

RL101 THRU RL107

General Purpose Plastic Rectifiers Reverse Voltage 50 to 1000 Volts Forward Current 1.0 Ampere

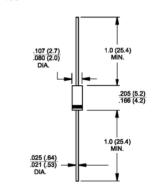
Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Φ 0.6mm leads
- ◆ T₁ is 150°C (Max.) and T_{STG} is 175°C (Max.) with PI glue

Mechanical Data

- ◆ Case: Molded plastic A-405
- ◆ Epoxy: UL 94V-O rate flame retardant
- ◆ Lead: Axial leads, solderable per MIL-STD-202, Method 208 quaranteed
- ◆ Polarity: Color band denotes cathode end ◆ High temperature soldering guaranteed:
 - 250°C/10 seconds .375" (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Weight: 0.008 ounce, 0.23 gram

A-405



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 current by 20%

Parameter	Symbols	RL101	RL102	RL103	RL104	RL105	RL106	RL107	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 rectified current 0.375" (9.5mm) lead length @T _A =50°C	I _(AV)	1.0							Amp
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30.0							Amps
Maximum instantaneous forward voltage @ 1.0A	V _F	1.1							Volts
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	l _R	5.0 50							uА
Maximum full load reverse current full cycle average, 0.375" (9.5mm) lead length @T _A =75°C	I _{R(AV)}	30							uА
Typical junction capacitance (Note 1)	C _J	15							pF
Typical thermal resistance (Note 2)	R _{eJA}	50							°C/W
Operating junction temperature range	T _J	-55 to +125							°C
Storage temperature range	T _{STG}	-55 to +150							°C

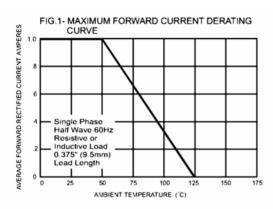
1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

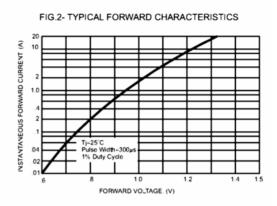
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) Lead Length

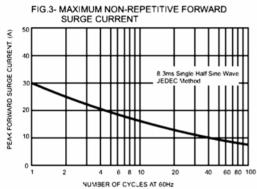
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RATINGS AND CHARACTERISTIC CURVES







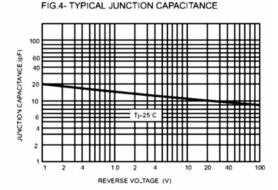


FIG.5- TYPICAL REVERSE CHARACTERISTICS

