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# SB120 - SB1100

#### Features

- 1.0 ampere operation at T<sub>A</sub> = 75°C with no thermal runaway.
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.



COLOR BAND DENOTES CATHODE

## **Schottky Rectifiers**

### Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter		Value							
		120	130	140	150	160	180	1100		
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	100	V	
I <sub>F(AV)</sub>	Average Rectified Forward Current .375 " lead length @ T <sub>A</sub> = 75°C	1.0					A			
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30						А		
T <sub>stg</sub>	Storage Temperature Range	-65 to +125					°C			
TJ	Operating Junction Temperature	-65 to +125					°C			

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

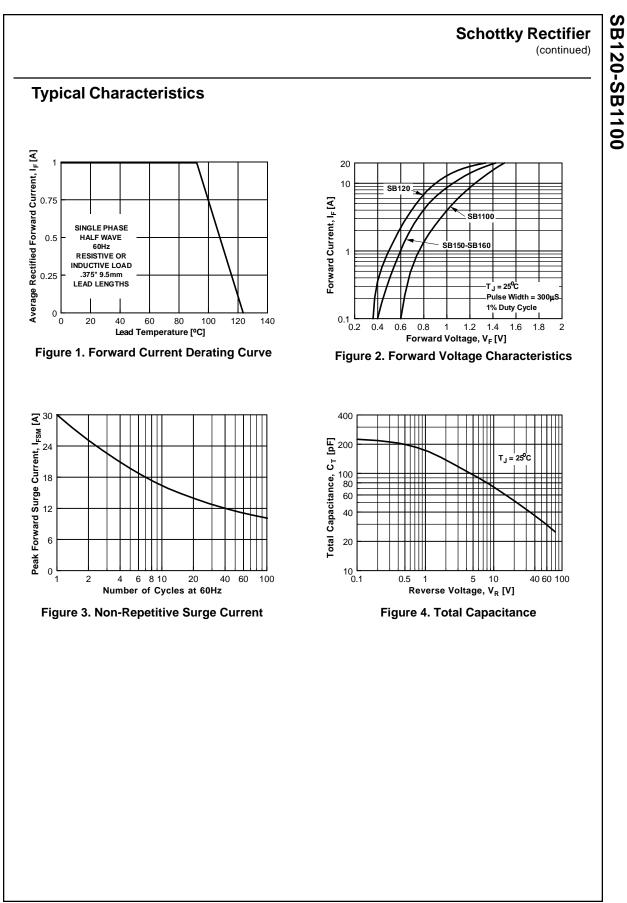
### **Thermal Characteristics**

Symbol	Parameter	Value	Units	
P <sub>D</sub>	Power Dissipation	1.25	W	
$R_{ ext{ hetaJA}}$	Thermal Resistance, Junction to Ambient	80	°C/W	

### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Device							Units
		120	130	140	150	160	180	1100	
V <sub>F</sub>	Forward Voltage @ 1.0 A	500 700 850				50	mV		
I <sub>R</sub>	Reverse Current @ rated $V_R$ $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	0.5 10					mA mA		
۱ <sub>۳</sub>	Maximum Full Load Reverse Current, Full Cycle T <sub>A</sub> = 75°C	30					mA		
C <sub>T</sub>	Total Capacitance V <sub>R</sub> = 4.0 V, f = 1.0 MHz	110					pF		

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SB120-SB1100, Rev. C

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