

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 30 --- 100 V
CURRENT: 20 A

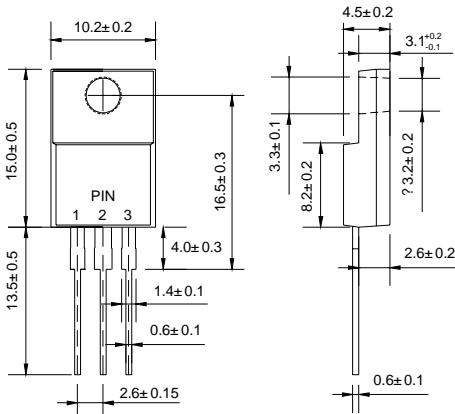
FEATURES

- ◇ 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: 0.071 ounce, 2.006 grams
- ◇ Mounting position: Any

ITO-220AB



Dimensions in millimeters

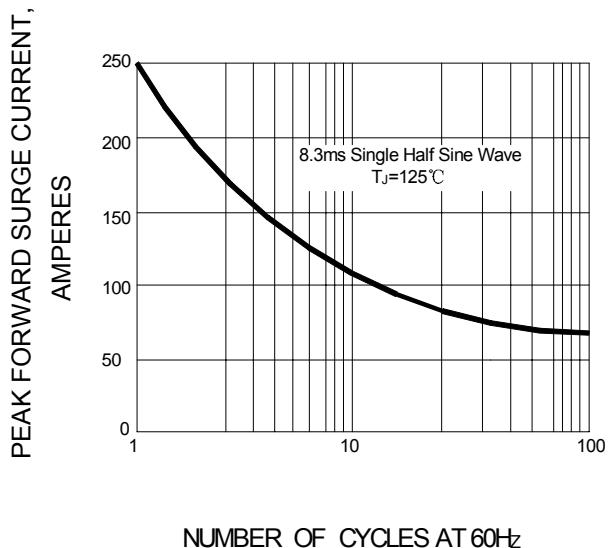
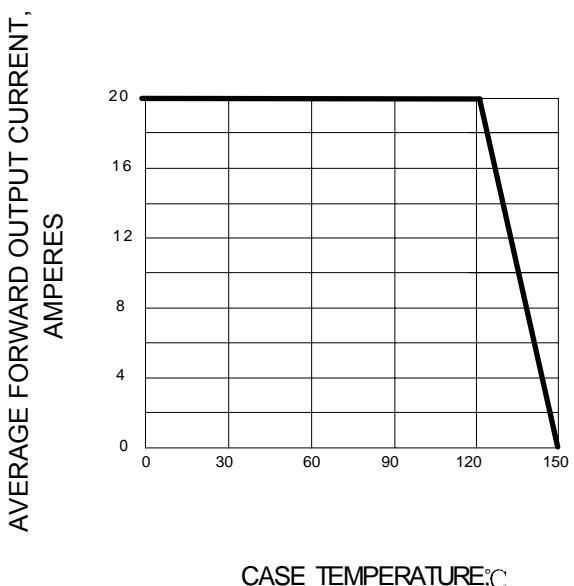
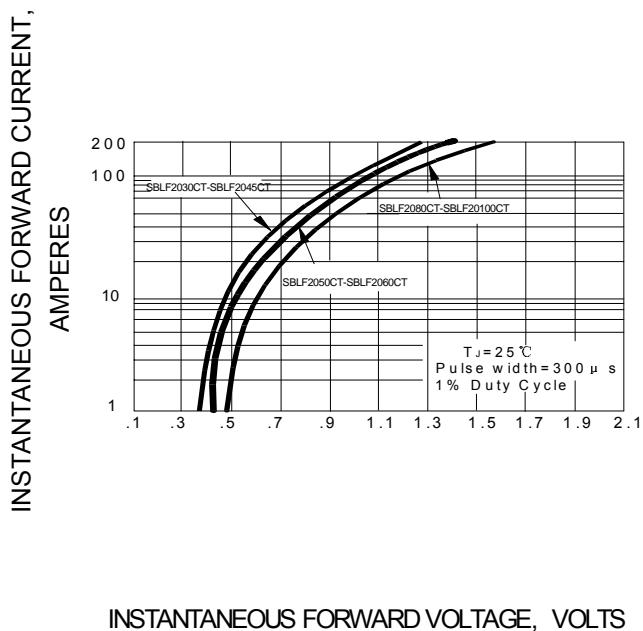
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 2030CT	SBLF 2035CT	SBLF 2040CT	SBLF 2045CT	SBLF 2050CT	SBLF 2060CT	SBLF 2080CT	SBLF 20100CT	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 $T_c=125^\circ C$	$I_{F(AV)}$	20								A					
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	250								A					
Maximum instantaneous forward voltage @ 10 A	V_F	0.55			0.75			0.85		V					
Maximum reverse current @ $T_c=25^\circ C$ at rated DC blocking voltage @ $T_c=100^\circ C$	I_R	1.0 50								mA					
Typical thermal resistance (Note1)	$R_{\theta JC}$	1.5								°C/W					
Operating junction temperature range	T_J	-55--- + 150								°C					
Storage temperature range	T_{STG}	-55--- + 150								°C					

Note: 1. Thermal resistance junction to case.

FIG.1 – PEAK FORWARD SURGE CURRENT**FIG.2 – FORWARD DERATING CURVE****FIG.3 – TYPICAL FORWARD CHARACTERISTIC****FIG.4 – TYPICAL REVERSE CHARACTERISTIC**