

# **SB2020CT - SB20100CT**

## **20A 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-220 Molded Plastic

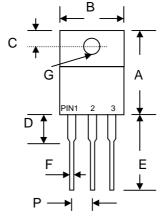
 Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026

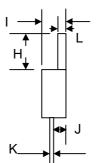
Polarity: As Marked on Body

• Weight: 2.24 grams (approx.)

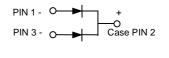
Mounting Position: Any

Marking: Type Number





TO-220						
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				
ı	4.44	4.70				
J	2.54	2.79				
K	0.35	0.64				
L	1.14	1.40				
Р	2.41	2.67				
All Dimensions in mm						

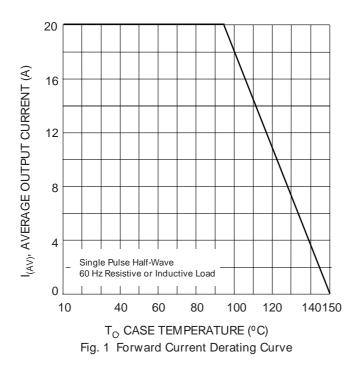


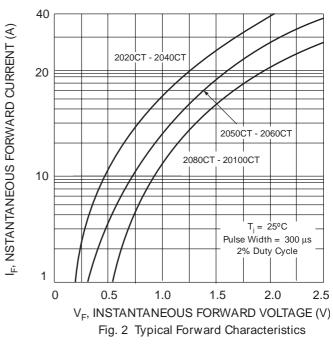
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

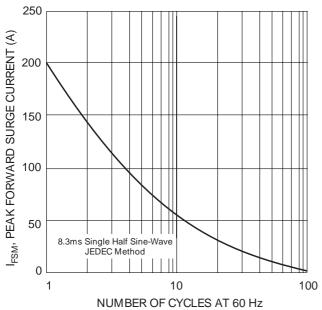
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

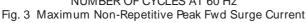
Characteristic	Symbol	SB 2020CT	SB 2030CT	SB 2040CT	SB 2050CT	SB 2060CT	SB 2080CT	SB 20100CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current @T <sub>C</sub> = 95°C	lo	20					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200					А		
Forward Voltage @I <sub>F</sub> = 10A	VFM	0.55 0.75 0.85			85	V			
	lгм	0.5 100					mA		
Typical Junction Capacitance (Note 1)	Cj	1100					•	pF	
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150					°C		

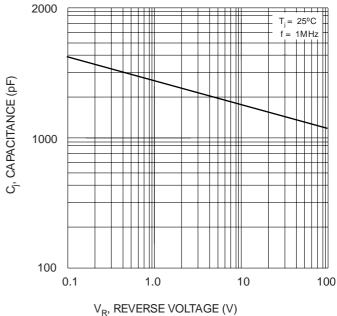
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.











V<sub>R</sub>, REVERSE VOLIAGE (V)
Fig. 4 Typical Junction Capacitance

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
SB2020CT	TO-220	50 Units/Tube
SB2030CT	TO-220	50 Units/Tube
SB2040CT	TO-220	50 Units/Tube
SB2050CT	TO-220	50 Units/Tube
SB2060CT	TO-220	50 Units/Tube
SB2080CT	TO-220	50 Units/Tube
SB20100CT	TO-220	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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