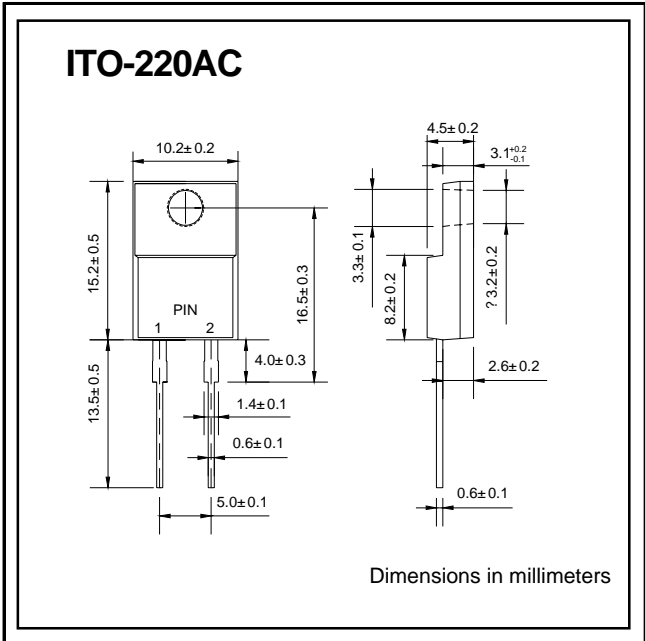


## SCHOTTKY BARRIER RECTIFIERS

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



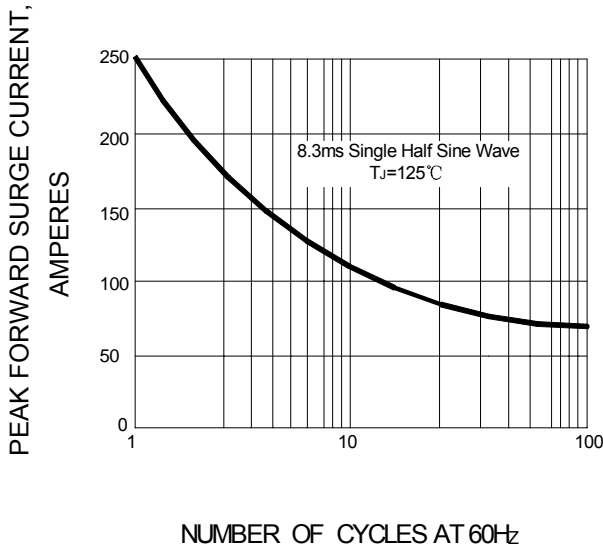
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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%.

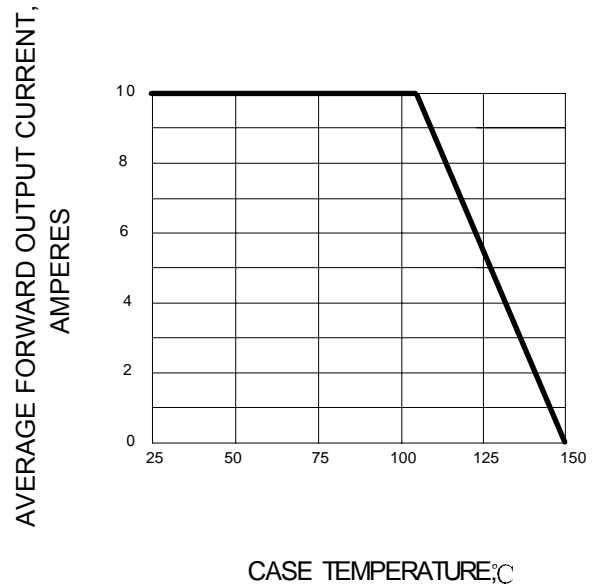
		SBLF 1030	SBLF 1035	SBLF 1040	SBLF 1045	SBLF 1050	SBLF 1060	SBLF 1080	SBLF 10100	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	30	35	40	45	50	60	80	100	V
Maximum RMS voltage	$V_{RMS}$	21	25	28	32	35	42	56	70	V
Maximum DC blocking voltage	$V_{DC}$	30	35	40	45	50	60	80	100	V
Maximum average forward rectified current $T_C=110^\circ\text{C}$	$I_{F(AV)}$	10								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load $T_J=125^\circ\text{C}$	$I_{FSM}$	250								A
Maximum instantaneous forward voltage @ 10 A	$V_F$	0.60			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)	$R_{\theta JC}$	5.0								$^\circ\text{C}/\text{W}$
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. www.galaxycn.com

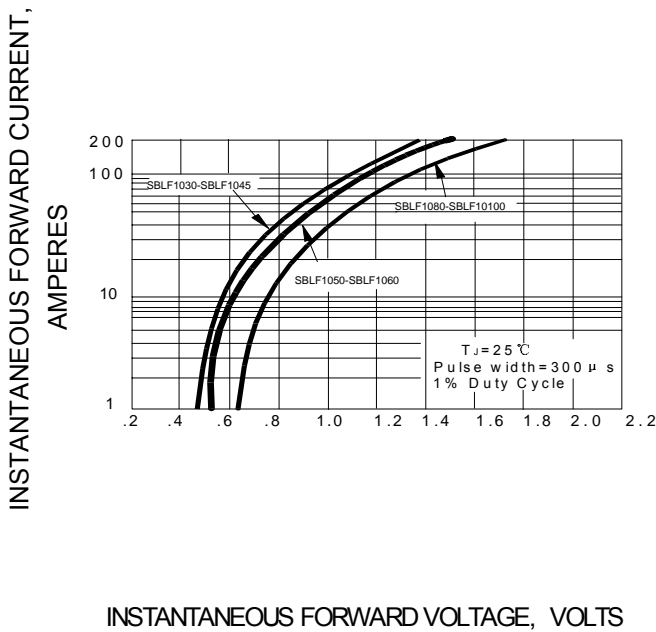
**FIG.1 – PEAK FORWARD SURGE CURRENT**



**FIG.2 – FORWARD DERATING CURVE**



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL REVERSE CHARACTERISTIC**

