

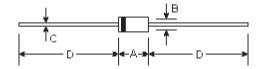
RL201 THRU RL207

GENERAL PURPOSE PLASTIC RECTIFIER
Reverse Voltage - 50 to 1000 Volts
Forward Current - 2.0 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High surge current capability
- 2.0 ampere operation at T_x=75 °C with no thermal runaway
- Low reverse leakage
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3Kg) tension

DO-15



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 ounce, 0.39 gram

DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
Α	0.228	0.299	5.8	7.6						
В	0.102	0.142	2.6	3.6	ф					
С	0.028	0.034	0.71	0.86	ф					
D	1.000	-	25.40	-						

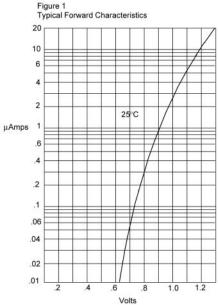
Maximum Ratings and Electrical Characteristics @25℃ unless otherwise specified

	Symbols	RL201	RL202	RL203	RL204	RL205	RL206	RL207	Units
Maximum repetitive 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 current at $T_{\rm A}$ =75 $^{\circ}{\rm C}$	I _(AV)	2.0							Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	70.0							Amps
Maximum instantaneous forward voltage at I _{FM} =2.0A, T _A =25 [°] C (Note 2)	V _F	1.0							Volts
Maximum DC reverse current T_=25°C at rated DC blocking voltage T_A=100°C	I _R	5.0 50.0							μА
Typical junction capacitance (Note 1)	C _J	20.0							ρF
Typical thermal resistance	R _{UJA}	40						°C/W	
Operating and storage temperature range	T _J , T _{STG}	-65 to 175							$^{\circ}$

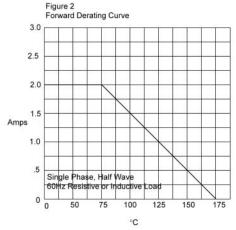
Notes:

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0 volts.
- (2) Pulse test: pulse width 300uSec, Duty cycle 1%.

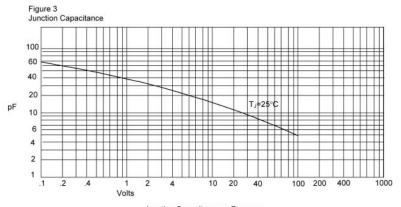
RATINGS AND CHARACTERISTIC CURVES



Instantaneous Forward Current - MicroAmperesversus Instantaneous Forward Voltage - Volts



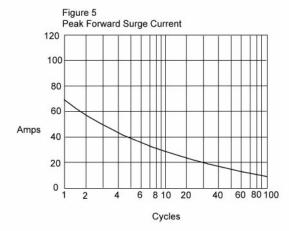
Average Forward Rectified Current - Amperesversus Ambient Temperature -°C



RATINGS AND CHARACTERISTIC CURVES

Figure 4 Typical Reverse Characteristics 6 4 2 TJ=100°C 1 .6 .4 .2 Amps .1 .06 .04 T_=25°C .02 .01 .006 .00 .002 .001 ____ 40 60 80 100 120 140 Volts

Instantaneous Reverse Current - Ampsversus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles