MEI

Lead Free
RoHS Compliant

GL34A THRU GL34M

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 50 to 1200 Volts *CURRENT - 0.5 Ampere*

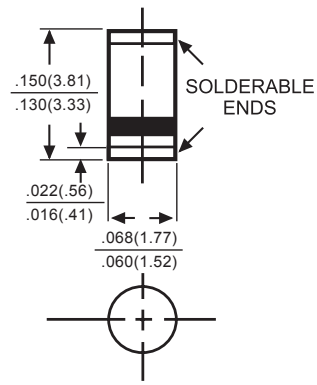
FEATURES

* Ideal for surface mounted applications
* Low leakage current
* Glass passivated junction

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
*Terminals: Solder plated solderable per MIL-STD-202E, Method 208 guaranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 0.036 gram

Mini-MELF(DO-213AA)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

		SYMBOL	GL34A	GL34B	GL34D	GL34G	GL34J	GL34K	GL34M	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current T_A = 75°C		I_O	0.5							Amps
Peak Forward Surge Current I_{FM}(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	30							Amps
Maximum Forward Voltage at 0.5A DC		V_F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T_A = 25°C	I_R	5.0							uAmps
	@T_A = 125°C		50							
Maximum Thermal Resistance (Note 2)		$R\theta_{JL}$	30							°C/W
Typical Junction Capacitance (Note 1)		C_J	8.0							pF
Operating and Storage Temperature Range		T_J, T_{STG}	-65 to + 175							°C

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC
2. Thermal resistance (Junction to Ambient),.24in² (6.0mm²) coppeer pads to each terminal.

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RATING AND CHARACTERISTIC CURVES (GL34A THRU GL34M)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

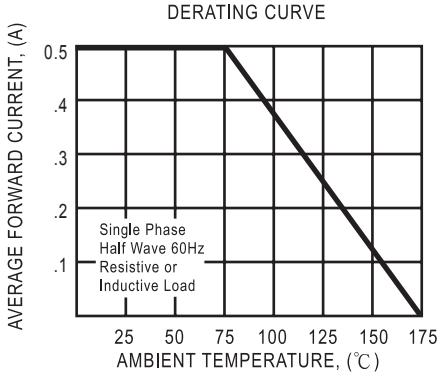

FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

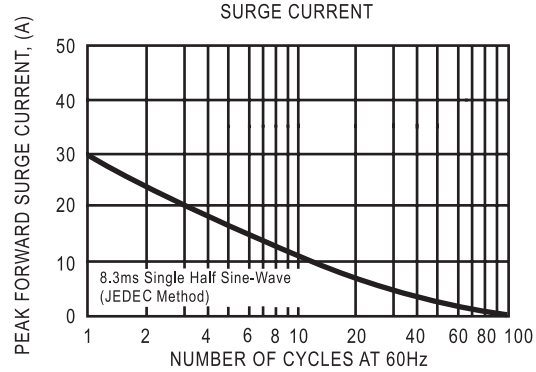

FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

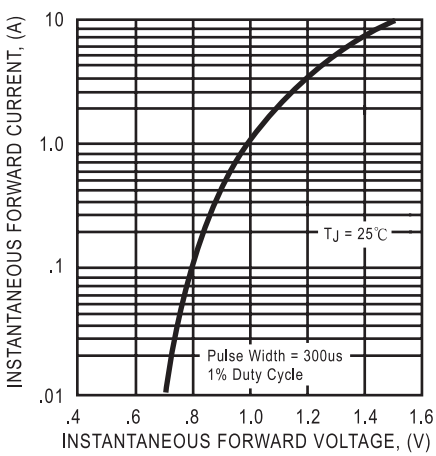

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

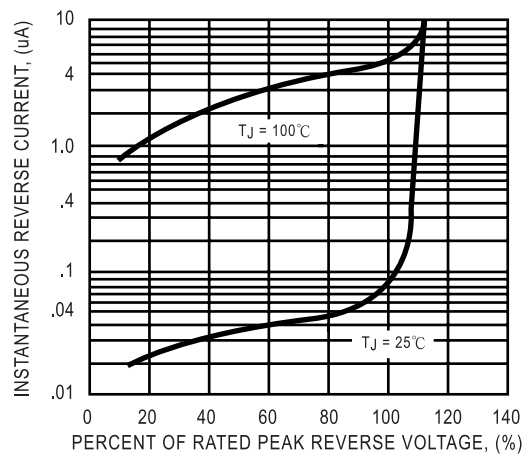

FIG. 5 - TYPICAL JUNCTION CAPACITANCE