



8.0A 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-220A, Full Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

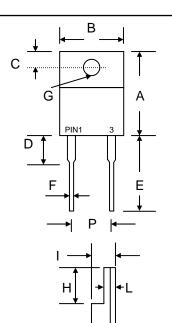
Polarity: See Diagram

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



ITO-220A						
Dim	Min	Max				
Α	14.60	15.40				
В	9.70	10.30				
С	2.55	2.85				
D	ı	4.16				
E	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	2.60	3.30				
Р	4.83	5.33				
All Dimensions in mm						



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

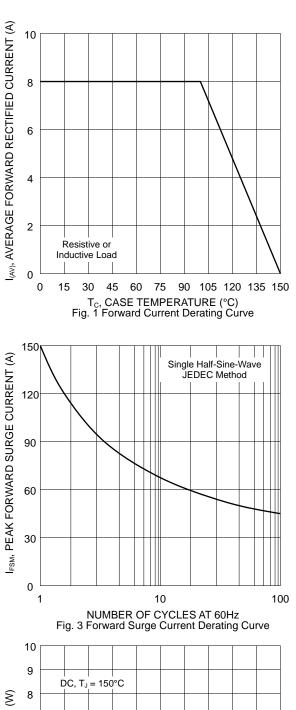
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

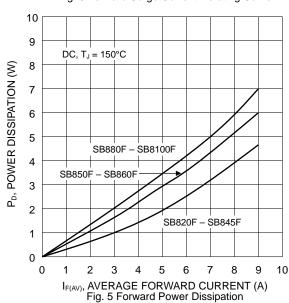
Characteristic	Symbol	SB 820F	SB 830F	SB 840F	SB 845F	SB 850F	SB 860F	SB 880F	SB 8100F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	45	50	60	80	100	٧
RMS Reverse Voltage	VR(RMS)	14	21	28	32	35	42	56	70	V
Average Rectified Output Current @T _C = 100°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							Α	
Forward Voltage @I _F = 8.0A	VFM	0.55 0.75 0.85					85	V		
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	IRM	0.2 20							mA	
Typical Junction Capacitance (Note 1)	Cı	450				35	50	pF		
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case	R JA R JC	75 5.0							°C/W	
RMS Isolation Voltage, t = 1 min	Viso	1500							V	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150						°C		

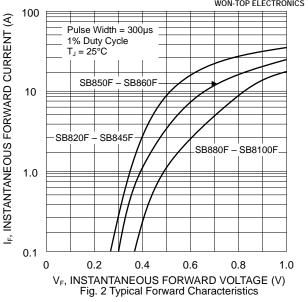
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

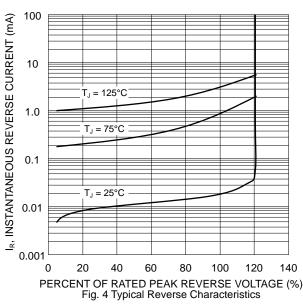
SB820F - SB8100F

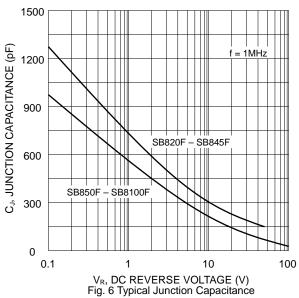






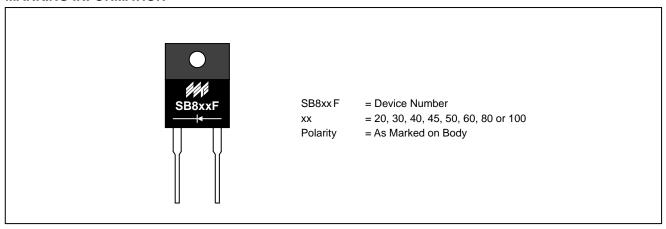








MARKING INFORMATION



PACKAGING INFORMATION

BULK

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

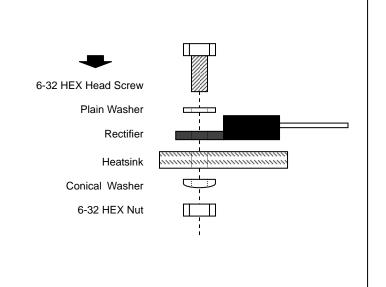
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

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.





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
SB845F	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.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB820F-LF.

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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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