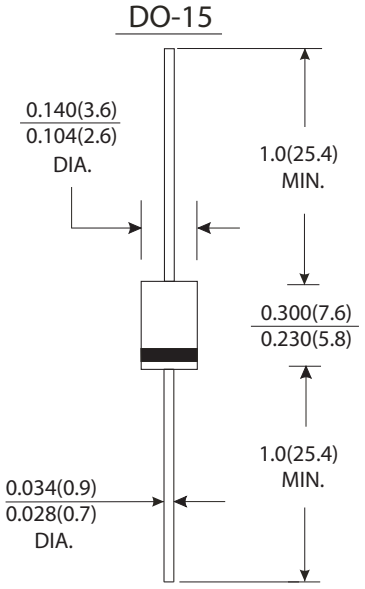
DEC

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℃/10 seconds, 0.375"(9.5mm) lead length, 5lbs.(2.3kg) tension



Dimensions in inches and (millimeters)

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

Maximum Ratings And Electrical Characteristics

(Ratings at 25℃ 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_{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 T_A=75℃	$I_{(AV)}$	1.5							Amps
Peak forward surge current 8.3ms half sing wave superimposed on rated load (JEDEC method)	I_{FSM}	60.0							Amps
Maximum instantaneous forward voltage at 1.5A	V_F	1.1							Volts
Maximum reverse current at rated DC blocking voltage, T_A=25℃	I_R	5.0							μA
Maximum reverse current at rated DC blocking voltage, T_A=100℃	I_R	50.0							μA
Typical thermal resistance (Note 2)	$R\Theta_{JA}$	50.0							℃/W
Typical junction capacitance (Note 1)	C_J	20.0							pF
Operating and storage temperature range	T_J T_{STG}	-50 to +175							℃

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

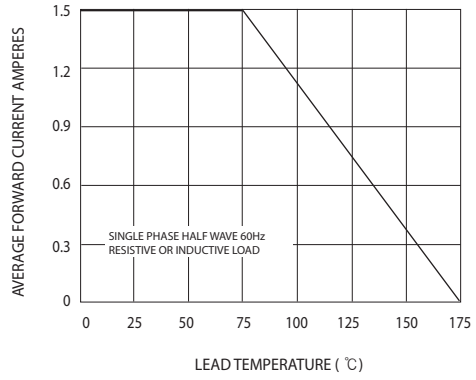


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

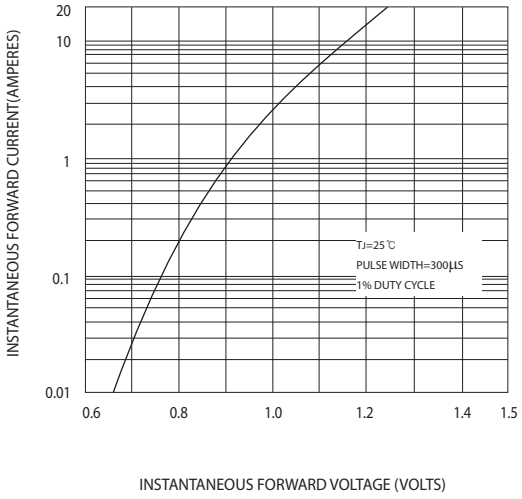


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

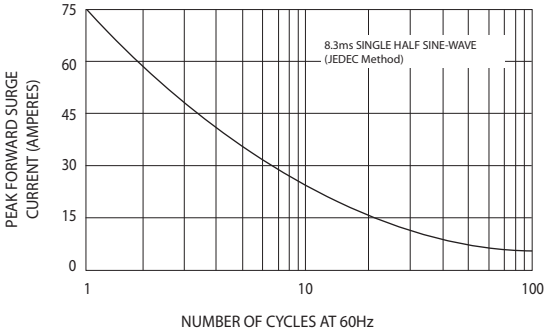


FIG.4-TYPICAL REVERSE CHARACTERISTICS

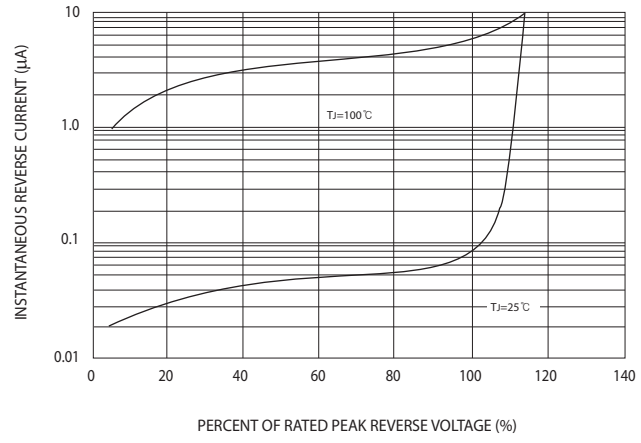


FIG.5-TYPICAL JUNCTION CAPACITANCE

