

## **RL201 THRU RL207**

## **GENERAL PURPOSE PLASTIC RECTIFIER**

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0Amperes

### **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 TL=75°C with no thermal runaway
- . Low reverse leakage
- . High temperature soldering guaranteed: 250°C/10 seconds,

0.375"(9.5mm)lead length,5lbs.(2.3kg)tension

## **MECHANICAL DATA**

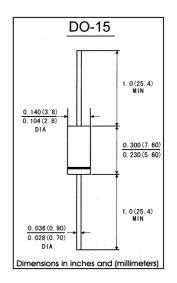
. Case: JEDEC DO-15 molded plastic body

. 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



## 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 repetitive peak reverse voltage		VRRM	50	100	300	400	600	200	1000	Volts
Maximum RMS voltage		VRMS	35	70	210	280	420	140	700	Volts
Maximum DC blocking voltage		VDC	50	100	300	400	600	200	1000	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at Ta=70°C		I(AV)	2.0						Amps	
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)Ta=70°C		IFSM	70.0						Amps	
Maximum instantaneous forward voltage at 1.5 A		VF	1.1						Volts	
Maximum reverse	TA=25℃	- IR	5.0							μА
current at rated DC blocking voltage	TA=100°C	IK IK	50.0							
Typeical thermal resistance(Note 2)		$R\theta$ JA	40.0							°C/W
Typical junction Capacitance(Note 1)		Сл	20.0						pF	
Operating and storage temperature range		Тл Тsтg	-50 to +175							$^{\circ}$ C

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC

2. Thermal resistance from juntion to ambient and from junction lead at 0.375" (9.5 mm) lead length,

P.C.B. Mounted



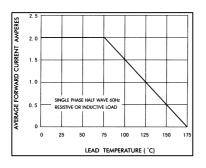
## **RL201 THRU RL207**

## **GENERAL PURPOSE PLASTIC RECTIFIER**

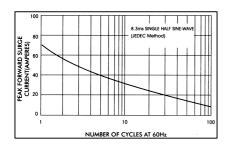
Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0Amperes

## **RATINGS AND CHARACTERISTIC CURVES RL201 THRU RL207**

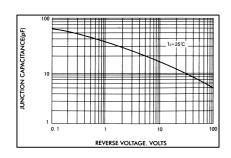
#### **FLG.1-FORWARD CURRENT DERATING CURVE**



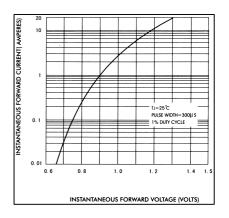
# FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



#### FIG.5-TYPICAL JUNCTION CAPACITANCE



# FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



#### FIG.4-TYPICAL REVERSE CHARACTERISTICS

