

SB1020 - SB10100

10A 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: TO-220A Molded Plastic

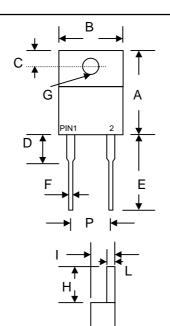
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

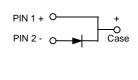
Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number



TO-220A						
Dim	Min	Max				
Α	14.9	15.1				
В		10.5				
С	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				
Н	5.84	6.86				
I	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						



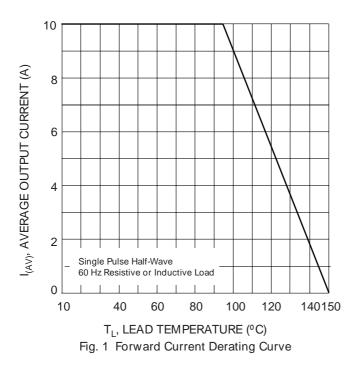
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

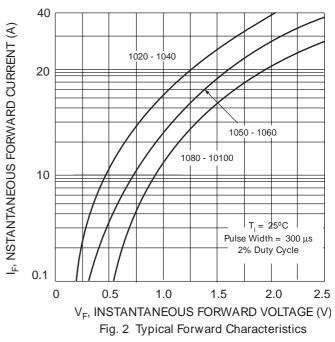
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

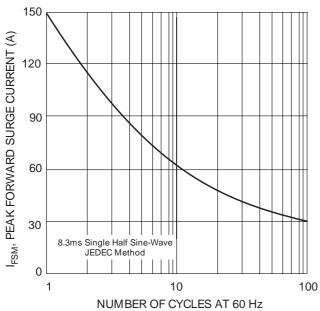
Characteristic	Symbol	SB 1020	SB 1030	SB 1040	SB 1050	SB 1060	SB 1080	SB 10100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	80	100	٧
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current @T _C = 95°C	lo	10						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	150					А		
Forward Voltage @I _F = 10A	VFM	0.55 0.75 0.85			85	٧			
	IRM	0.5 50			mA				
Typical Junction Capacitance (Note 1)	Cj	700					pF		
Typical Thermal Resistance Junction to Case (Note 2)	RθJC	3.5					K/W		
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150					°C		

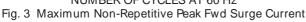
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.









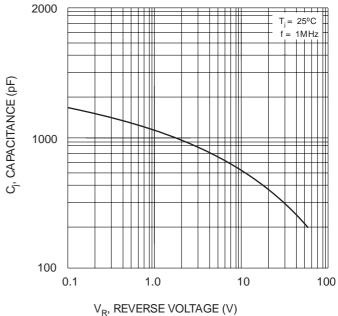


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB1020	TO-220A	50 Units/Tube
SB1030	TO-220A	50 Units/Tube
SB1040	TO-220A	50 Units/Tube
SB1050	TO-220A	50 Units/Tube
SB1060	TO-220A	50 Units/Tube
SB1080	TO-220A	50 Units/Tube
SB10100	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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