

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GL34A THRU GL34M

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SILICON 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

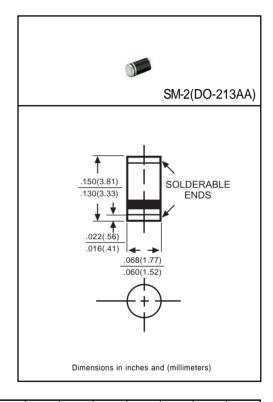
* Polarity: Color band denotes cathode end

* Mounting position: Any * Weight: 0.036 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

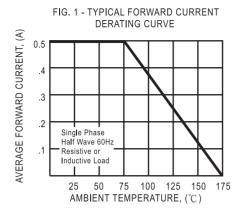


		SYMBOL	GL34A	GL34B	GL34D	GL34G	GL34J	GL34K	GL34M	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current TA = 75°C		lo	0.5							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30							Amps
Maximum Forward Voltage at 0.5A DC		VF	1.1							Volts
Maximum DC Reverse Current at	@TA = 25°C	JR 5.0							uAmps	
Rated DC Blocking Voltage	@TA = 125°C	IK IK	50							
Maximum Thermal Resistance (Note 2)		RθJL	30							°C/W
Typical Junction Capacitance (Note 1)		Cı	8.0							pF
Operating and Storage Temperature Range		TJ, TSTG	-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.

RATING AND CHARACTERISTIC CURVES (GL34A THRU GL34M)



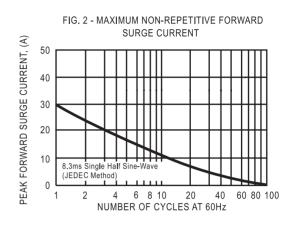
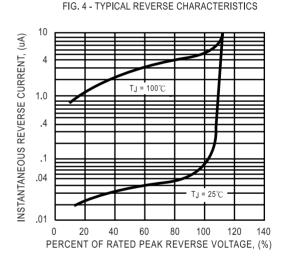
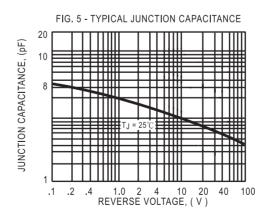


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS INSTANTANEOUS FORWARD CURRENT, (A) 1.0 TJ = 25℃ .1 Pulse Width = 300us 1% Duty Cycle .01 .6 .8 1.0 1.2 1.4 1.6 INSTANTANEOUS FORWARD VOLTAGE, (V)







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