



*DC COMPONENTS CO., LTD.*

RECTIFIER SPECIALISTS

GL34A  
THRU  
GL34M

**TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SILICON RECTIFIER**

**VOLTAGE RANGE - 50 to 1000 Volts**

**CURRENT - 0.5 Ampere**

**FEATURES**

- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Glass passivated junction
- \* High surge current capability
- \* Low forward voltage drop

**MECHANICAL DATA**

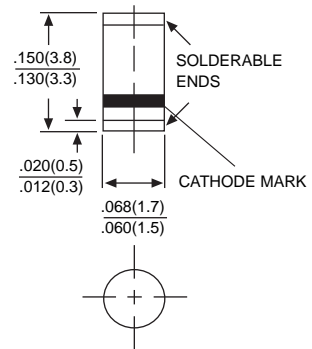
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solder plated, solderable per MIL-STD-202E, Method 28 guaranteed
- \* Polarity: As marked
- \* Mounting position: Any
- \* Weight: 0.036 gram

**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%.



SM-2(DO-213AA)



Dimensions in inches and (millimeters)

	SYMBOL	GL34A	GL34B	GL34D	GL34G	GL34J	GL34K	GL34M	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 75°C	I <sub>O</sub>	0.5							Amps
Peak Forward Surge Current I <sub>FM</sub> (surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	25							Amps
Maximum Forward Voltage at 0.5A DC	V <sub>F</sub>					1.1			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>					5.0			uAmps
						250			
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>					125			°C/W
Typical Junction Capacitance (Note 1)	C <sub>J</sub>					4.0			pF
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>					-65 to + 150		°C	

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC  
2. Thermal Resistance (Junction to Ambient), .24in<sup>2</sup> (6.0mm<sup>2</sup>) copper pads to each terminal.

# RATING AND CHARACTERISTIC CURVES (GL34A THRU GL34M)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

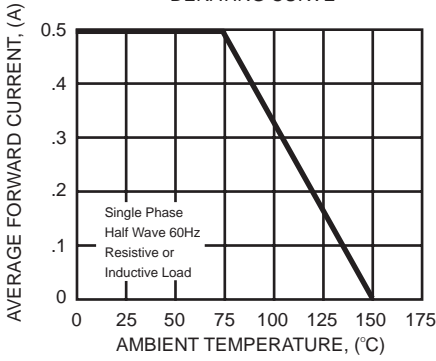


FIG. 2 - MAXIMUM NON-REPETITIVE FOREARD SURGE CURRENT

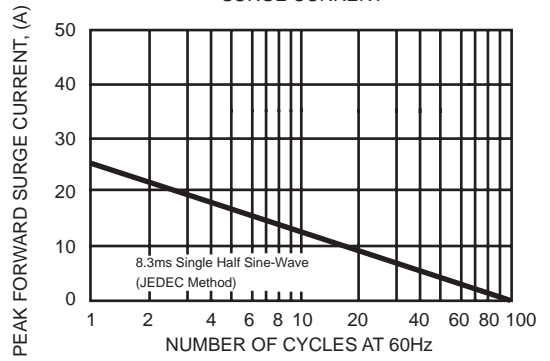


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

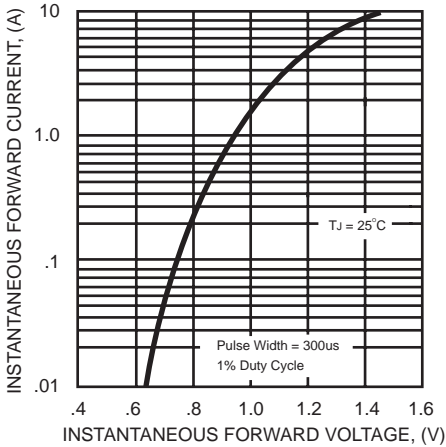


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

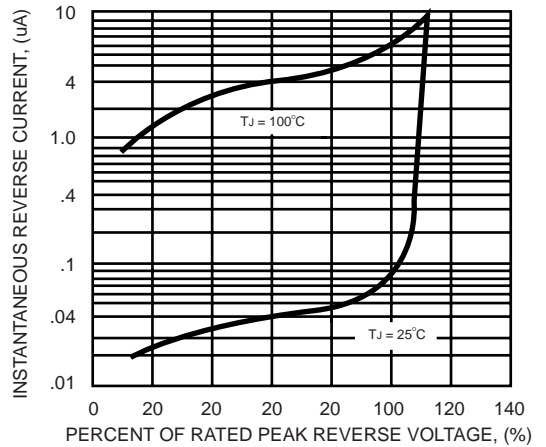
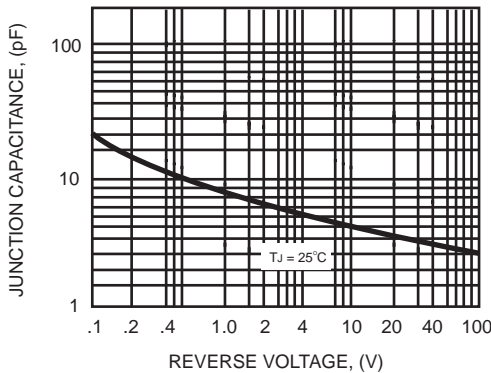


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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