

SB2020CT – SB20100CT

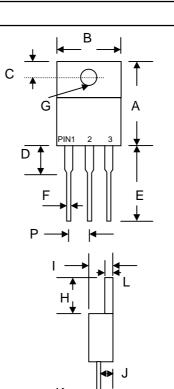
20A SCHOTTKY BARRIER RECTIFIER

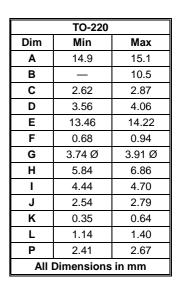
Features

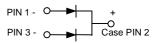
- Schottky Barrier Chip
- Guard Ring for Transient Protection
- High Current Capability, Low Forward
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

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





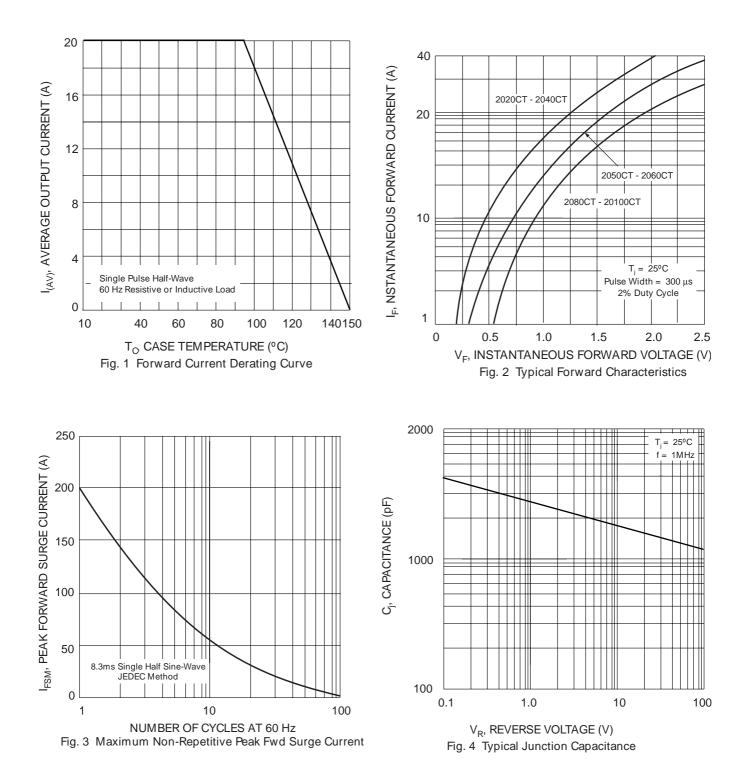


Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

| Characteristic | Symbol | 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 _c = 95°C | lo | 20 | | | | А | | | |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | Ігѕм | 200 | | | | A | | | |
| Forward Voltage $@I_F = 10A$ | Vfm | 0.55 0.75 0.85 | | 85 | V | | | | |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$ | Iгм | 0.5 100 | | | | mA | | | |
| Typical Junction Capacitance (Note 1) | Cj | 1100 | | | pF | | | | |
| Operating and Storage Temperature Range | Тj, Tsтg | -65 to +150 | | | | °C | | | |

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



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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