




# RL201G THRU RL207G

## 2.0 AMPS. GLASS PASSIVATED RECTIFIERS



**FEATURES**

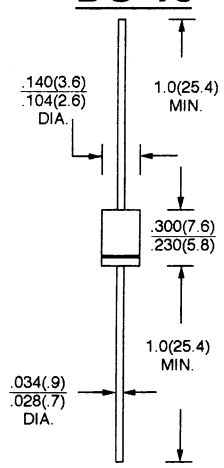
- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability

**MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V - 0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL - STD - 202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting Position: Any
- \* Weight: 0.40 grams

**VOLTAGE RANGE**  
50 to 1000 Volts  
**CURRENT**  
2.0 Amperes

**DO-15**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 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%

TYPE NUMBER	SYMBOLS	RL 201G	RL 202G	RL 203G	RL 204G	RL 205G	RL 206G	RL 207G	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum D. C Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm) lead length @ T <sub>A</sub> = 60°C	I <sub>F(AV)</sub>	2.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	55							A
Maximum Instantaneous Forward Voltage at 2.0A	V <sub>F</sub>	1.0							V
Maximum D. C Reverse Current @ T <sub>A</sub> = 25°C at Rated D. C Blocking Voltage @ T <sub>A</sub> = 125°C	I <sub>R</sub>	5.0 100							μA μA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	35							pF
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	- 65 to + 150							°C

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0V D. C.

## RATINGS AND CHARACTERISTIC CURVES (RL201G THRU RL207G)

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

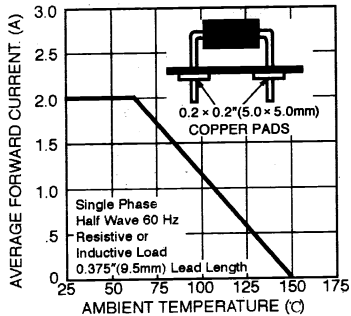


FIG. 2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

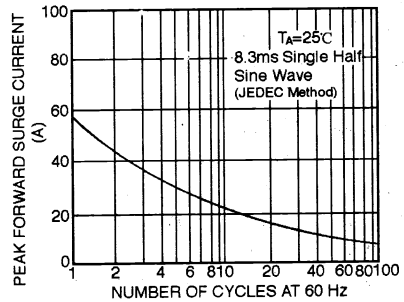


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

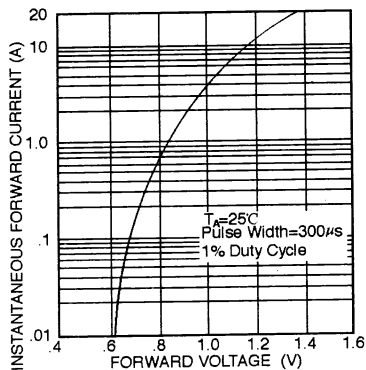


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

