

## I. General Purpose Rectifier

### 2.0A Silicon Rectifier

**RL201~RL207**

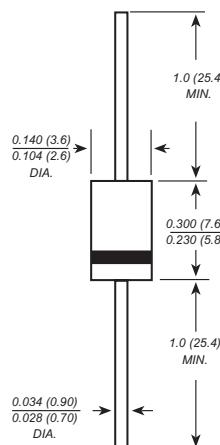
**(Package: DO-15)**

#### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed : 250 °C /10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3Kg) tension

#### MECHANICAL DATA

- Case : DO-15 molded plastic body
- Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.014 ounces, 0.40 grams



Case: DO-15  
Dimensions in inches and (millimeters)

## Ratings & Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	RL201	RL202	RL203	RL204	RL205	RL206	RL207	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at Ta = 75	I <sub>o</sub>	2.0						Amps	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50.0						Amps	
Maximum instantaneous forward voltage at 2.0 A	V <sub>F</sub>	1.4						Volts	
Maximum DC reverse current Ta = 25 at rated DC blocking voltage Ta = 100	I <sub>R</sub>	5.0 200						μA	
Typical junction capacitance (Note 1)	C <sub>j</sub>	20.0						pF	
Typical thermal resistance (Note 2)	R <sub>th-JA</sub>	50.0						/ W	
Operating junction and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-65 to +175							

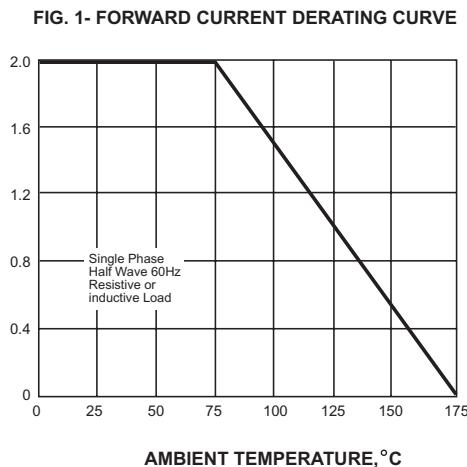
Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

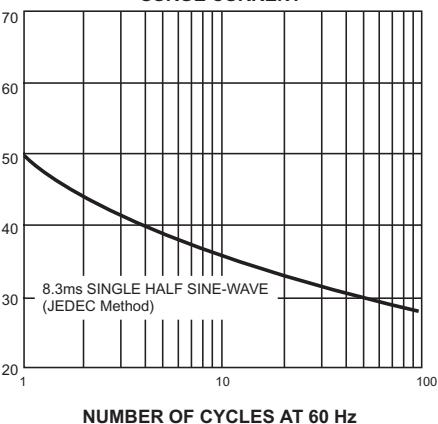
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

## Ratings and Characteristic Curves of RL201~RL207

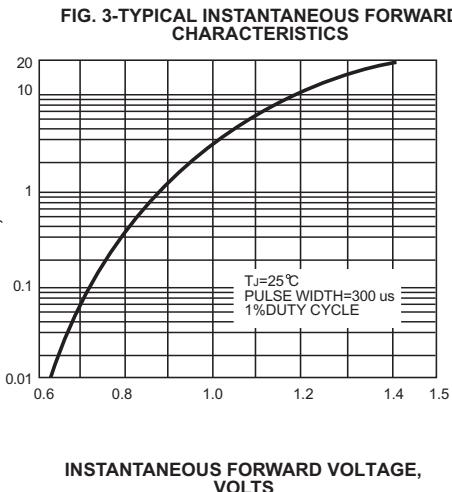
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES



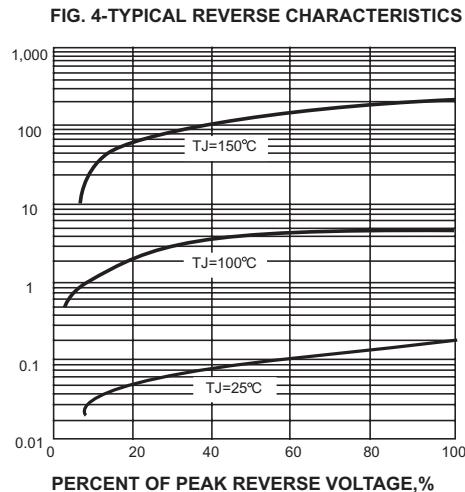
PEAK FORWARD SURGE CURRENT,  
AMPERES



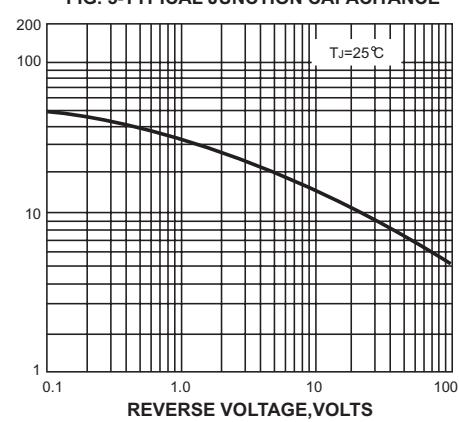
INSTANTANEOUS FORWARD  
CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,  
MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,  
°C/W

