

SBF1050CT2 thru 1060CT2

REVERSE VOLTAGE - 50 to 60 Volts FORWARD CURRENT - 10 Amperes

SCHOTTKY BARRIER RECTIFIERS

FEATURES

- Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · Low power loss, high efficiency
- High current capability, low VF
- · High surge capability
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

· Case: ITO-220AB molded plastic Polarity: As marked on the body • Weight: 0.06 ounces, 1.70 grams

· Mounting position: Any

• Max. mounting torque = 0.5 N.m (5.1 Kgf-cm)

ITO-220AB

| ITO-220AB | | | | | |
|------------------------------|-------|--------|--|--|--|
| DIM. | MIN. | MAX. | | | |
| Α | 15.50 | 16.50 | | | |
| В | 10.0 | 10.40 | | | |
| С | 3.00 | 3.50 | | | |
| D | 9.00 | 9.30 | | | |
| E | 2.90 | 3.60 | | | |
| F | 13.46 | 14.22 | | | |
| G | 1.15 | 1.70 | | | |
| Н | 2.40 | 2.70 | | | |
| I | 0.75 | 1.00 | | | |
| J | 0.45 | 0.70 | | | |
| K | 3.00Ø | 3.30 Ø | | | |
| L | 4.36 | 4.77 | | | |
| M | 2.48 | 2.80 | | | |
| N | 2.50 | 2.80 | | | |
| All Dimensions in millimeter | | | | | |

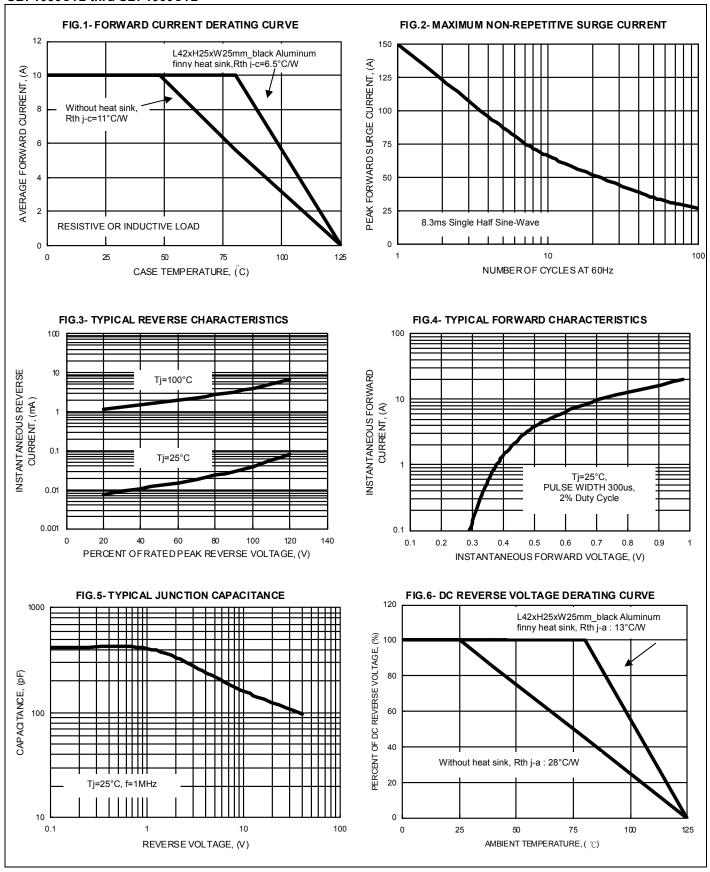
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| PARAMETER | SYMBOL | SBF1050CT2 | SBF1060CT2 | UNIT |
|---|-------------------|-------------|--------------------------|------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 50 | 60 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 42 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 60 | V |
| Maximum Average Forward Rectified Current(See Fig.1) @TC=80°C | I _(AV) | 10 | | А |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 150 | | А |
| Maximum Forward Voltage at 5A DC (Note1) | VF | 0.7 | | V |
| Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C | I _R | | .5 0 | mA |
| Typical Junction Capacitance per element (Note 2) | CJ | 250 | | РF |
| Typical thermal resistance _ Junction to Lead (Note 3) | R⊕JL | 4.5 | | °C/W |
| Operating junction temperature range | TJ | -55 to +125 | | °C |
| Storage temperature range | T _{STG} | -55 to +150 | | °C |
| Dielectric Strength from terminals to case, AC with t=1 minute, RH<30% | V _{dis} | 2000 | | V |
| Note: | | | REV. 1, Oct-2010, KTHC77 | |

- 300us Pulse Width, 2% Duty Cycle..
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 V DC
- Thermal Resistance Junction to Lead with L42xH25xW25mm_black Aluminum finny heat sink...







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