

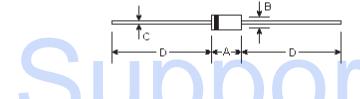
RL151G THRU RL157G

GLASS PASSIVATED JUNCTION RECTIFIER
Reverse Voltage - 50 to 1000 Volts
Forward Current - 1.5 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame retardant epoxy molding compound
- 1.5 ampere operation at T_A=55^oC with no thermal runaway
- Glass passivated junction

DO-15



Mechanical Data

• Case: Molded plastic, DO-15

• Terminals: Axial leads, solderable per

MIL-STD-202, method 208

• Polarity: Color band denotes cathode

Mounting Position: AnyWeight: 0.014 ounce, 0.395 gram

DIMENSIONS											
DIM	inc	hes	m	Note							
	Min.	Max.	Min.	Max.	Note						
Α	0.228	0.299	5.8	7.6							
В	0.102	0.142	2.6	3.6	ф						
С	0.028	0.034	0.71	0.86	ф						
D	1.000	1	25.40	-							

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%.

	Symbols	RL 151G	RL 152G	RL 153G	RL 154G	RL 155G	RL 156G	RL 157G	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 0.375" (9.5mm) lead length at $\rm T_A$ =55 $^{\circ}C$	I _(AV)	1.5						Amps	
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	50.0						Amps	
Maximum forword voltage at 1.5A	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage T _J =25°C T _J =100°C	I _R	5.0 125.0							μА
Typical junction capacitance (Note 1)	C _J	25.0							ρF
Typical thermal resistance (Note 2)	R _{⊕JA}	45.0						°C/W	
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150						$^{\circ}$	

Notes:

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- (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

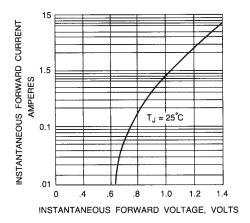


Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

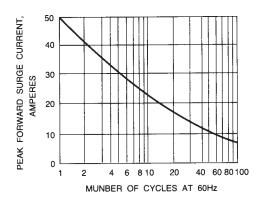


Fig. 2 - PEAK FORWARD SURGE CURRENT

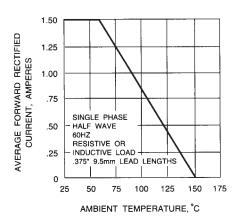


Fig. 3 - FORWARD CURRENT DERATING CURVE

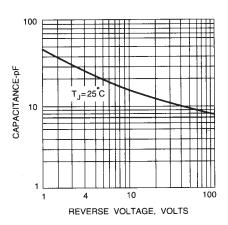


Fig. 4 - TYPICAL JUNCTION CAPACITANCE