



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

**RGL34A
THRU
RGL34J**

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 600 Volts

CURRENT -0.5 Ampere

FEATURES

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

MECHANICAL DATA

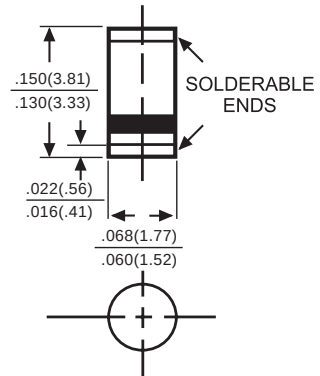
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.036 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °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	RGL34A	RGL34B	RGL34D	RGL34G	RGL34J	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current TA = 55°C		IO	0.5					Amps
Peak Forward Surge Current IFM (surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	10					Amps
Maximum Forward Voltage at 0.5A DC		VF	1.3					Volts
Maximum DC Reverse Current at	@ TA = 25°C	IR	5.0					uAmps
Rated DC Blocking Voltage	@ TA = 125°C		100					
Maximum Reverse Recovery Time (Note 3)		trr	150				250	nSec
Maximum Thermal Resistance (Note 2)		RθJL	70				°C/W	
Typical Junction Capacitance (Note 1)		CJ	4.0				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) copper pads to each terminal.
3. Test Conditions: I_F = 0.5A, I_R=1.0A, I_{RR}=0.25A



RATING AND CHARACTERISTIC CURVES (RGL34A THRU RGL34J)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

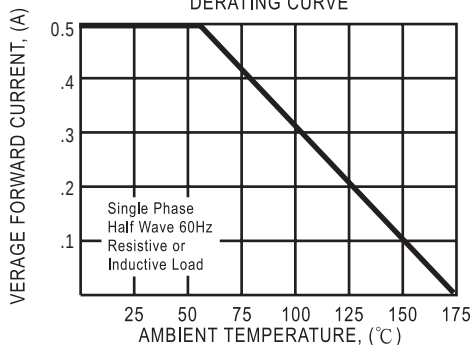


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

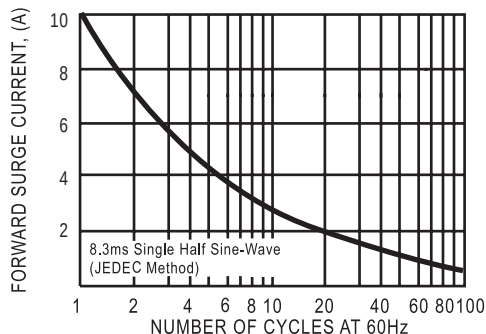


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

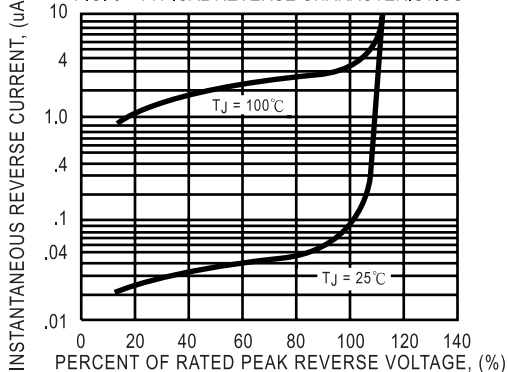


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

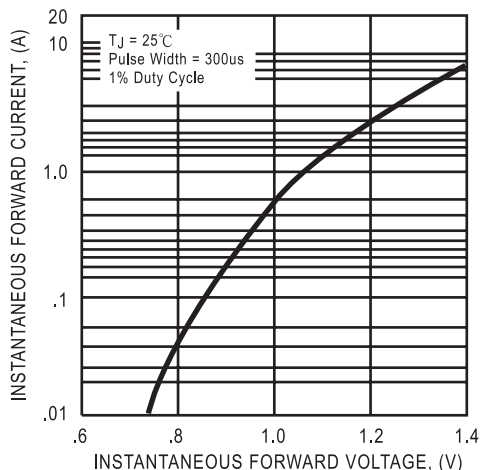


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

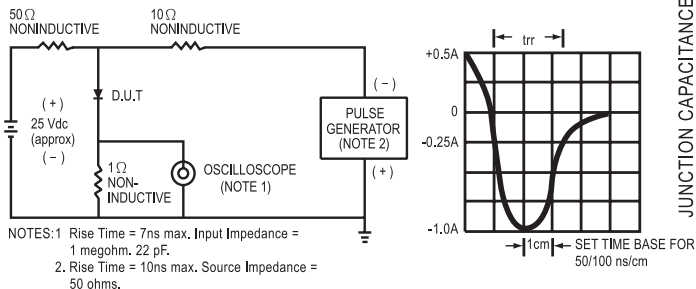
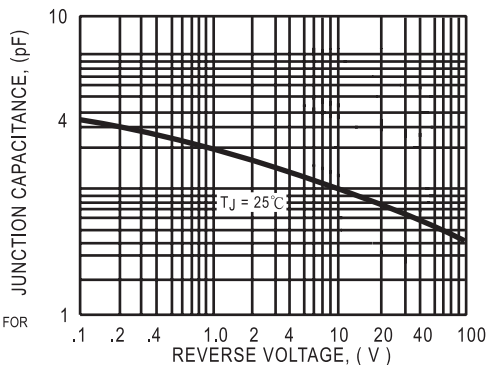


FIG. 6 - TYPICAL JUNCTION CAPACITANCE



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