

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: TO-220A, Molded Plastic

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

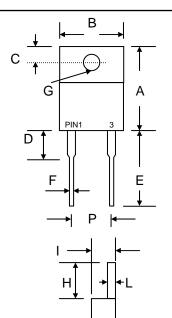
Polarity: See Diagram

Weight: 1.9 grams (approx.)

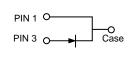
Mounting Position: Any

Mounting Torque: 0.6 N.m Max.

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



TO-220A						
Dim	Min	Max				
Α	13.90	15.90				
В	9.80	10.70				
С	2.54	3.43				
D	3.56	4.56				
Е	12.70	14.73				
F	0.51	0.96				
G	3.55 Ø	4.09 Ø				
Н	5.75	6.85				
ı	4.16	5.00				
J	2.03	2.92				
K	0.30	0.65				
L	1.14	1.40				
Р	4.83	5.33				
All Dimensions in mm						



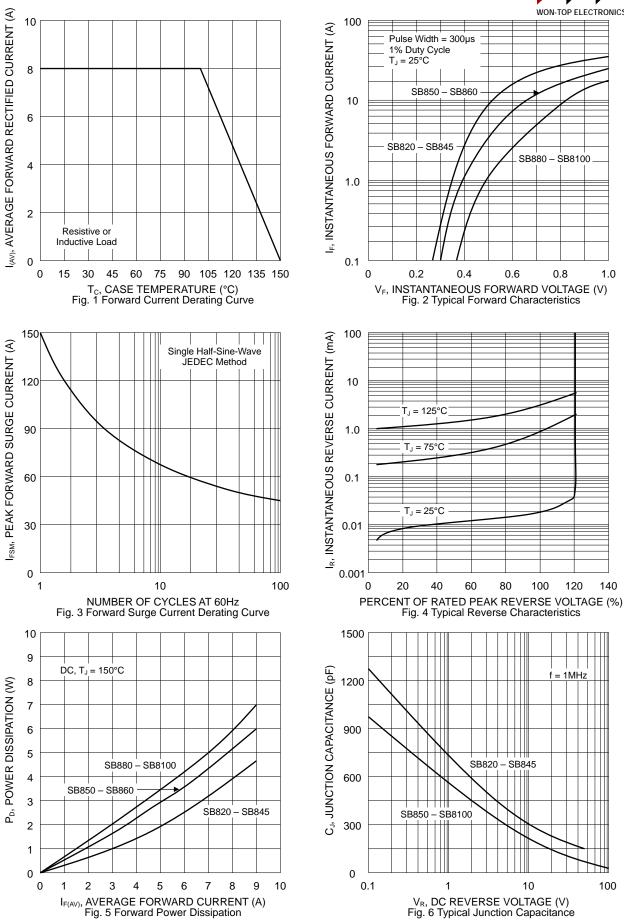
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	SB 820	SB 830	SB 840	SB 845	SB 850	SB 860	SB 880	SB 8100	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 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						А		
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)	Сл	450 350				pF				
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case	R JA R JC	73 3.0						°C/W		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150							°C	

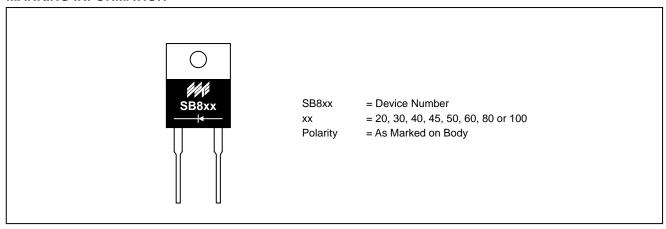
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.







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

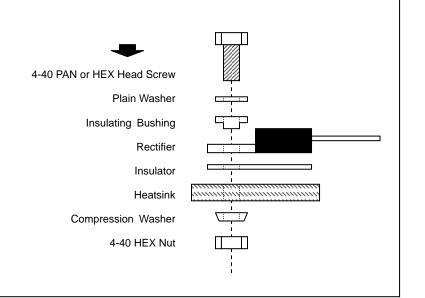
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

Recommended isolated mounting when screw is at heatsink potential. 4-40 hardware is used.

Screw should not be tightened with any type of air-forced torque or equipment that may cause high impact on device package. The insulating bushing inside the mounting hole will insure the screw threads do not contact the metal base.

The interface should apply a layer of thermal grease or a highly conductive thermal pad for better heat dissipation.



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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
SB820	TO-220A	50 Units/Tube		
SB830	TO-220A	50 Units/Tube		
SB840	TO-220A	50 Units/Tube		
SB845	TO-220A	50 Units/Tube		
SB850	TO-220A	50 Units/Tube		
SB860	TO-220A	50 Units/Tube		
SB880	TO-220A	50 Units/Tube		
SB8100	TO-220A	50 Units/Tube		

- Shipping quantity given is for minimum packing quantity only. For minimum 1. 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, SB820-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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