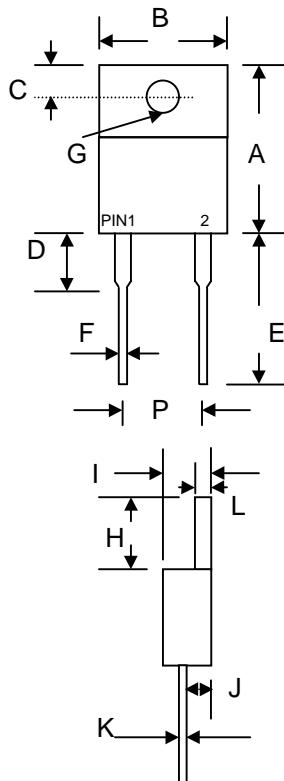


Features

- 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

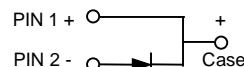
Mechanical Data

- Case: 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
- Marking: Type Number



TO-220A		
Dim	Min	Max
A	14.9	15.1
B	—	10.5
C	2.62	2.87
D	3.56	4.06
E	13.46	14.22
F	0.68	0.94
G	3.74 Ø	3.91 Ø
H	5.84	6.86
I	4.44	4.70
J	2.54	2.79
K	0.35	0.64
L	1.14	1.40
P	4.95	5.20

All Dimensions in mm


Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	SB820	SB830	SB840	SB850	SB860	SB880	SB8100	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}	20	30	40	50	60	80	100	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	56	70	V
Average Rectified Output Current @ $T_C = 95^\circ\text{C}$	I _o								A
Non-Repetitive Peak Forward Surge Current 8.3ms	I _{FSM}								
Single half sine-wave superimposed on rated load (JEDEC Method)									A
Forward Voltage @ $I_F = 8.0\text{A}$	V _{FM}								V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	I _{RM}								mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$									
Typical Junction Capacitance (Note 1)	C _j								pF
Typical Thermal Resistance Junction to Case (Note 2)	R _{θJC}								K/W
Operating and Storage Temperature Range	T _j , T _{STG}								°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.

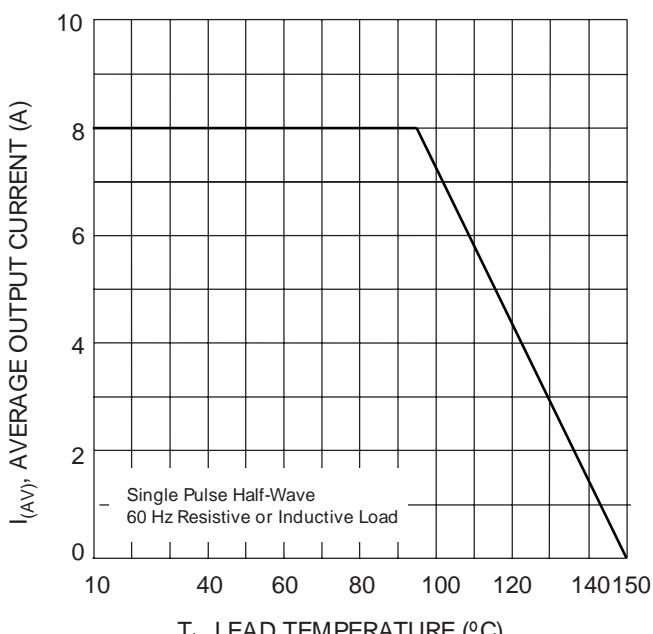


Fig. 1 Forward Current Derating Curve

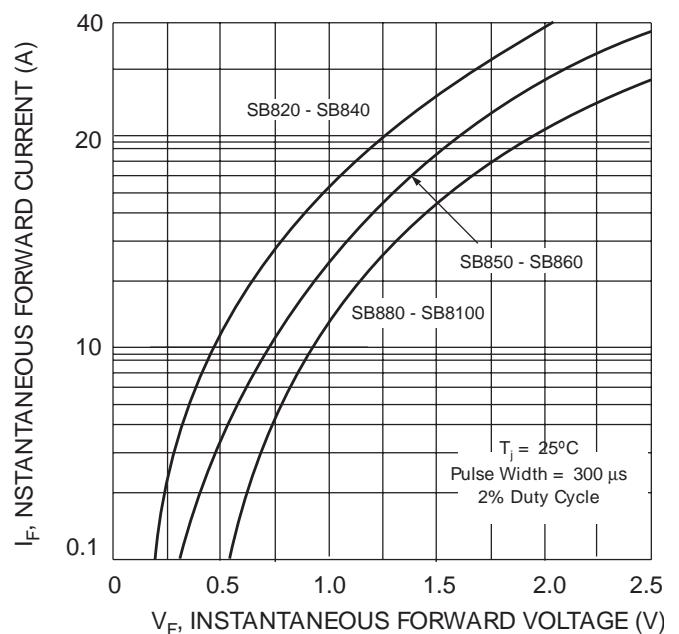


Fig. 2 Typical Forward Characteristics

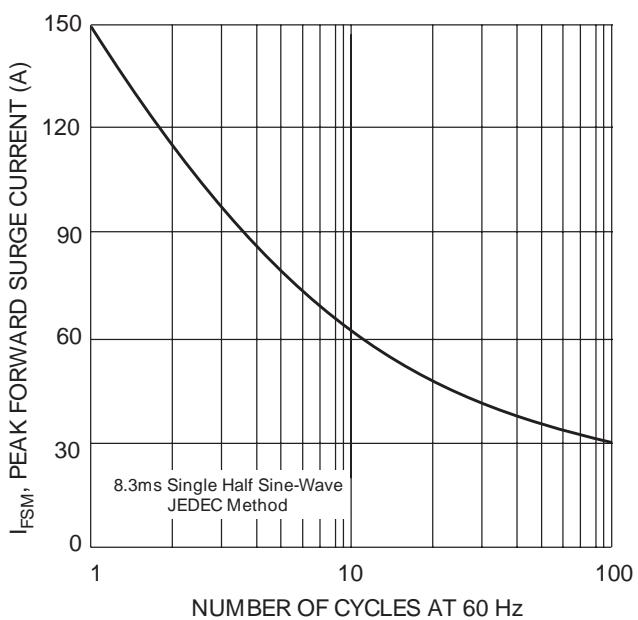


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

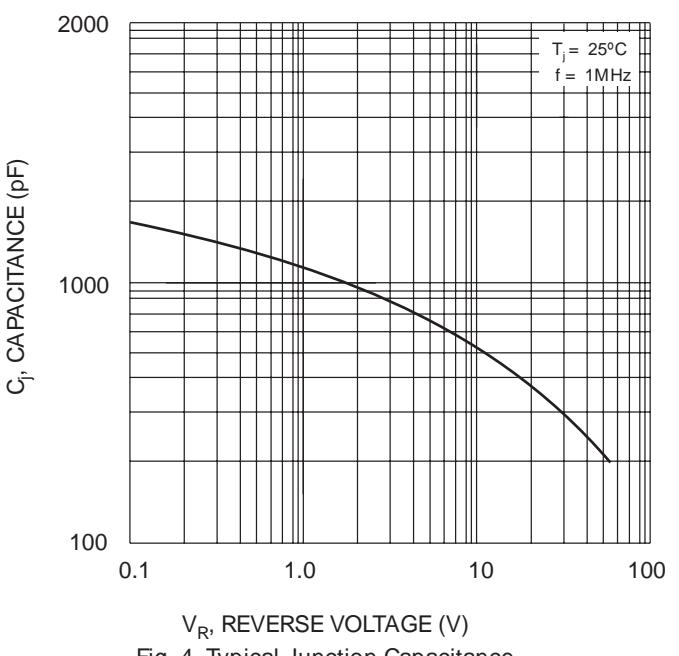


Fig. 4 Typical Junction Capacitance

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
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 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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