

SB1020CT - SB10100CT

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-220 Molded Plastic

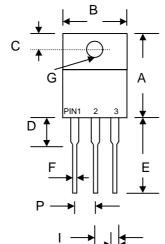
 Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026

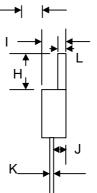
Polarity: As Marked on Body

• 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			
I	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					

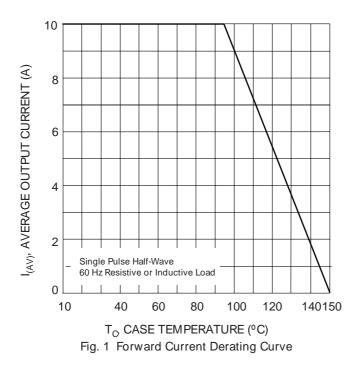
PIN 1 - 0 + 0 Case PIN 2

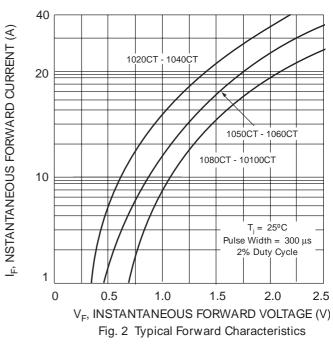
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

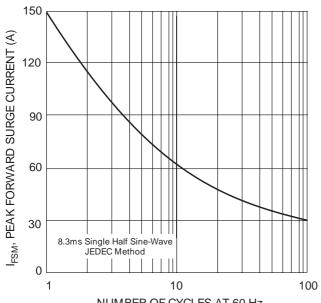
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SB 1020CT	SB 1030CT	SB 1040CT	SB 1050CT	SB 1060CT	SB 1080CT	SB 10100CT	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 _C = 95°C	lo	10					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					А		
Forward Voltage $@I_F = 5.0A$	VFM	0.55 0.75 0.85		85	V				
	IRM	0.5 50					mA		
Typical Junction Capacitance (Note 1)	Cj	700						pF	
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150					°C		

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









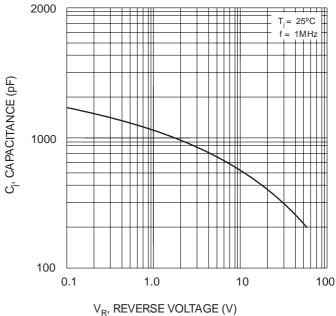


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB1020CT	TO-220	50 Units/Tube
SB1030CT	TO-220	50 Units/Tube
SB1040CT	TO-220	50 Units/Tube
SB1050CT	TO-220	50 Units/Tube
SB1060CT	TO-220	50 Units/Tube
SB1080CT	TO-220	50 Units/Tube
SB10100CT	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.

Won-Top Electronics Co., Ltd.
No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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