BL GALAXY ELECTRICAL

1A1G --- 1A7G

GLASS PASSIVATED RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 1.0 A

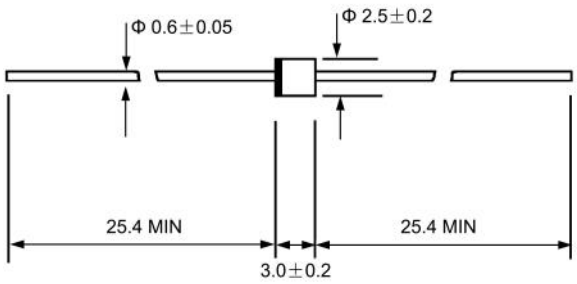
FEATURES

- ◇ Low cost
- ◇ Glass passivated junction
- ◇ High current capability
- ◇ Easily cleaned with Freon,Alcohol,Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-O

MECHANICAL DATA

- ◇ Case:JEDEC R-1,molded plastic
- ◇ Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.007 ounces,0.20 grams
- ◇ Mounting position: Any

R-1



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

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

		1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forw ard rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	1.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	30.0							A
Maximum instantaneous forw ard voltage @ 1.0 A	V_F	1.1							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	5.0 50.0							μA
Typical junction capacitance (Note1)	C_J	5.0							pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	50							℃/W
Operating junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.

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FIG.1 –TYPICAL FORWARD CHARACTERISTIC

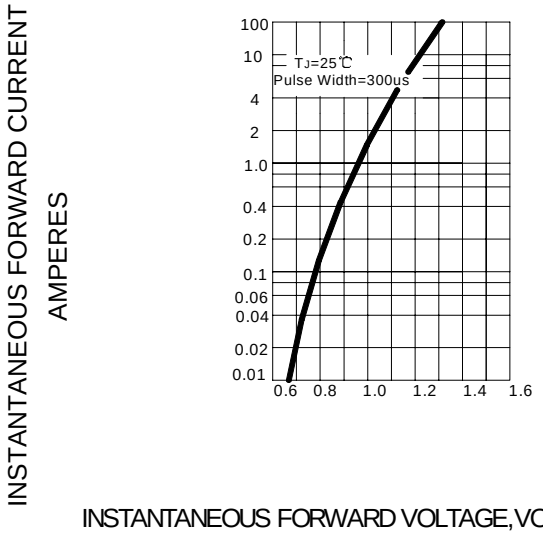

FIG.2 – TYPICAL JUNCTION CAPACITANCE

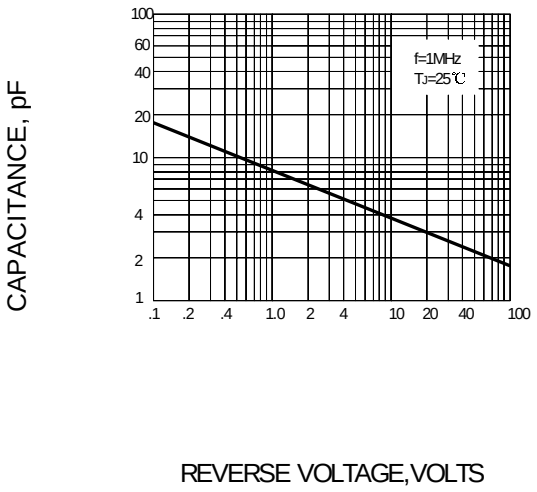

FIG.3 -- PEAK FORWARD SURGE CURRENT

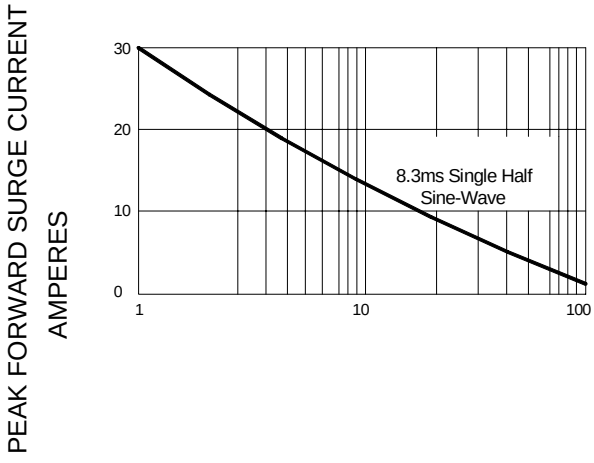

FIG.4 -- FORWARD DERATING CURVE