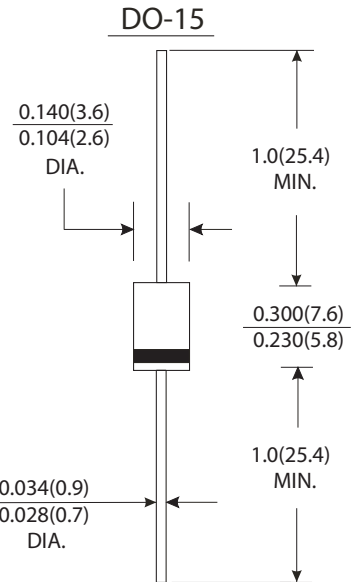


Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High surge current capability
- 1.5A operation at $T_L=75^\circ\text{C}$ with no thermal runaway
- Low reverse leakage
- Low forward voltage drop
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed : $250^\circ\text{C}/10$ seconds, 0.375"(9.5mm) lead length, 5lbs.(2.3kg) tension

Mechanical Data

- Case : JEDEC DO-15 molded plastic body
- Terminals : 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 151	RL 152	RL 153	RL 154	RL 155	RL 156	RL 157	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 $T_A=75^\circ\text{C}$	$I_{(AV)}$	1.5							Amps
Peak forward surge current 8.3ms half sine 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	$T_A=25^\circ\text{C}$	5.0							μA
	$T_A=100^\circ\text{C}$								
Typical thermal resistance (Note 2)	$R_{\theta JA}$	50.0							$^\circ\text{C}/\text{W}$
Typical junction capacitance (Note 1)	C_J	20.0							pF
Operating and storage temperature range	T_J T_{STG}	-50 to +175							$^\circ\text{C}$

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 RL151 THRU RL157

FIG.1-FORWARD CURRENT DERATING CURVE

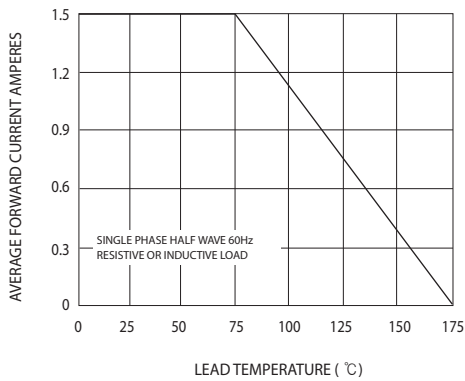


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

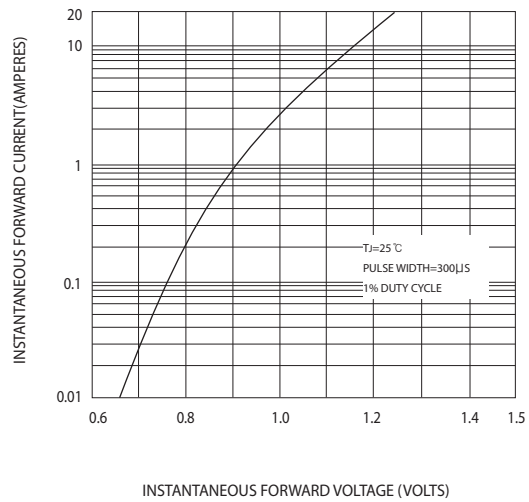


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

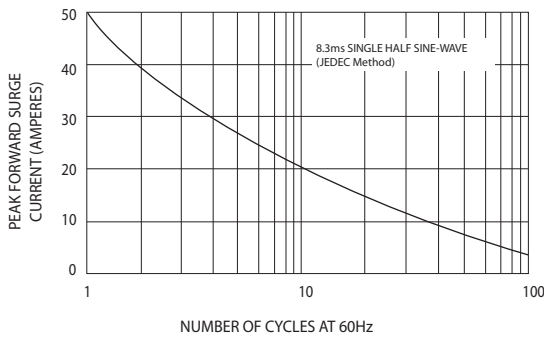


FIG.4-TYPICAL REVERSE CHARACTERISTICS

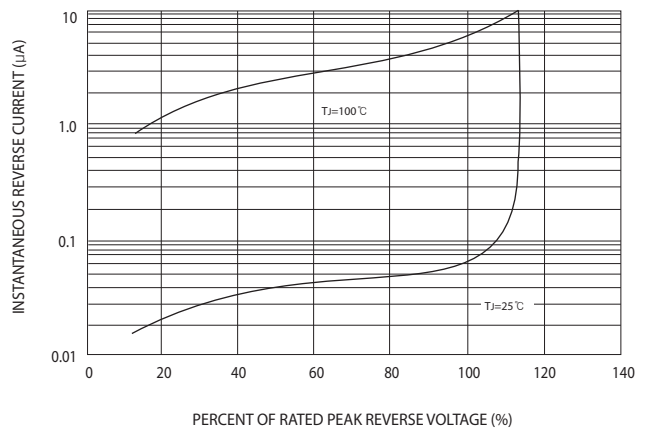


FIG.5-TYPICAL JUNCTION CAPACITANCE

