

## RL151G THRU RL157G

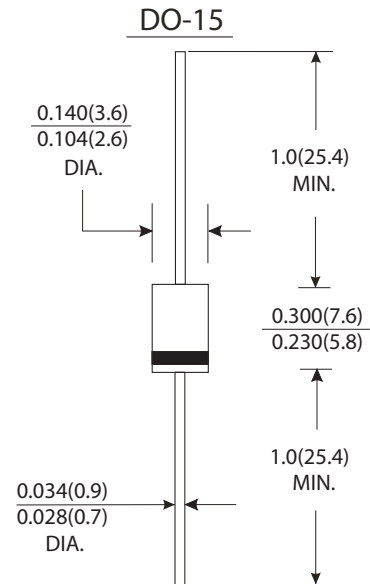
CURRENT 1.5 Amperes  
VOLTAGE 50 to 1000 Volts

### Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High current capability
- Low reverse leakage
- Glass passivated junction
- Low forward voltage drop
- High temperature soldering guaranteed : 350 °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, 0.33 gram



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 by 20%)

	Symbols	RL 151G	RL 152G	RL 153G	RL 154G	RL 155G	RL 156G	RL 157G	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length T <sub>A</sub> =75 °C	I <sub>(AV)</sub>	1.5							Amps
Peak forward surge current 8.3ms half sing wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	60.0							Amps
Maximum instantaneous forward voltage at 1.5A	V <sub>F</sub>	1.1							Volts
Maximum reverse current at rated DC blocking voltage	T <sub>A</sub> =25 °C	5.0							μA
	T <sub>A</sub> =100 °C	50.0							
Typical thermal resistance (Note 2)	R <sub>θJA</sub>	50.0							°C/W
Typical junction capacitance (Note 1)	C <sub>J</sub>	20.0							pF
Operating and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-50 to +175							°C

#### Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted



# RATINGS AND CHARACTERISTIC CURVES RL151G THRU RL157G

FIG.1-FORWARD CURRENT DERATING CURVE

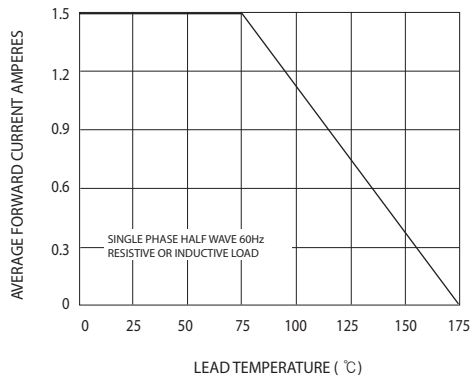


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

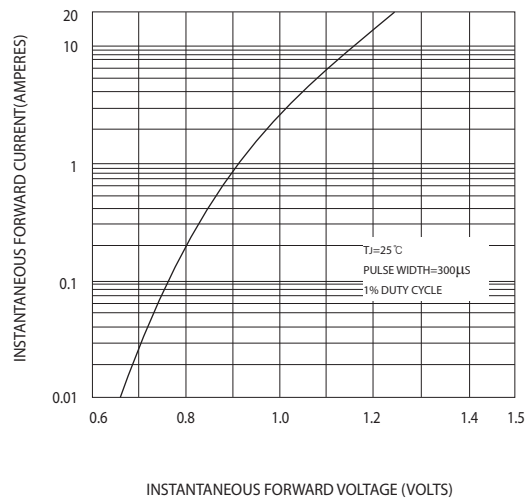


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

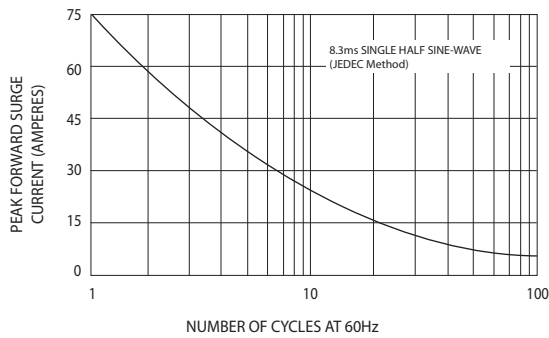


FIG.4-TYPICAL REVERSE CHARACTERISTICS

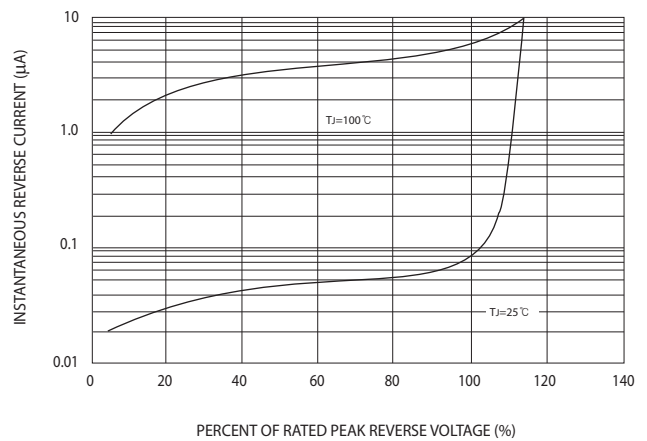


FIG.5-TYPICAL JUNCTION CAPACITANCE

