BL GALAXY ELECTRICAL

EM01Z(Z)---EM01A(Z)

PLASTIC SILICON RECTIFIER

VOLTAGE RANGE: 200 --- 600 V
CURRENT: 1.0 A

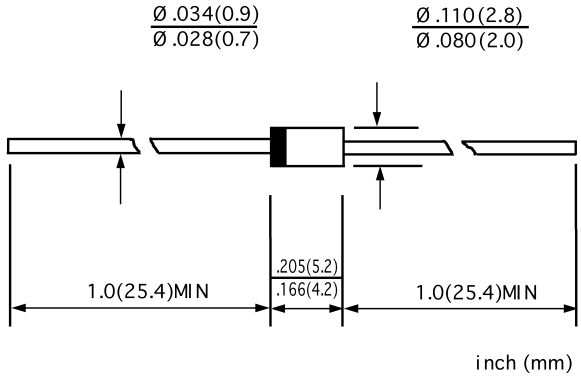
FEATURES

- ◇ Low cost
- ◇ Diffused junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Freon,Alcohol,Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇ Case:JEDEC DO--41,molded plastic
- ◇ Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.012ounces,0.34 grams
- ◇ Mounting position: Any

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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%.

		EM01Z	EM01	EM01A	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC blocking voltage	V_{DC}	200	400	600	V
Maximum average forward rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	1.0			A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T_J=125℃	I_{FSM}	45.0			A
Maximum instantaneous forward voltage @ 1.0 A	V_F	0.97			V
Maximum reverse current @T_A=25℃	I_R	5.0			μA
at rated DC blocking voltage @T_A=100℃		50.0			
Typical junction capacitance (Note1)	C_J	15			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 – FORWARD DERATING CURVE

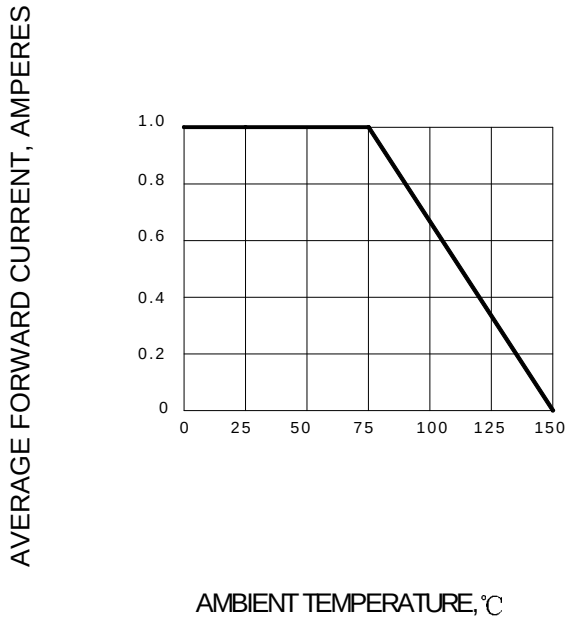


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

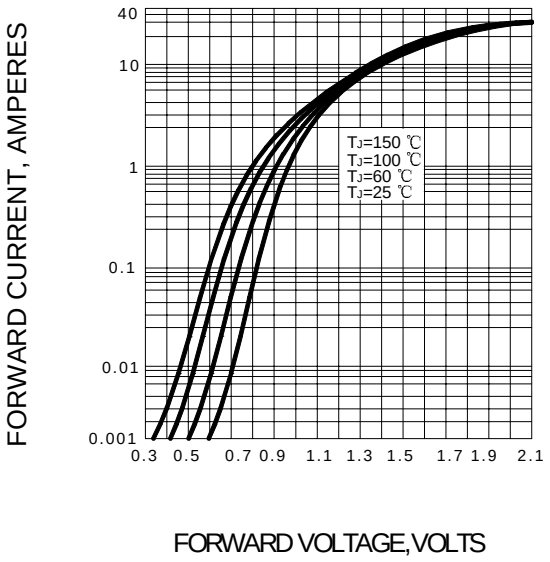


FIG.3 – FORWARD SURGE CURRENT

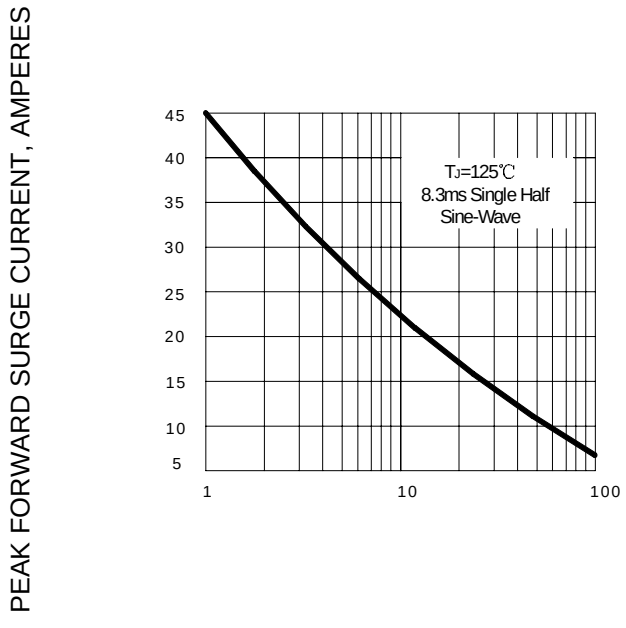


FIG.4–TYPICAL JUNCTION CAPACITANCE

