

RL201 THRU RL207

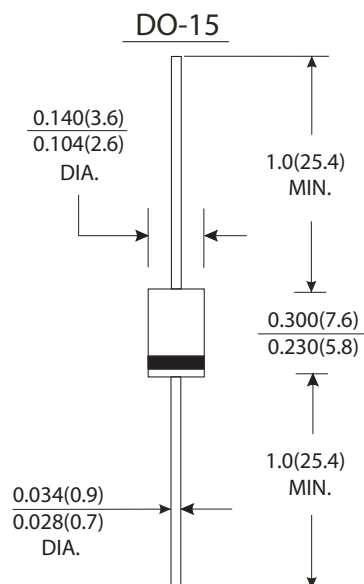
CURRENT 2.0 Amperes
VOLTAGE 50 to 1000 Volts

Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High surge current capability
- 2.0A operation at $T_L=75^{\circ}\text{C}$ with no thermal runaway
- Low reverse leakage
- 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-STR-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 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	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 °C		I _(AV)	2.0							Amps
Peak forward surge current 8.3ms half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	70.0							Amps
Maximum instantaneous forward voltage at 2.0A		V _F	1.1							Volts
Maximum reverse current at rated DC blocking voltage	T _A =25 °C	I _R	5.0							μA
	T _A =100 °C		50.0							
Typical thermal resistance (Note 2)		R _{θJA}	40.0							°C/W
Typical junction capacitance (Note 1)		C _J	20.0							pF
Operating and storage temperature range		T _J T _{STG}	-50 to +175							°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 RL201 THRU RL207

FIG.1-FORWARD CURRENT DERATING CURVE

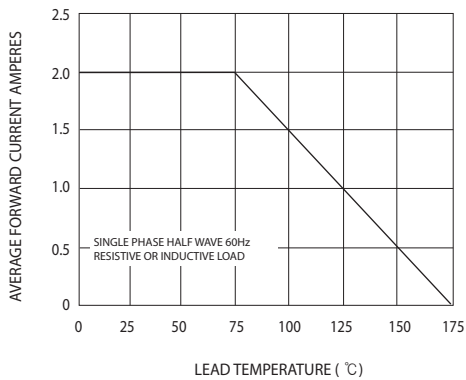


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

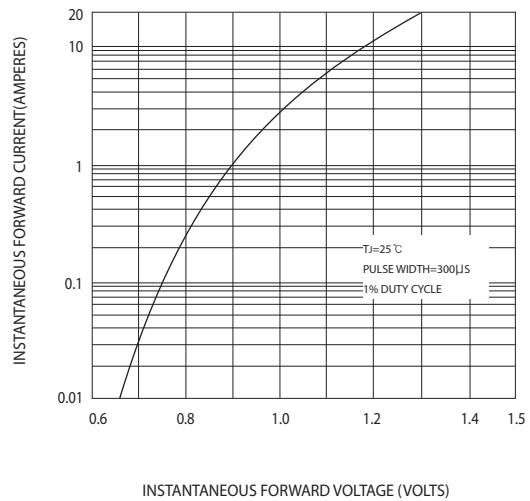


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

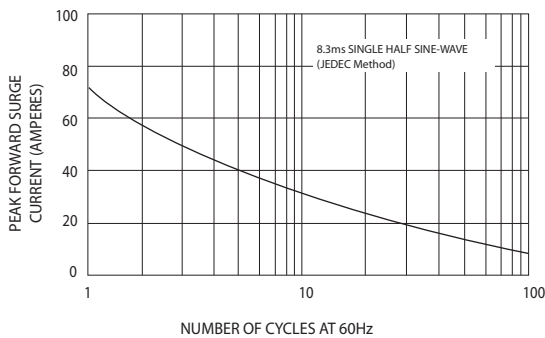


FIG.4-TYPICAL REVERSE CHARACTERISTICS

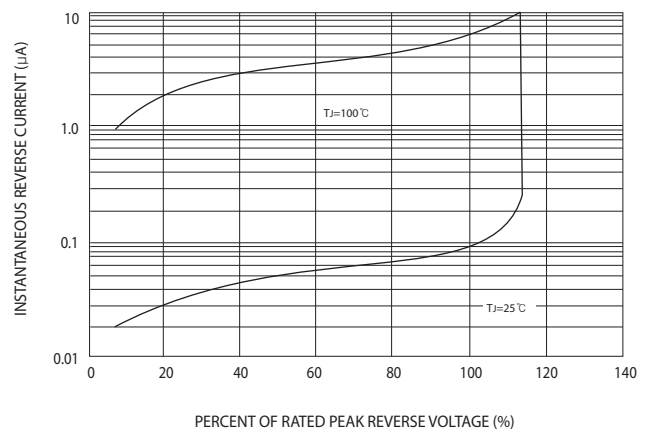


FIG.5-TYPICAL JUNCTION CAPACITANCE

