GL34A THRU GL34M

0.5 AMP SURFACE MOUNT SILICON RECTIFIERS

GW

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
0.5 Ampere

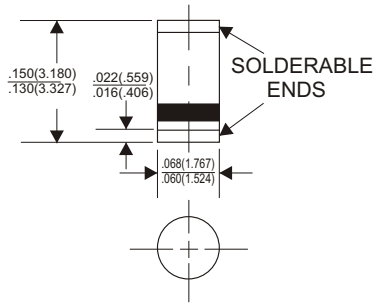
FEATURES

* Low forward voltage drop
* Low leakage current
* High reliability

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Metallurgically bonded construction
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 0.0036 grams

MINI MELF /GL-34



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25˚C ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	GL34A	GL34B	GL34D	GL34G	GL34J	GL34K	GL34M	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_L=75˚C	0.5							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30							A
Maximum Instantaneous Forward Voltage at 0.5A	1.2				1.3			V
Maximum DC Reverse Current Ta=25˚C	5.0							A
at Rated DC Blocking Voltage Ta=100˚C	50							A
Typical Junction Capacitance (Note 1)	8.0							pF
Typical Thermal Resistance R JA (Note 2)	50							˚C/W
Operating and Storage Temperature Range T_J, T_{STG}	-65 — +175							˚C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance from Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (GL34A THRU GL34M)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

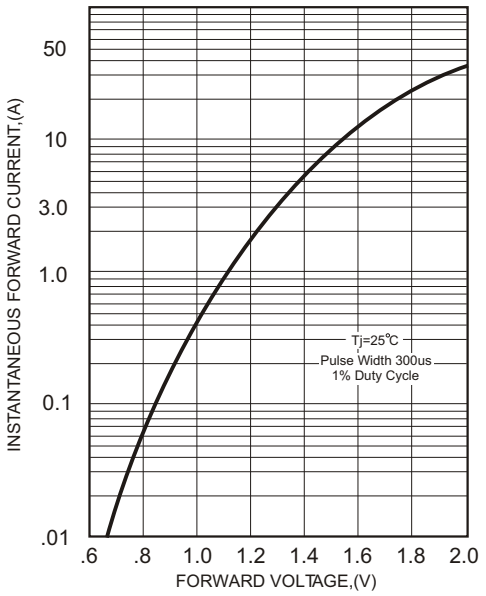


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

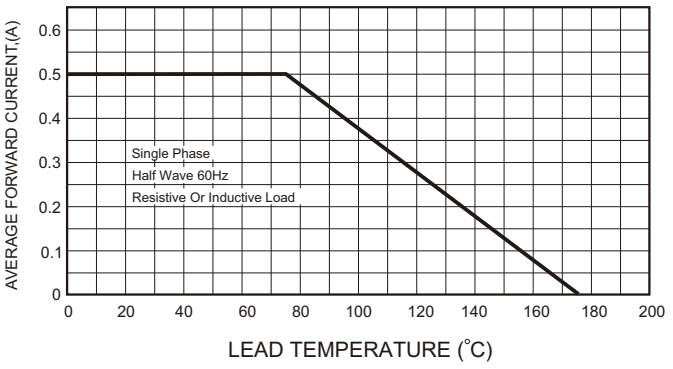


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

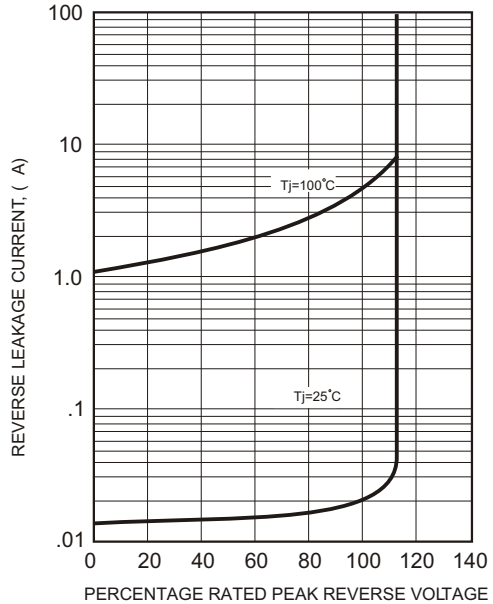


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

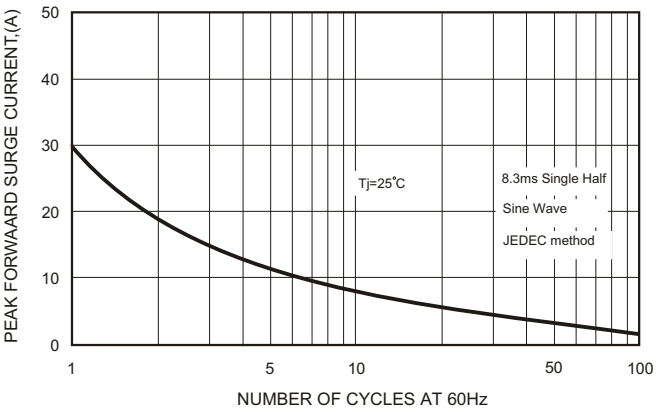


FIG.5-TYPICAL JUNCTION CAPACITANCE

