

# GL34A THRU GL34M



## 0.5 AMP SURFACE MOUNT SILICON RECTIFIERS



### 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

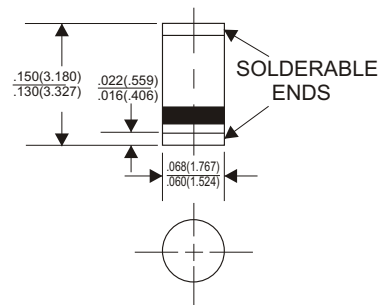
### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

0.5 Ampere

#### MINI MELF /GL-34



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise 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 <sub>L</sub> =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 at Rated DC Blocking Voltage	5.0			50				A
Typical Junction Capacitance (Note 1)	8.0							pF
Typical Thermal Resistance R <sub>JA</sub> (Note 2)	50							°C/W
Operating and Storage Temperature Range T <sub>J</sub> , T <sub>STG</sub>	-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

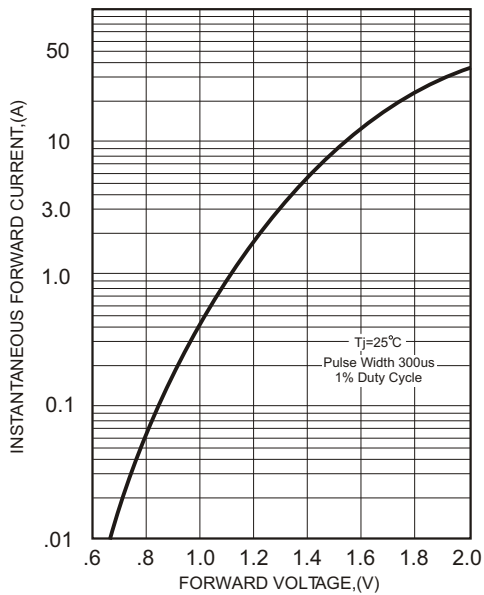


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

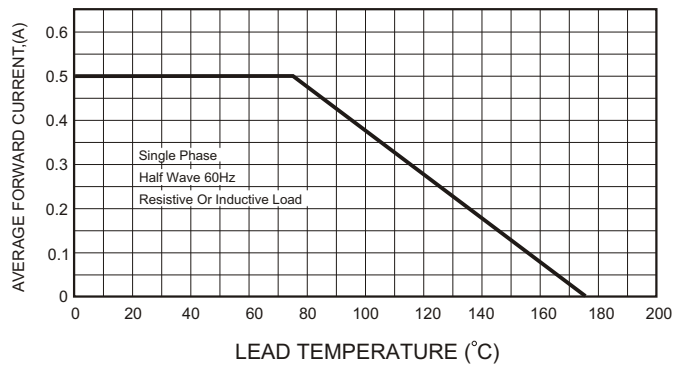


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



FIG.3 - TYPICAL REVERSE CHARACTERISTICS

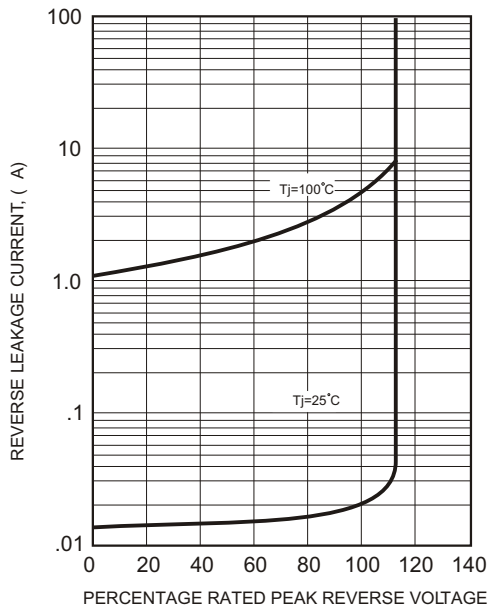


FIG.5-TYPICAL JUNCTION CAPACITANCE

