

**GLASS PASSIVATED
JUNCTION PLASTIC RECTIFIER**

**RL151G
THRU
RL157G**

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.5 Amperes

FEATURES

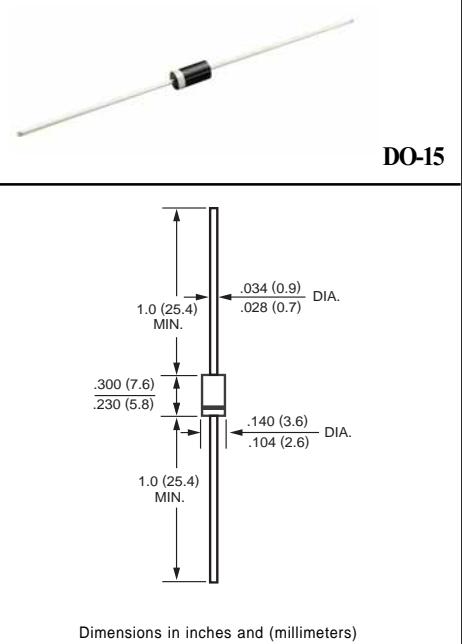
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.38 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	RL151G	RL152G	RL153G	RL154G	RL155G	RL156G	RL157G	UNITS
Maximum Recurrent 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 at TA = 75°C	I _o					1.5			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}					60			Amps
Typical Junction Capacitance (Note)	C _J				20				pF
Typical Thermal Resistance	R _θ JA				50				°C/W
Operating and Storage Temperature Range	T _J , T _{STG}				-65 to +175				°C

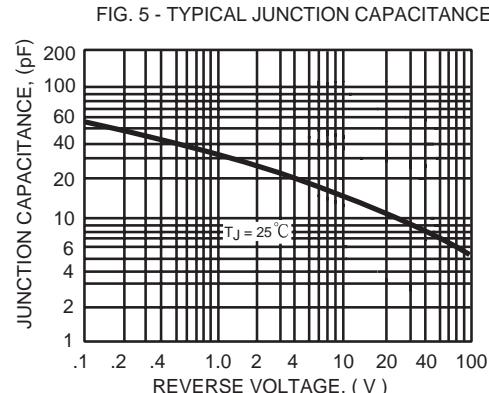
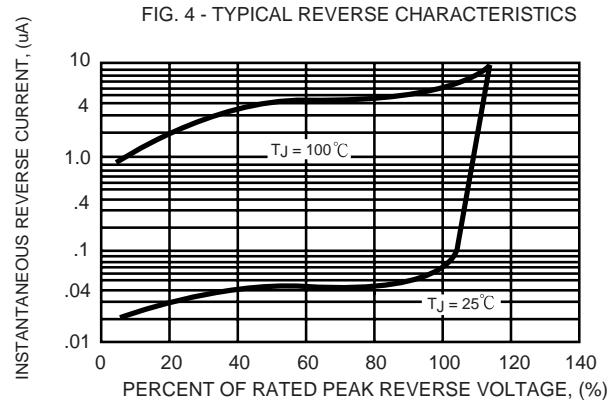
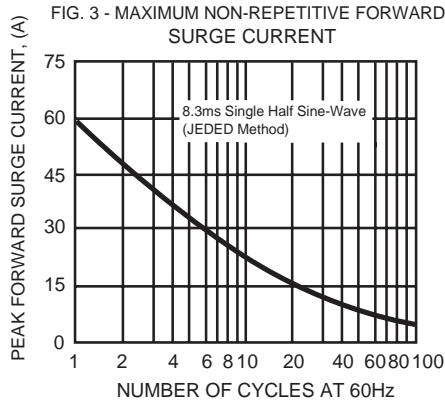
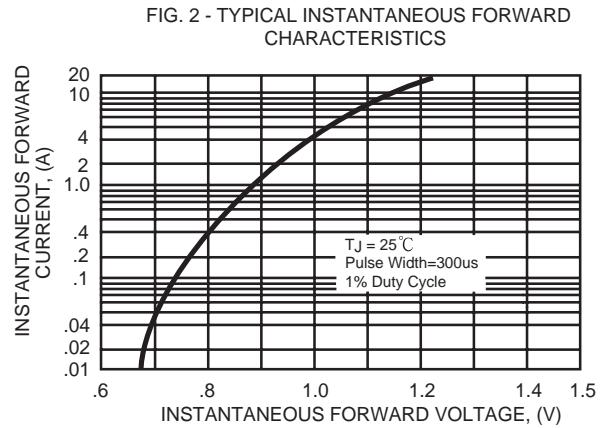
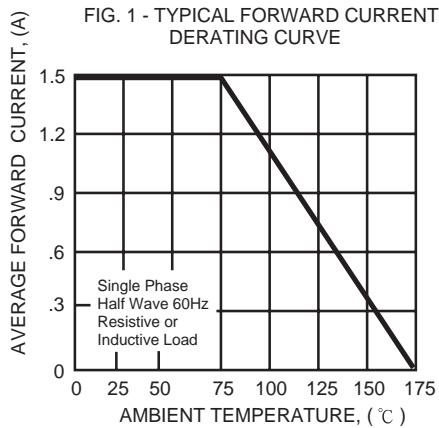
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	RL151G	RL152G	RL153G	RL154G	RL155G	RL156G	RL157G	UNITS
Maximum Instantaneous Forward Voltage at 1.5A DC	V _F				1.1				Volts
Maximum DC Reverse Current	I _R	@ TA = 25°C			5.0				uAmps
at Rated DC Blocking Voltage			@ TA = 100°C		50				uAmps
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 75°C					30				uAmps

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts

2001-6

RATING AND CHARACTERISTIC CURVES (RL151G THRU RL157G)



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