

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 30 --- 100 V
CURRENT: 10 A

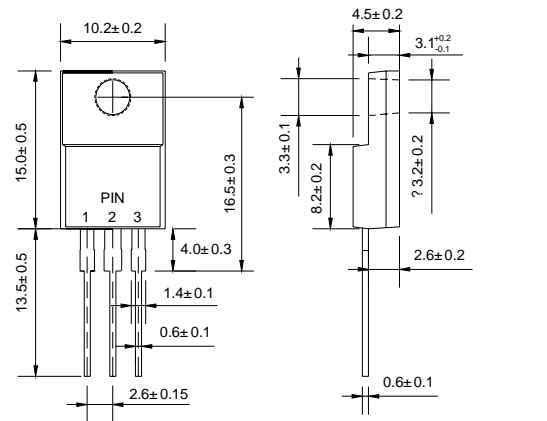
FEATURES

- ◇ Metal-Semiconductor junction with guard ring
- ◇ Epitaxial construction
- ◇ Low forward voltage drop, low switching losses
- ◇ High surge capability
- ◇ For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇ Case: JEDEC ITO-220AB, molded plastic
- ◇ Terminals: Solderable per MIL-STD-750, Method 2026
- ◇ Polarity: As marked
- ◇ Weight: 0.06ounce, 1.67 grams
- ◇ Mounting position: Any

ITO-220AB



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

| | | SBLF 1030CT | SBLF 1035CT | SBLF 1040CT | SBLF 1045CT | SBLF 1050CT | SBLF 1060CT | SBLF 1080CT | SBLF 10100CT | UNITS |
|---|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|--------------------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 30 | 35 | 40 | 45 | 50 | 60 | 80 | 100 | V |
| Maximum RMS voltage | V_{RMS} | 21 | 25 | 28 | 32 | 35 | 42 | 56 | 70 | V |
| Maximum DC blocking voltage | V_{DC} | 30 | 35 | 40 | 45 | 50 | 60 | 80 | 100 | V |
| Maximum average forward rectified current $T_C=107^\circ\text{C}$ | $I_{F(AV)}$ | 10 | | | | | | | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load $T_J=125^\circ\text{C}$ | I_{FSM} | 175 | | | | | | | | A |
| Maximum instantaneous forward voltage @ 5.0A | V_F | 0.55 | | | 0.70 | | 0.85 | | | V |
| Maximum reverse current @ $T_C=25^\circ\text{C}$ at rated DC blocking voltage @ $T_C=100^\circ\text{C}$ | I_R | 0.5 50 | | | | | | | | mA |
| Typical thermal resistance (Note1) | $R_{\theta JC}$ | 5.0 | | | | | | | | $^\circ\text{C/W}$ |
| Operating junction temperature range | T_J | -55--- + 150 | | | | | | | | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | -55--- + 150 | | | | | | | | $^\circ\text{C}$ |

Note: 1. Thermal resistance junction to case.

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FIG.1 – PEAK FORWARD SURGE CURRENT

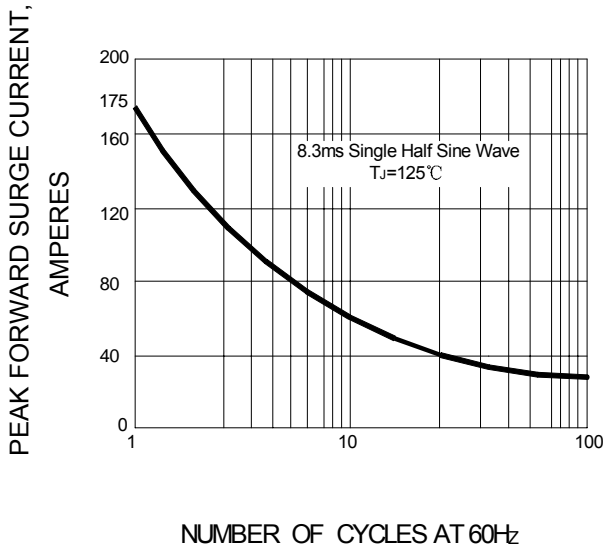


FIG.2 – FORWARD DERATING CURVE

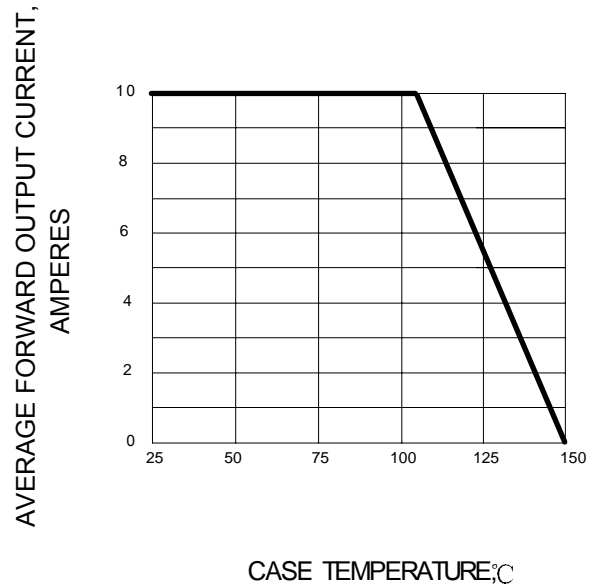


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

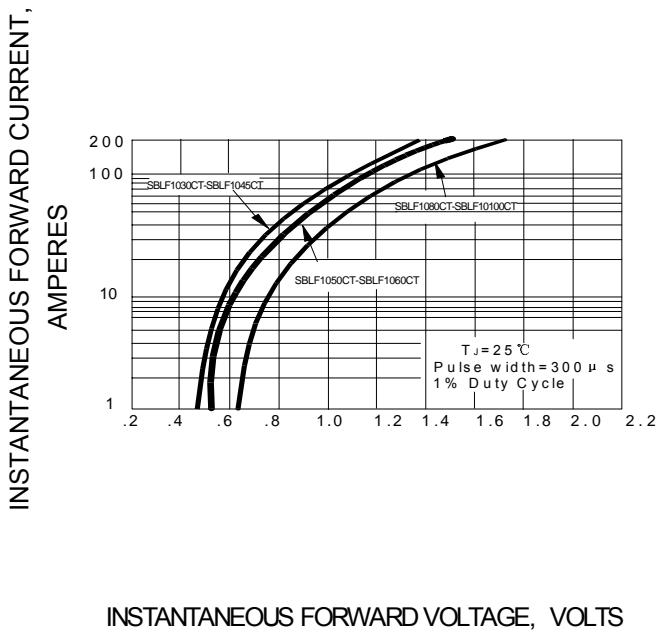


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

