

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N / RL 4001A / 101 THRU 1N / RL 4007A / 107

TECHNICAL SPECIFICATIONS OF SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- * High reliability
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

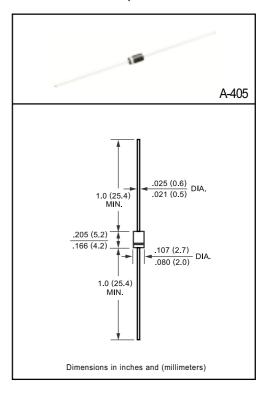
* Polarity: Color band denotes cathode end

* Mounting position: Any

* Weight: 0.22 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



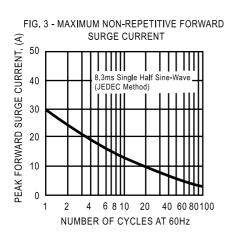
		1N4001A	1N4002A	1N4003A	1N4004A	1N4005A	1N4006A	1N4007A	l
	SYMBOL	RL101	RL102	RL103	RL104	RL105	RL106	RL107	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	1.0							Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage @TA = 25°C @TA = 100°C	-	5.0 500							uAmps
Maximum Full Load Reverse Current Average, Full Cycle $.375^{*}(9.5mm)$ lead length at T $_{L}$ = $75^{\circ}C$	T IR	30							uAmps
Typical Junction Capacitance (Note)	Cı	15						pF	
Typical Thermal Resistance	RθJA	50						°C/W	
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 175							٥C

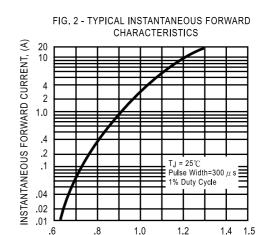
NOTES: Measured at 1 MHz and applied reverse voltage of 4.0 volts

RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT **DERATING CURVE** 1.0 AVERAGE FORWARD CURRENT, (A) .8 .6 .4 Single Phase Half Wave 60Hz .2 Resistive or Inductive Load 0 25 50 75 100 125 150 175

AMBIENT TEMPERATURE, (°C)





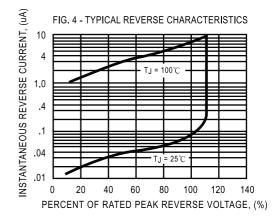
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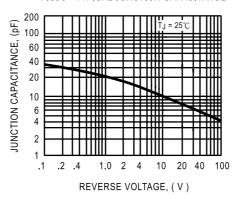
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RL101



INSTANTANEOUS FORWARD VOLTAGE, (V)







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