



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

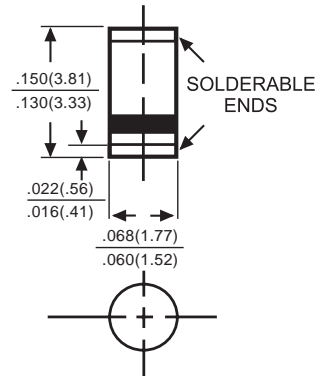
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.036 gram

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 | V _{RRM} | 50 | 100 | 200 | 400 | 600 | Volts |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | Volts |
| Maximum Average Forward Rectified Current T _A = 55°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} | 10 | | | | | Amps |
| Maximum Forward Voltage at 0.5A DC | V _F | 1.3 | | | | | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 5.0 | | | | | uAmps |
| @ T _A = 125°C | | 100 | | | | | |
| Maximum Reverse Recovery Time (Note 3) | t _{rr} | 150 | | | | 250 | nSec |
| Maximum Thermal Resistance (Note 2) | R _{θJL} | 70 | | | | | °C/W |
| Typical Junction Capacitance (Note 1) | C _J | 4.0 | | | | | 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) 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)

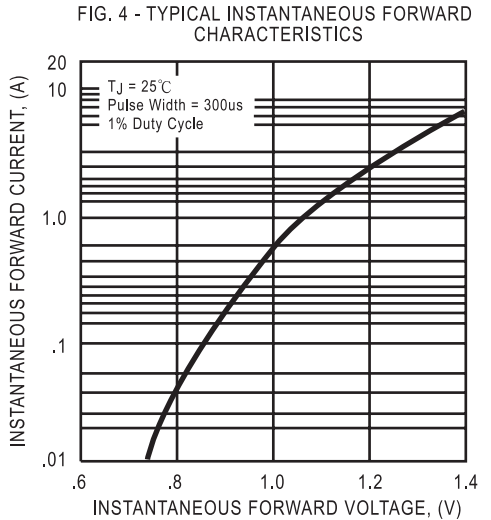
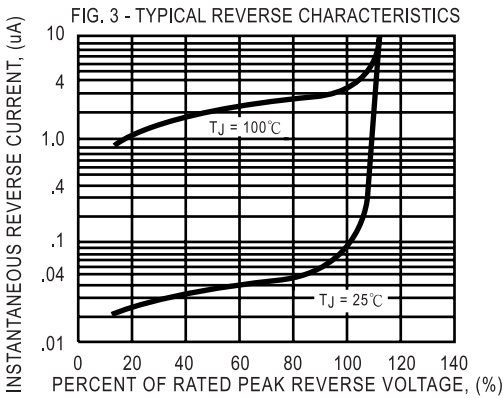
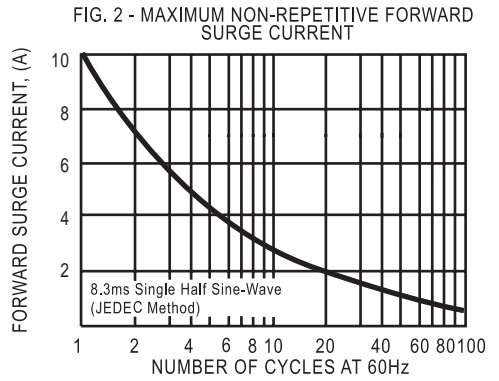
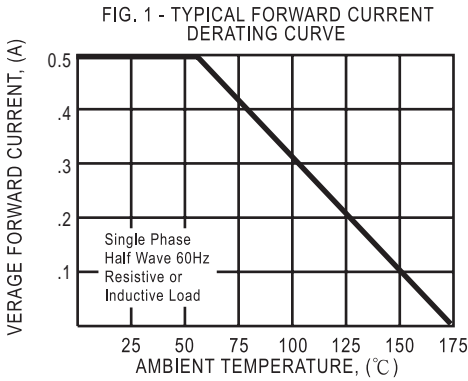


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

