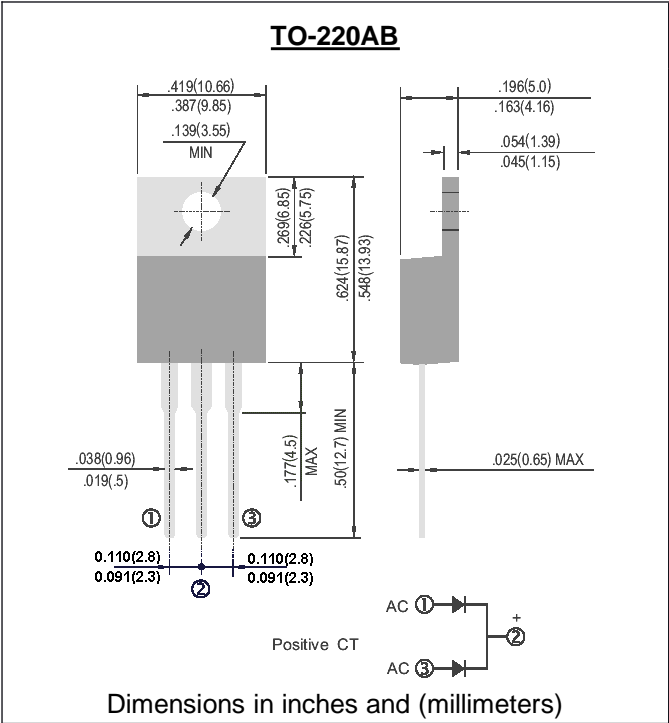


|                                   |                       |
|-----------------------------------|-----------------------|
| <b>SB10200CT</b>                  |                       |
| <b>SCHOTTKY BARRIER RECTIFIER</b> |                       |
| <b>VOLTAGE: 200V</b>              | <b>CURRENT: 10.0A</b> |



|  |
|--|
| <p><b>FEATURE</b></p> <p>High current capability, Low forward voltage drop<br/>         Low power loss, high efficiency<br/>         High surge capability<br/>         High temperature soldering guaranteed<br/>         250°C /10sec/0.375" lead length at 5 lbs tension</p> <p><b>MECHANICAL DATA</b></p> <p>Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C<br/>         Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy<br/>         Polarity: Common Cathode<br/>         Mounting position: any</p> |
|--|



| <b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b><br>(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated) |                                    |             |           |
|---|------------------------------------|-------------|-----------|
|   | SYMBOL                             | SB10200CT   | units     |
| Maximum Recurrent Peak Reverse Voltage  | V <sub>rrm</sub>                   | 200         | V         |
| Maximum RMS Voltage   | V <sub>rms</sub>                   | 140         | V         |
| Maximum DC blocking Voltage   | V <sub>dc</sub>                    | 200         | V         |
| Maximum Average Forward Rectified Current   | I <sub>f(av)</sub>                 | 10          | A         |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load per leg   | I <sub>fsm</sub>                   | 150         | A         |
| Maximum Forward Voltage per leg and 25°C at 5A  | V <sub>f</sub>                     | 0.99        | V         |
| Maximum Reverse Current per leg at working peak reverse voltage   | I <sub>r</sub>                     | 50<br>1.0   | μ A<br>mA |
| Typical Thermal Resistance per leg (Note 1)   | R <sub>th(jc)</sub>                | 1.5         | °C/W      |
| Operating Junction and Storage Temperature Range  | T <sub>j</sub><br>T <sub>stg</sub> | -65 to +175 | °C        |
| <p>Note:</p> <p>1. Thermal Resistance from Junction to Case</p>   |                                    |             |           |

## RATINGS AND CHARACTERISTIC CURVES SB10200CT

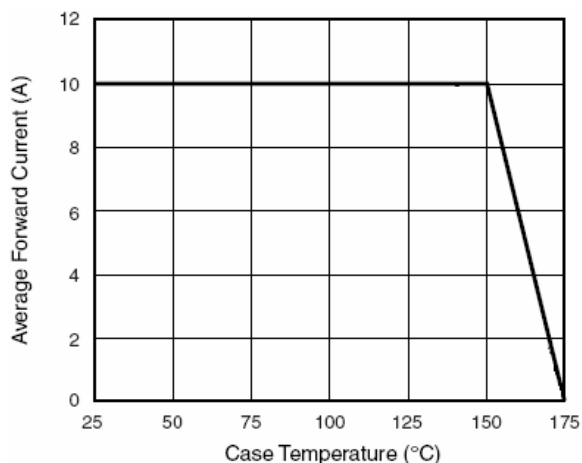


Figure 1. Forward Derating Curve (Total)

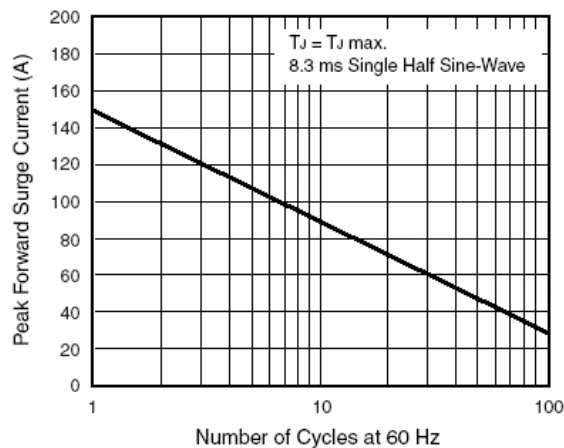


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

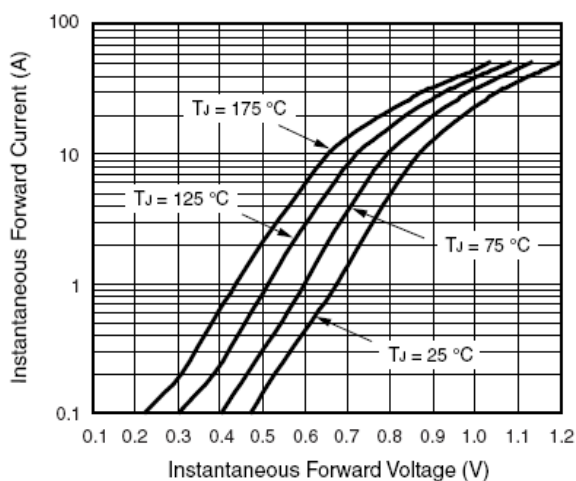


Figure 3. Typical Instantaneous Forward Characteristics Per Diode

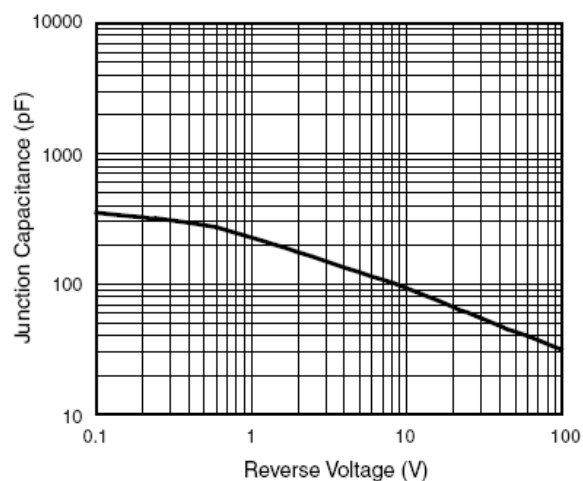


Figure 5. Typical Junction Capacitance Per Diode

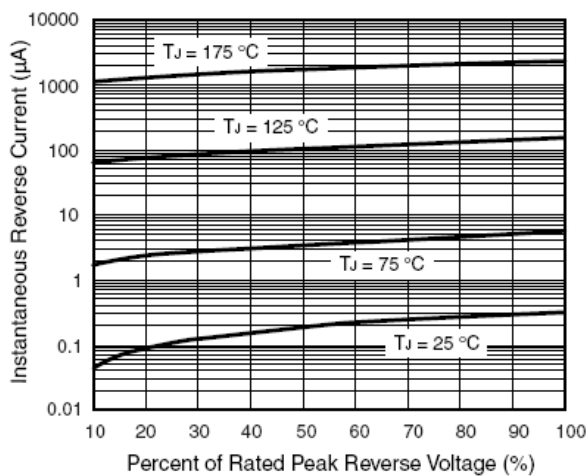


Figure 4. Typical Reverse Characteristics Per Diode

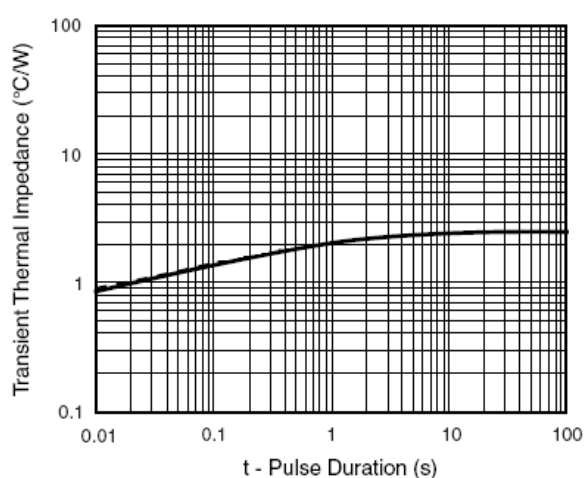


Figure 6. Typical Transient Thermal Impedance Per Diode