



# RL151G thru RL157G

Glass Passivated Junction Rectifiers  
Reverse Voltage 50 to 1000 Volts Forward Current 1.5 Amperes

## Features

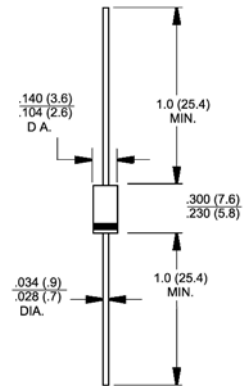
- ◆ Glass passivated chip
- ◆ Low reverse leakage current
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ Plastic material has UL flammability classification 94V-0



DO-204AC (DO-15)

## Mechanical Data

- ◆ Case : JEDEC DO-204AC(DO-15) molded plastic
- ◆ Polarity : Color band denotes cathode
- ◆ Weight : 0.014 ounce, 0.395 gram
- ◆ Mounting position : Any



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	RL151G	RL152G	RL153G	RL154G	RL155G	RL156G	RL157G	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current @ $T_A = 55^\circ\text{C}$	$I_{(AV)}$					1.5			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$					50.0			Amps
Maximum forward Voltage at 1.5A DC	$V_F$					1.1			Volts
Maximum DC reverse current at rated DC blocking voltage @ $T_J = 25^\circ\text{C}$ @ $T_J = 125^\circ\text{C}$	$I_R$					5.0 200			$\mu\text{A}$
Typical junction capacitance (Note 1)	$C_J$					15			pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$					25			$^\circ\text{C}/\text{W}$
Operating junction temperature range	$T_J$					-55 to +150			$^\circ\text{C}$
Storage temperature range	$T_{STG}$					-55 to +150			$^\circ\text{C}$

- Notes:**
1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.
  2. Thermal Resistance Junction to Ambient

# RATINGS AND CHARACTERISTIC CURVES

