

# **RL201G THRU RL207G**

## **GENERAL PURPOSE PLASTIC RECTIFIER**

Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0Amperes

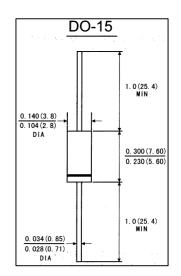
#### FEATURES

- . The plastic package carries Underwrites Laboratory
- Flammability Classification 94V-0
- . High current capaility
- . Low reverse leakage
- . Glass passivated junction
- . Low forward voltage drop
- . High temperature soldering guaranteed: 350  $^\circ\!\!\mathbb{C}/10$  seconds,

0.375"(9.5mm)lead length,5lbs.(2.3kg)tension

## **MECHANICAL DATA**

- . Case: JEDEC DO-15 molded plastic body
- . Terminals: Plated axial lead solderable per MIL-STD-750, method 2026
- . Polarity: Color band denotes cathode end
- . Mounting Position: Any
- . Weight: 0.014 ounce, 0.39 gram



#### **Dimensions in inches and (millimeters)**

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25  $^{\circ}$ C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive) load. For capacitive load, derate by 20%)

		Symbols	1N 201G	1N 202G	1N 203G	1N 204G	1N 205G	1N 206G	1N 207G	Units
Maximum repetitive peak reverse voltage		Vrrm	50	100	300	400	600	200	1000	Volts
Maximum RMS voltage		Vrms	35	70	210	280	420	140	700	Volts
Maximum DC blocking voltage		VDC	50	100	300	400	600	200	1000	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at TA=75 $^\circ\!\!\mathrm{C}$		l(AV)				2.0				Amps
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)		Ifsm				70.0				Amps
Maximum instantaneous forward voltage at 2.0 A		VF	1.1						Volts	
Maximum reverse TA=2	:5℃	IR	5.0							μΑ
current at rated DC blocking voltage TA=1	<b>00</b> ℃	IR	50.0							
Typeical thermal resistance(Note 2)		Rθja				40.0				°C/W
Typical junction Capacitance(Note 1)		CJ				20.0				pF
Operating and storage temperature range		TJ Tstg	-50 to +175							°C

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC

2. Thermal resistance from juntion to ambient and from junction lead at 0.375"(9.5mm)lead length,

P.C.B. Mounted



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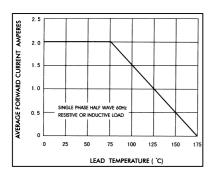
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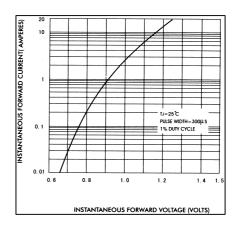
Forward Current - 2.0Amperes

## **RATINGS AND CHARACTERISTIC CURVES RL201G THRU RL207G**

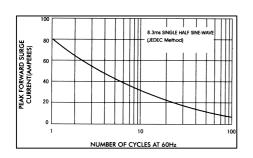
## FLG.1-FORWARD CURRENT DERATING CURVE



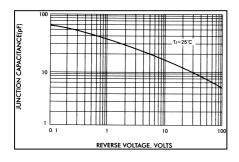
## FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



## FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



### FIG.5-TYPICAL JUNCTION CAPACITANCE



### FIG.4-TYPICAL REVERSE CHARACTERISTICS

