

# **SB820F - SB8100F**

# 8.0A 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

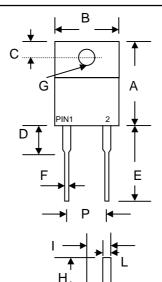
MIL-STD-202, Method 208

Polarity: See Diagram

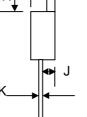
Weight: 2.24 grams (approx.)

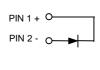
Mounting Position: Any

Marking: Type Number



ITO-220A					
Dim	Min	Max			
Α	14.9	15.1			
В	_	10.5			
C	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			
H	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					





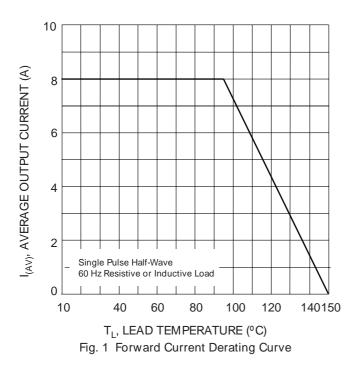
# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

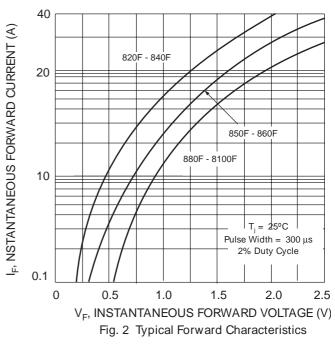
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

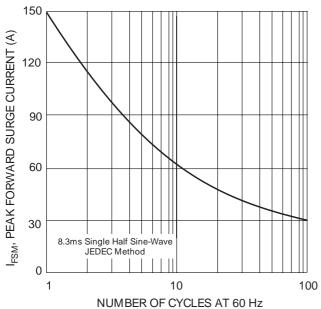
Characteristic	Symbol	SB 820F	SB 830F	SB 840F	SB 850F	SB 860F	SB 880F	SB 8100F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current @T <sub>C</sub> = 95°C	lo	8.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					А		
Forward Voltage $@I_F = 8.0A$	VFM	0.55 0.75 0.85			85	V			
	IRM	0.5 50				mA			
Typical Junction Capacitance (Note 1)	Cj	700					pF		
Typical Thermal Resistance Junction to Case (Note 2)	RθJC	6.9					K/W		
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150					°C		

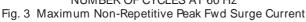
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.









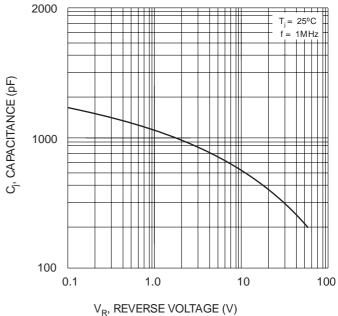


Fig. 4 Typical Junction Capacitance

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
SB820F	ITO-220A	50 Units/Tube
SB830F	ITO-220A	50 Units/Tube
SB840F	ITO-220A	50 Units/Tube
SB850F	ITO-220A	50 Units/Tube
SB860F	ITO-220A	50 Units/Tube
SB880F	ITO-220A	50 Units/Tube
SB8100F	ITO-220A	50 Units/Tube

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

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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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