



GL34A-GL34M

Surface Mount Rectifiers

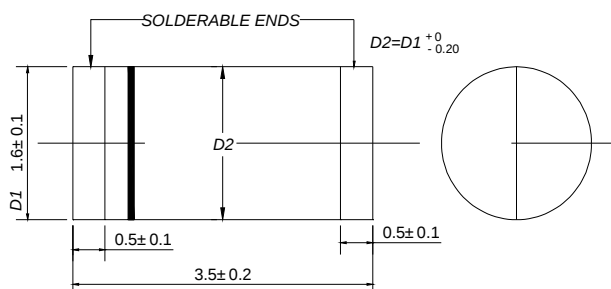
REVERSE VOLTAGE: 50 - 1000 V

CURRENT: 0.5A

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

DO - 213AA



Dimensions in millimeters

Mechanical Data

- ◇ Case: JEDEC DO-213AA, molded plastic over passivated chip
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.0014 ounces, 0.036 gram

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 forward rectified current @T _L =75 °C	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 at rated DC blocking voltage @T _A =125°C	I _R	5.0 50.0							μA
Typical junction capacitance(NOTE 2)	C _J	4.0							pF
Typical reverse recovery time(NOTE3)	t _{rr}	1.5							μS
Typical thermal resistance (NOTE 4)	R _{θJA}	150							°C/W
Operating junction temperature range	T _J	-55-----+150							°C
Storage temperature range	T _{STG}	-55-----+150							°C

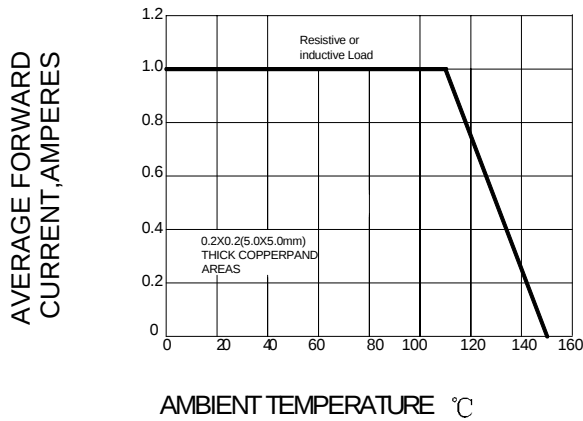
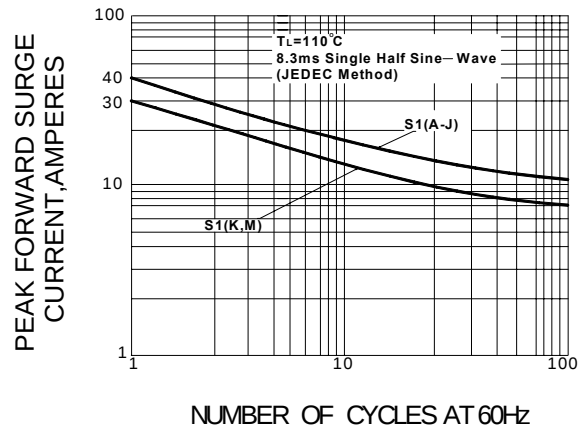
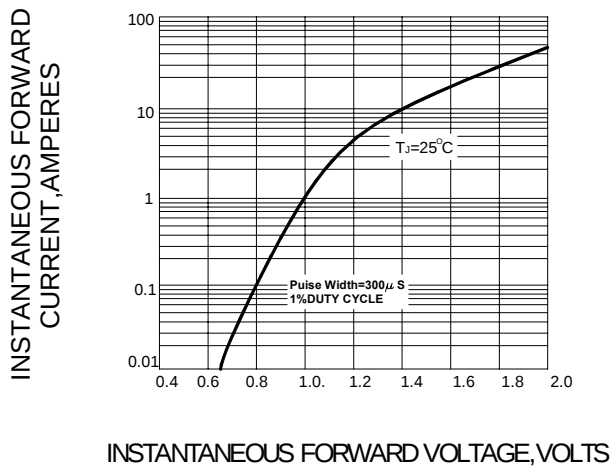
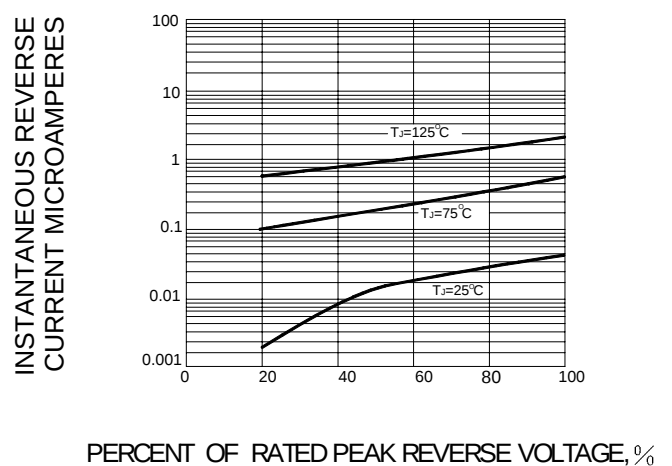
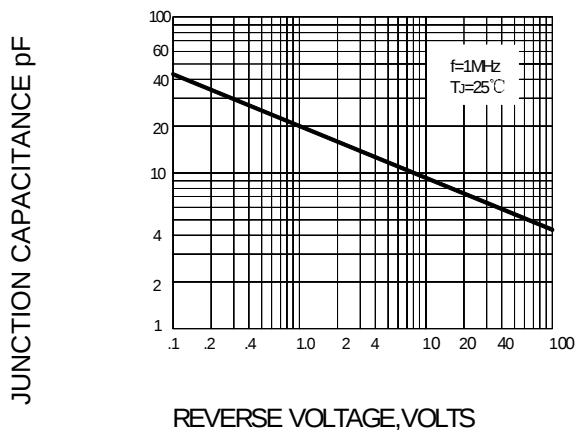
NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0volts

2. 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

3. Measured with $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $t_{rr} = 0.25\text{A}$.

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

Ratings AND Characteristic Curves

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
