Molded Plastic

Terminals: Plated Leads Solderable per

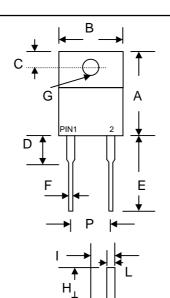
MIL-STD-202, Method 208

Polarity: See Diagram

Weight: 2.24 grams (approx.)

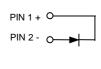
Mounting Position: Any

Marking: Type Number



ITO-220A					
Dim	Min	Max			
Α	14.9	15.1			
В	_	10.5			
С	2.62	2.87			
D	3.56	4.06			
Е	13.46	14.22			
F	0.68	0.94			
G	3.74 Ø	3.91 Ø			
Н	5.84	6.86			
ı	4.44	4.70			
J	2.54	2.79			
K	0.35	0.64			
L	1.14	1.40			
Р	4.95	5.20			
All Dimensions in mm					





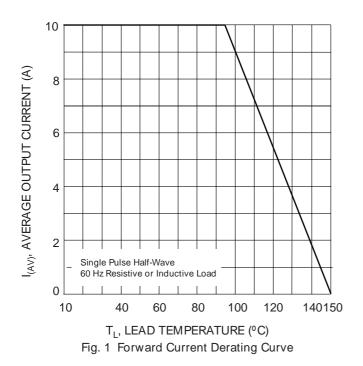
# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

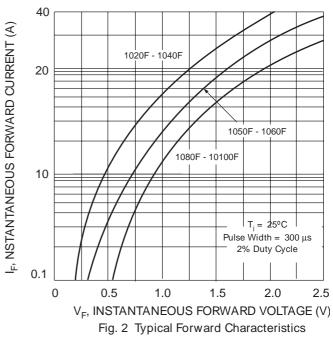
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

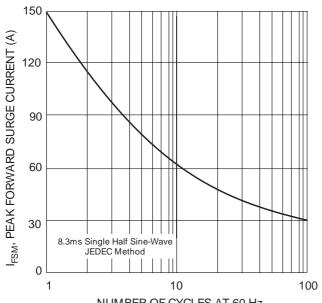
Characteristic	Symbol	SB 1020F	SB 1030F	SB 1040F	SB 1050F	SB 1060F	SB 1080F	SB 10100F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current @T <sub>C</sub> = 95°C	lo	10						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					А		
Forward Voltage @I <sub>F</sub> = 10A	VFM	0.55 0.75 0.85			85	V			
	lкм	0.5 50				mA			
Typical Junction Capacitance (Note 1)	Cj	700					pF		
Typical Thermal Resistance Junction to Case (Note 2)	RθJC	3.5					K/W		
Operating and Storage Temperature Range	Тj, Тsтg	-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.









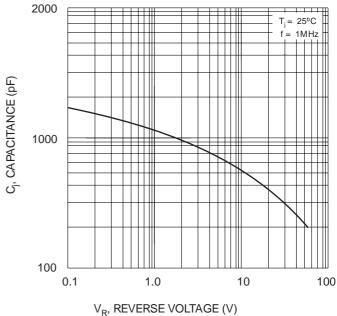


Fig. 4 Typical Junction Capacitance

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
SB1020F	ITO-220A	50 Units/Tube
SB1030F	ITO-220A	50 Units/Tube
SB1040F	ITO-220A	50 Units/Tube
SB1050F	ITO-220A	50 Units/Tube
SB1060F	ITO-220A	50 Units/Tube
SB1080F	ITO-220A	50 Units/Tube
SB10100F	ITO-220A	50 Units/Tube

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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

