

SB820 – SB8100 🏦 🕅

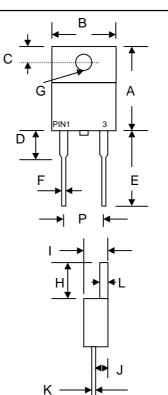
8.0A SCHOTTKY BARRIER RECTIFIER

Features

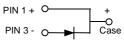
- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

- Case: TO-220A, 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



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				
I	4.16	5.00				
J	2.03	2.92				
ĸ	0.30	0.65				
L	1.14	1.40				
Р	4.83	5.33				
All Dimensions in mm						



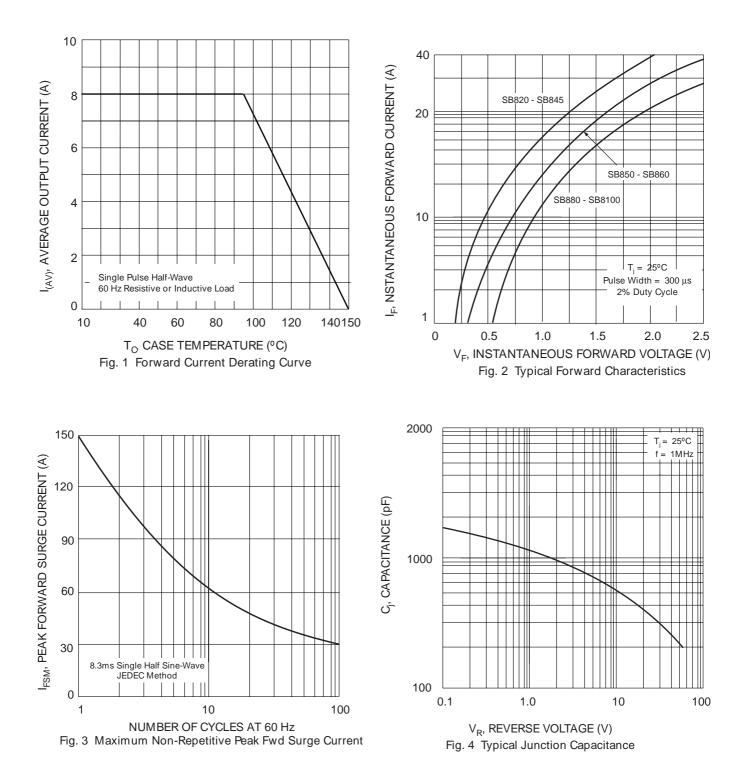
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

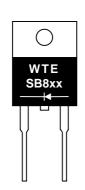
Characteristic	Symbol	SB 820	SB 830	SB 840	SB 845	SB 850	SB 860	SB 880	SB 8100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	45	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	32	35	42	56	70	V
Average Rectified Output Current @T _c = 95°C	ю	8.0							А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150						A		
Forward Voltage $@I_F = 8.0A$	Vfm	0.55 0.75 0.85					V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	I RM	0.5 50						mA		
Typical Junction Capacitance (Note 1)	Cj	700						pF		
Typical Thermal Resistance (Note 2)	R	3.0						°C/W		
Operating and Storage Temperature Range	Тj, Tsтg	-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.



MARKING INFORMATION



= Manufacturer's Logo
= Device Number
= 20, 30, 40, 45, 50, 60, 80 or 100
= As Marked on Body

PACKAGING INFORMATION

BULK

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

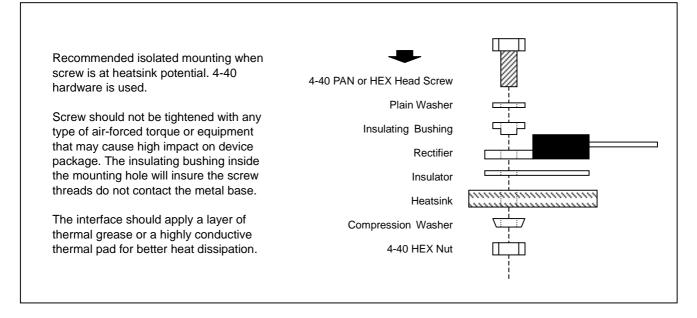
WTE

xx Polarity

SB8xx

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

RECOMMENDED SCREW MOUNTING ARRANGEMENT



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			

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, SB820-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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