

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 30 --- 100 V
CURRENT: 5.0 A

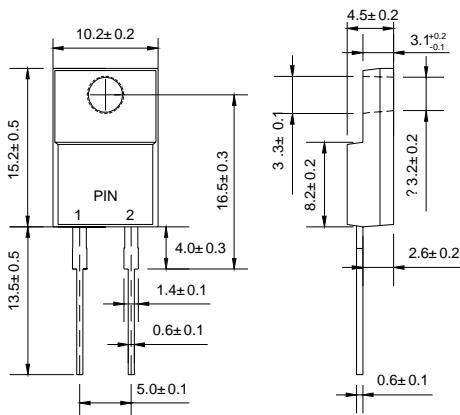
FEATURES

- ◇ 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-220AC, molded plastic
- ◇ Terminals: Solderable per MIL-STD-750, Method 2026
- ◇ Polarity: As marked
- ◇ Weight: 0.056 ounces, 1.587 gram
- ◇ Mounting position: Any

ITO-220AC



Dimensions in millimeters

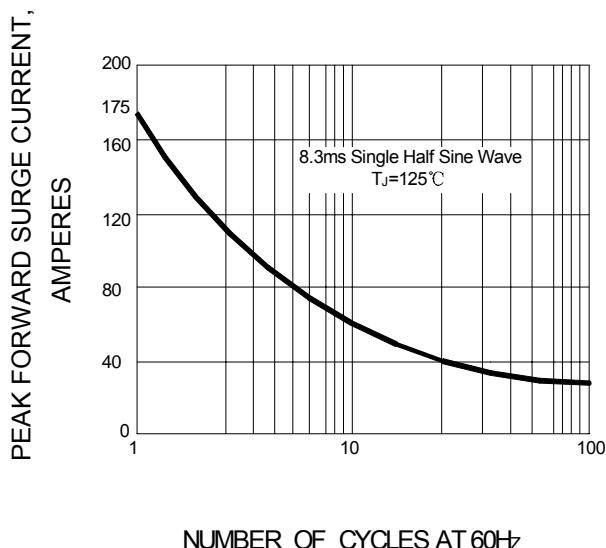
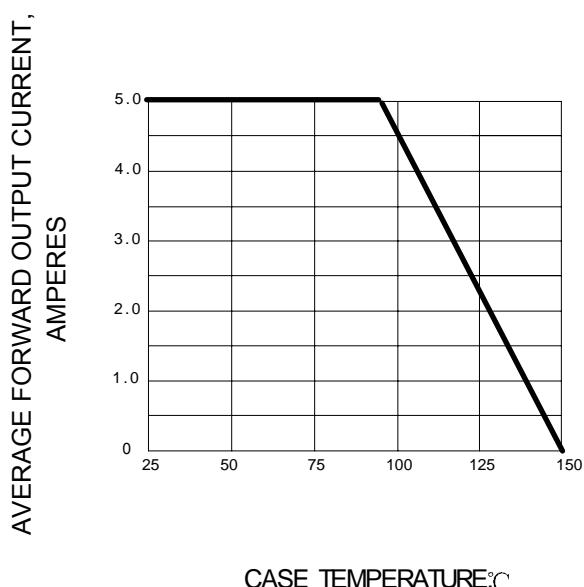
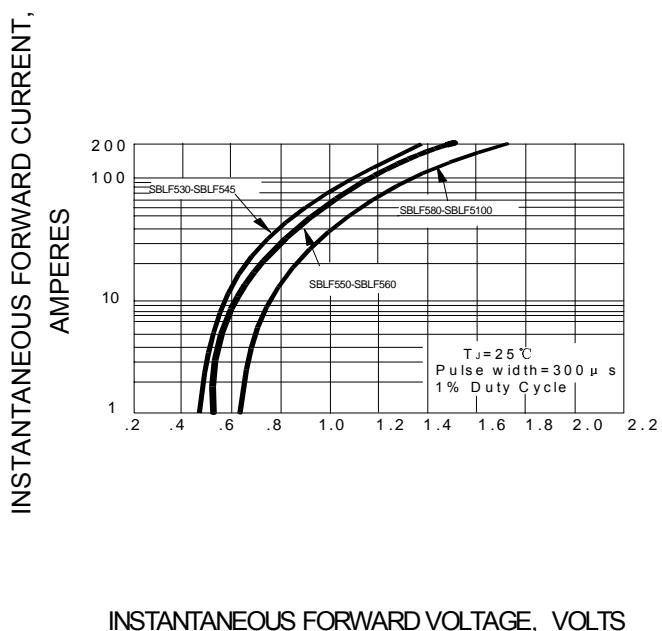
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 530	SBLF 535	SBLF 540	SBLF 545	SBLF 550	SBLF 560	SBLF 580	SBLF 5100	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 $T_c=95^\circ C$	$I_{F(AV)}$	5.0								A				
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load $T_j=125^\circ C$	I_{FSM}	175								A				
Maximum instantaneous forward voltage @ 5.0A	V_F	0.55		0.70		0.85		V						
Maximum reverse current @ $T_c=25^\circ C$ at rated DC blocking voltage @ $T_c=100^\circ C$	I_R	0.5		33		mA		mA						
Typical thermal resistance (Note1)	$R_{\theta JC}$	3.0								°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**