

SB10150CT - SB10200CT

10A HIGH VOLTAGE DUAL SCHOTTKY BARRIER RECTIFIER

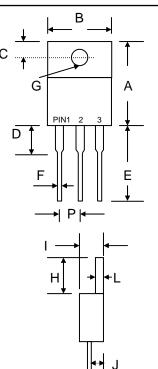


Features

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

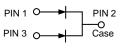
Mechanical Data

- Case: TO-220, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.9 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 0.6 N.m Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



Κ

| TO-220 | | | | |
|----------------------|--------|--------|--|--|
| Dim | Min | Max | | |
| Α | 13.90 | 15.90 | | |
| В | 9.80 | 10.70 | | |
| С | 2.54 | 3.43 | | |
| D | 3.56 | 4.56 | | |
| Е | 12.70 | 14.73 | | |
| F | 0.51 | 0.96 | | |
| G | 3.55 Ø | 4.09 Ø | | |
| н | 5.75 | 6.85 | | |
| I | 4.16 | 5.00 | | |
| J | 2.03 | 2.92 | | |
| К | 0.30 | 0.65 | | |
| L | 1.14 | 1.40 | | |
| Р | 2.29 | 2.79 | | |
| 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%.

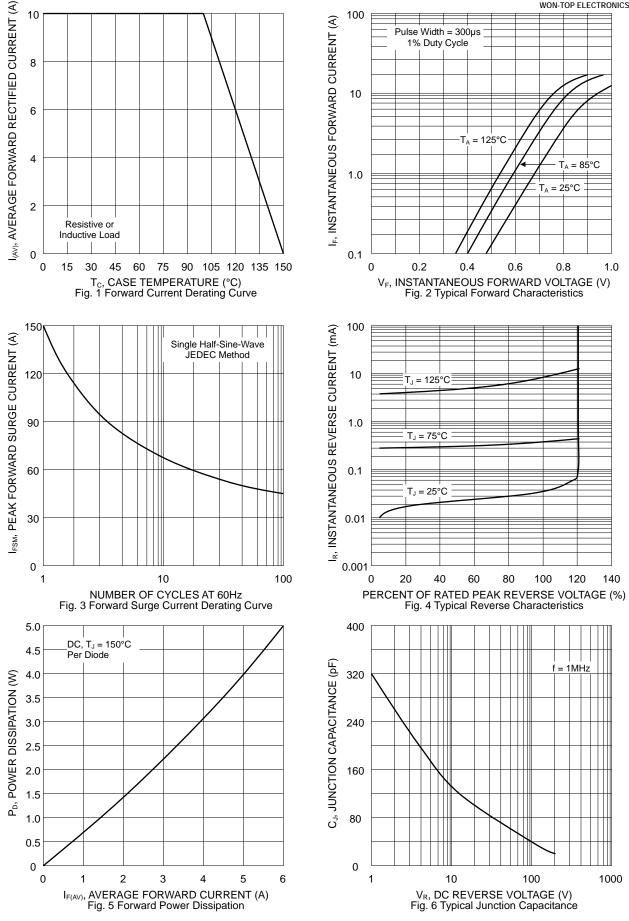
| Characteristic | Symbol | SB10150CT | SB10200CT | Unit |
|---|--------------------|-----------|-----------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 150 | 200 | V |
| RMS Reverse Voltage | VR(RMS) | 105 | 140 | V |
| Average Rectified Output CurrentTotal Device $@T_c = 100^{\circ}C$ Per Diode | lo | 1 5. | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) | IFSM | 15 | 50 | A |
| Forward Voltage per diode $@I_F = 5.0A$ | Vfm | 0.9 | 92 | V |
| Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$ | Ігм | 0. 1 | | mA |
| Typical Junction Capacitance (Note 1) | CJ | 20 | 00 | pF |
| Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode | R JA R JC | 60 2.0 | | °C/W |
| Operating and Storage Temperature Range | ТJ, Tstg | -55 to | +150 | °C |

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

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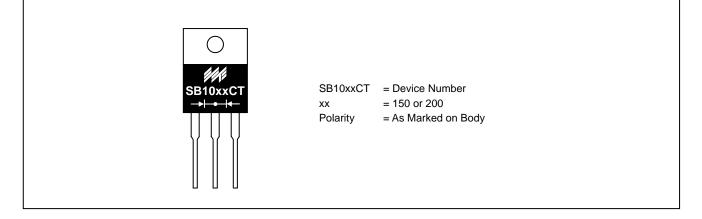


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MARKING INFORMATION



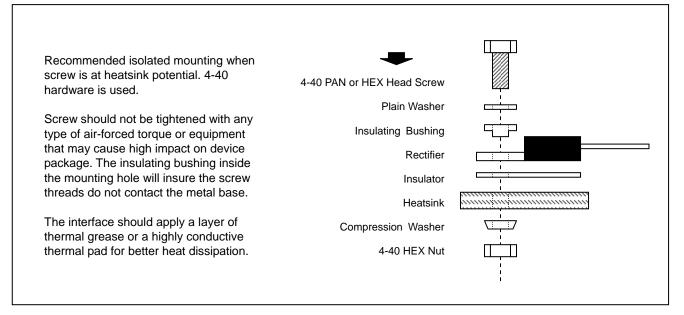
PACKAGING INFORMATION

BULK

| Tube Size | Quantity | Inner Box Size | Quantity | Carton Size | Quantity | Approx. Gross Weight |
|----------------|----------|----------------|----------|-----------------|----------|----------------------|
| L x W x H (mm) | (PCS) | L x W x H (mm) | (PCS) | L x W x H (mm) | (PCS) | (KG) |
| 525 x 31 x 6 | 50 | 555 x 145 x 95 | 2,000 | 572 x 306 x 218 | 8,000 | 19.0 |

Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT



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| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| SB10150CT | TO-220 | 50 Units/Tube |
| SB10200CT | TO-220 | 50 Units/Tube |

ORDERING INFORMATION

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
To order RoHS / Lead Free version (with Lead Free finish), add "-LF"

suffix to part number above. For example, SB10150CT-LF.

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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 806, 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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