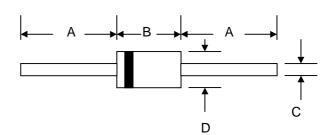


SB220 - SB260

2.0A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



Mechanical Data

Case: Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.40 grams (approx.)

Mounting Position: Any

Marking: Type Number

DO-15					
Dim	Min	Max			
Α	25.4	_			
В	5.50	7.62			
С	0.71	0.864			
D	2.60	3.60			
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	SB220	SB230	SB240	SB250	SB260	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	V
Average Rectified Output Current (Note 1) @T _L = 100°C	lo	2.0				Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM			50			А
Forward Voltage @I _F = 2.0A	VFM	0.50 0.70		70	V		
	IRM			0.5 10			mA
Typical Junction Capacitance (Note 2)	Cj	170 140			40	pF	
Typical Thermal Resistance Junction to Lead	R_{θ} JL	15				K/W	
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}JA$	50					K/W
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150					°C

Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

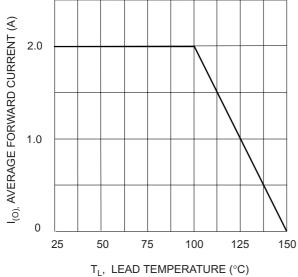
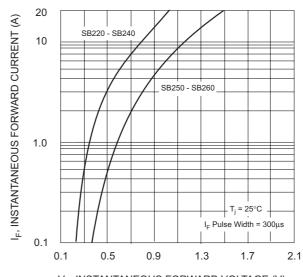
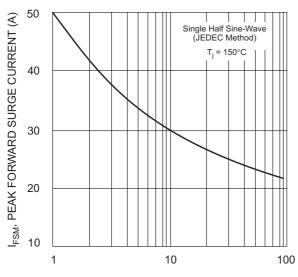


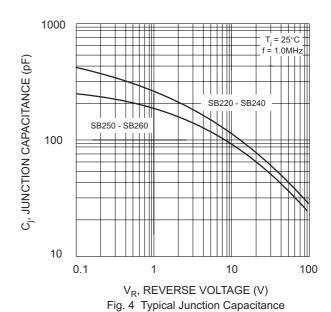
Fig. 1 Forward Current Derating Curve



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



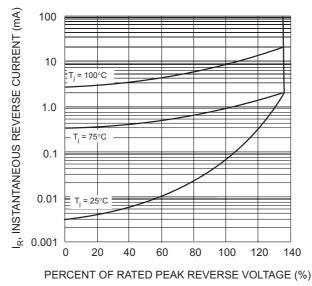


Fig. 5 Typical Reverse Characteristics

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity		
SB220-T3	DO-15	4000/Tape & Reel		
SB220-TB	DO-15	3000/Tape & Box		
SB220	DO-15	1000 Units/Box		
SB230-T3	DO-15	4000/Tape & Reel		
SB230-TB	DO-15	3000/Tape & Box		
SB230	DO-15	1000 Units/Box		
SB240-T3	DO-15	4000/Tape & Reel		
SB240-TB	DO-15	3000/Tape & Box		
SB240	DO-15	1000 Units/Box		
SB250-T3	DO-15	4000/Tape & Reel		
SB250-TB	DO-15	3000/Tape & Box		
SB250	DO-15	1000 Units/Box		
SB260-T3	DO-15	4000/Tape & Reel		
SB260-TB	DO-15	3000/Tape & Box		
SB260	DO-15	1000 Units/Box		

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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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Products listed in **bold** are WTE **Preferred** devices.

T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.