

SCHOTTKY BARRIER RECTIFIER

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

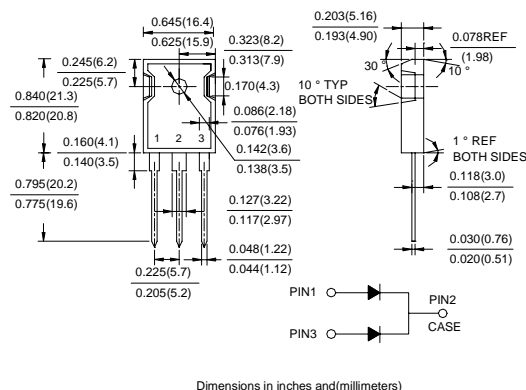
FEATURES

- ◇ 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 TO-247AD, molded plastic
- ◇ Terminals: Leads solderable per MIL-STD-750, Method 2026
- ◇ Polarity: As marked
- ◇ Weight: 0.223 ounce, 6.3 grams
- ◇ Mounting position: Any

TO-247AD(TO-3P)



Dimensions in inches and (millimeters)

inch(mm)

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%.

		SBL 3030PT	SBL 3035PT	SBL 3040PT	SBL 3045PT	SBL 3050PT	SBL 3060PT	SBL 3080PT	SBL 30100PT	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 =100°C	I _{F(AV)}	30								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	275								A
Maximum instantaneous forward voltage @ 15 A	V _F	0.55				0.75		0.85		V
Maximum reverse current @T _C =25°C at rated DC blocking voltage @T _C =100°C	I _R	1.0 75								mA
Typical thermal resistance (Note1)	R _{θJC}	1.5								°C/W
Operating junction temperature range	T _J	-55--- + 125								°C
Storage temperature range	T _{STG}	-55--- + 150								°C

Note: 1. Thermal resistance junction to case.

www.galaxycn.com

FIG.1 – PEAK FORWARD SURGE CURRENT

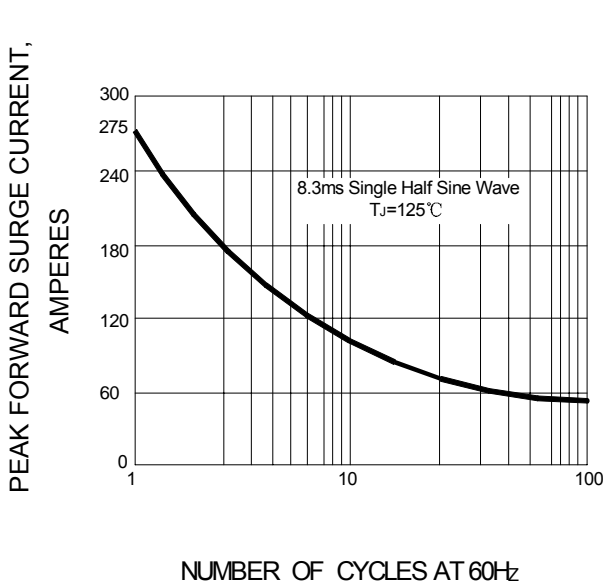


FIG.2 – FORWARD DERATING CURVE

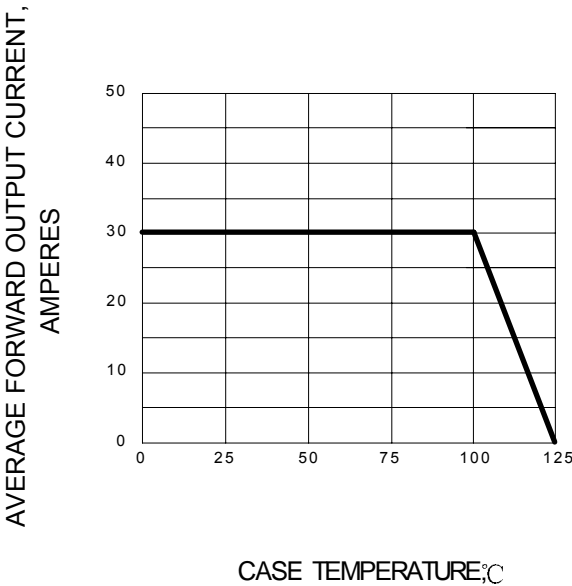


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

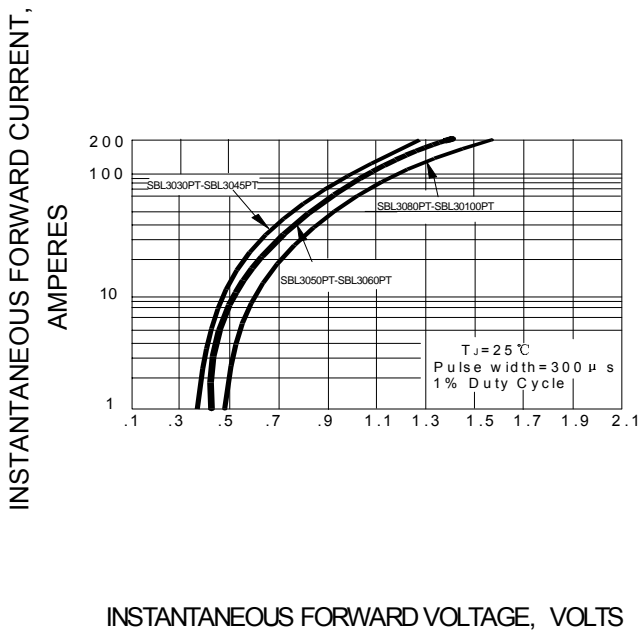


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

