



RL151 THRU RL157

1.5 A Silicon Rectifiers

Voltage Range 50 to 1000 Volts

Current 1.5Amperes

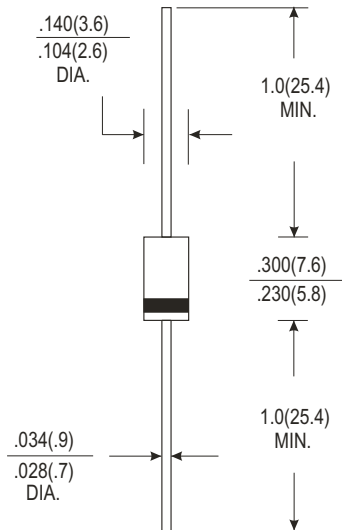
Features

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

Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: Axial leads, solderable per MIL- STD-202, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * High temperature soldering guaranteed:
250°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg)tension
- * Weight: 0.40 gram

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	RL 151	RL 152	RL 153	RL 154	RL 155	RL 156	RL 157	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length @ T _A =75°C	1.5							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50							A
Maximum Instantaneous Forward Voltage @2.0A	1.1							V
Maximum DC Reverse Current @ T _A =25°C	5.0							uA
At Rated DC Blocking Voltage @ T _A =100°C	50							uA
Typical Junction Capacitance (Note1)	30							pF
Typical Thermal Resistance R _θ JA (Note 2)	25							°C/W
Operating Temperature Range T _J	-55 to +125							°C
Storage Temperature Range T _{STG}	-55 to +150							°C

Notes:

1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) Lead Length.

[Http://www.upm.com.tw](http://www.upm.com.tw)

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RATINGS AND CHARACTERISTIC CURVES (RL151 THRU RL157)

