



**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

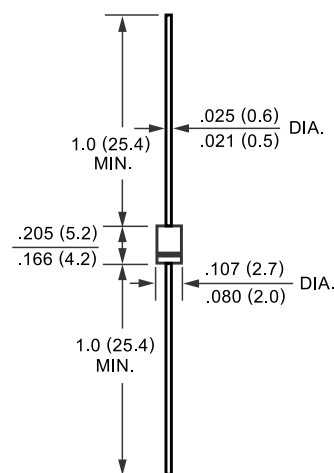
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.22 gram

### 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%.



A-405



Dimensions in inches and (millimeters)

		1N4001A	1N4002A	1N4003A	1N4004A	1N4005A	1N4006A	1N4007A		
	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	IO	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	IR	5.0							uAmps
			500							
Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at TL = 75°C				30						
Typical Junction Capacitance (Note)	CJ	15							pF	
Typical Thermal Resistance	RθJA	50							°C/W	
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 175							°C	

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