B L GALAXY ELECTRICAL

GL34A---GL34M

SURFACE MOUNT RECTIFIERS

REVERSE VOLTAGE: 50 - 1000 V
CURRENT: 1.0 A

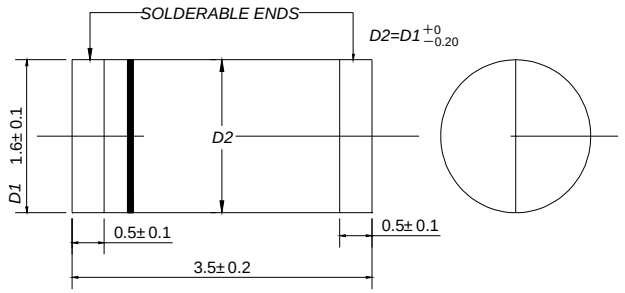
FEATURES

- ◇Plastic package has underwriters laboratory flammability classifications
- ◇For surface mounted applications
- ◇Low profile package
- ◇Built-in strain relief,ideal for automated placement
- ◇Glass passivated chip junction
- ◇High temperature soldering: 250°C/10 seconds at terminals

MECHANICAL DATA

- ◇Case:JEDEC DO-213AA,molded plastic over passivated chip
- ◇Terminals:Solder Plated, solderable per MIL-STD-750, Method 2026
- ◇Polarity: Color band denotes cathode end
- ◇Weight: 0.0014 ounces, 0.036 gram

DO - 213AA



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		GL34A	GL34B	GL34D	GL34G	GL34J	GL34K	GL34M	UNITS
Polarity color bands (2nd Band)		Gray	Red	Orange	Yellow	Green	Blue	Violet	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RWS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forword rectified current @T_L=75 ℃	$I_{F(AV)}$	0.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	10.0							A
Maximum instantaneous forward voltage at 0.5 A	V_F	1.2				1.3			V
Maximum DC reverse current @T_A=25°C	I_R	5.0							μA
at rated DC blockjing voltage @T_A=125°C		50.0							
Typical junction capacitance(NOTE 2)	C_J	4.0							pF
Typical reverse recovery time(NOTE3)	t_{rr}	1.5							μS
Typical thermal resitance (NOTE 4)	$R_{\theta JA}$	150							°C/W
Operating junction temperature range	T_J	-55--------+150							℃
Storage temperature range	T_{STG}	-55--------+150							°C

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

2.Thermal resistance form junction to ambient and junction to lead P.C.B mounted on 0.27"X0.27"(7.0X7.0mm2) copper pad areas

3.Measured with I_F=0.5A,I_R=1.0A,Irr=0.25A.

4. Thermal resistance from junction to ambient and junction to lead P.C.B.mounted on 0.27"X0.27"(7.0X7.0mm2) copper pad areas

FIG.1 – FORWARD DERATING CURVE

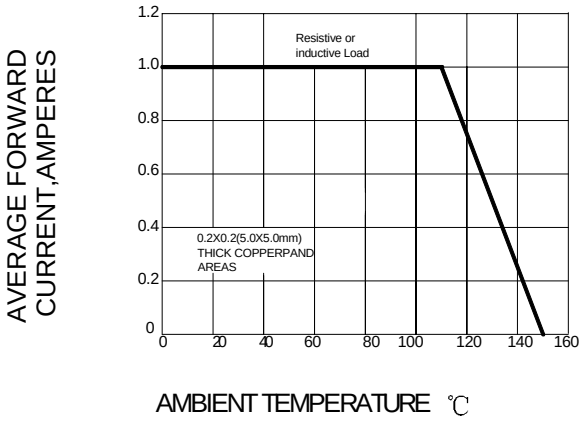


FIG.2 PEAK FORWARD SURGE CURRENT

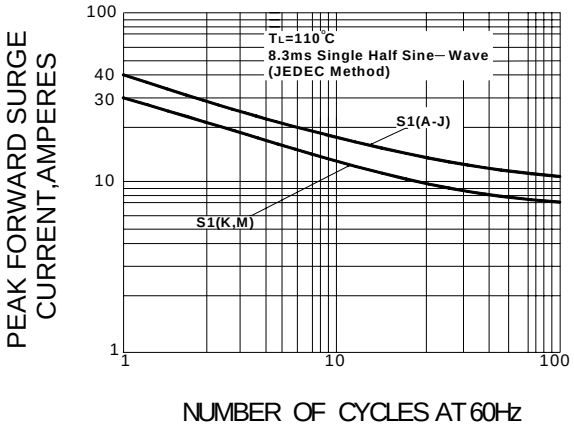


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

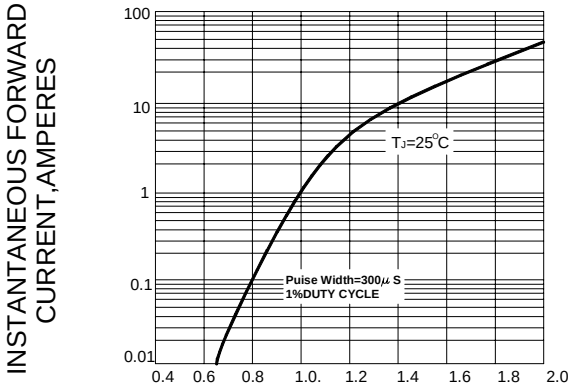


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

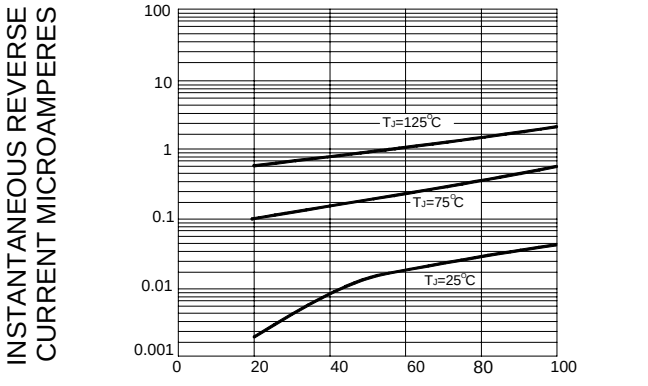


FIG.5-TYPICAL JUNCTION CAPACITANCE

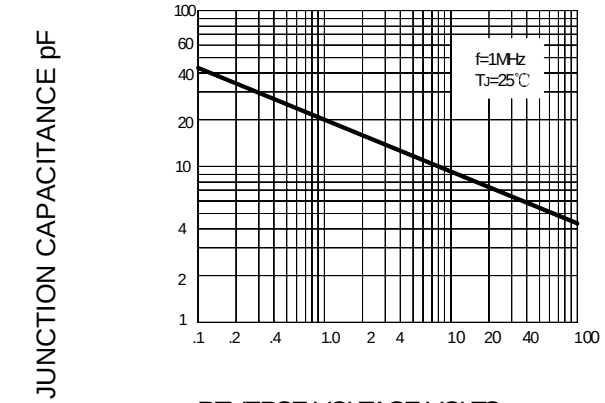


FIG.6-TRANSIENT THERMAL IMPEDANCE