

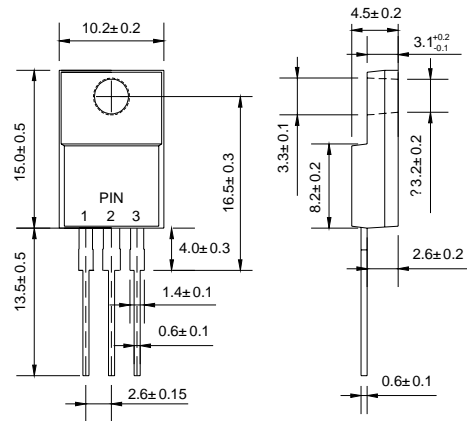
## ITO-220AB

### 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
- ◇ Polarity: As marked
- ◇ Weight: 0.08ounce, 2.24 grams
- ◇ Mounting position: Any



Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

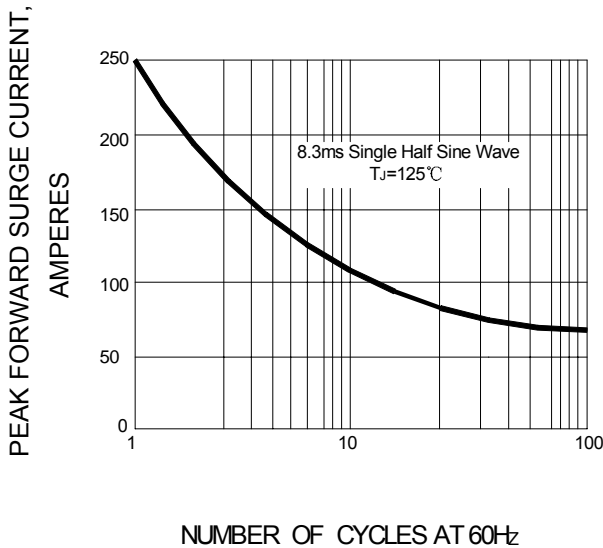
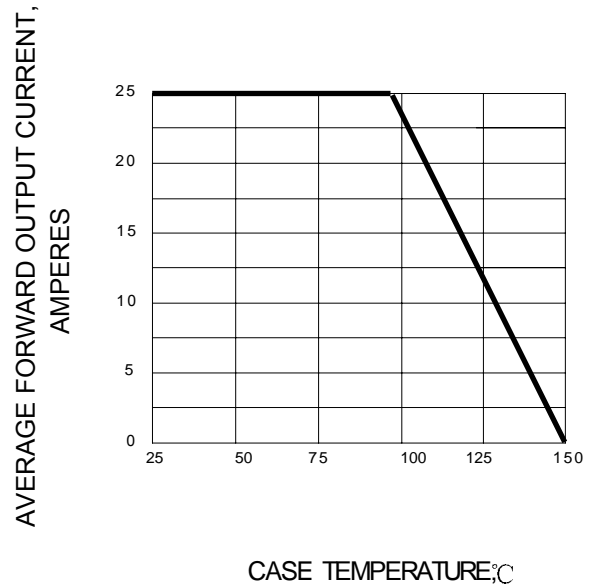
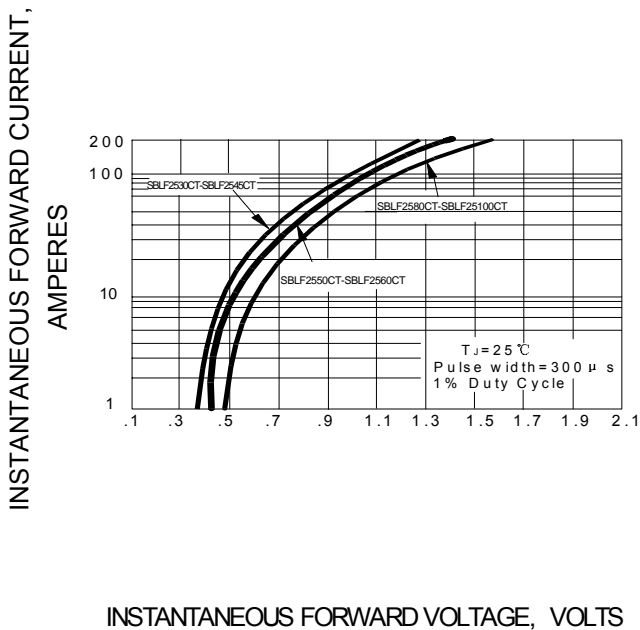
Ratings at 25°C ambient temperature unless otherwise specified.

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

		SBLF 2530CT	SBLF 2535CT	SBLF 2540CT	SBLF 2545CT	SBLF 2550CT	SBLF 2560CT	SBLF 2580CT	SBLF 25100CT	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 $T_C=95^\circ\text{C}$	$I_{F(AV)}$	25								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load $T_J=125^\circ\text{C}$	$I_{FSM}$	250								A
Maximum instantaneous forward voltage @ 12.5 A	$V_F$	0.57			0.75		0.85			V
Maximum reverse current @ $T_C=25^\circ\text{C}$ at rated DC blocking voltage @ $T_C=100^\circ\text{C}$	$I_R$	1.0 50								mA
Typical thermal resistance (Note1)	$R_{\theta JC}$	2.0								$^\circ\text{C}/\text{W}$
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.

## Ratings AND Characteristic Curves

**FIG.1 – PEAK FORWARD SURGE CURRENT**

**FIG.2 – FORWARD DERATING CURVE**

**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**

**FIG.4 – TYPICAL REVERSE CHARACTERISTIC**
