

# 1N4001L thru 1N4007L

## **PLASTIC SILICON RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere

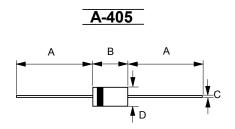
## **FEATURES**

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- · High current capability
- The plastic material carries UL recognition 94V-0

#### **MECHANICAL DATA**

Case: JEDEC A-405 molded plastic
Polarity: Color band denotes cathode
Weight: 0.008 ounces, 0.22 grams

• Mounting position : Any



	A-405					
Dim.	Min.	Max.				
Α	25.4	-				
В	4.10	5.20				
С	0.53 Ø	0.64 Ø				
D	2.00 Ø	2.70 Ø				
All Dimensions in millimeter						

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

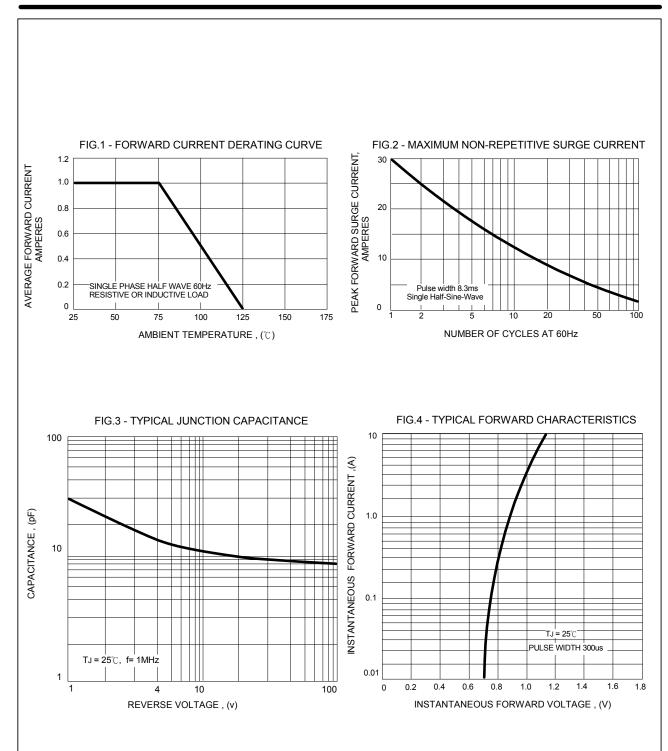
CHARACTERISTICS	SYMBOL	1N4001L	1N4002L	1N4003L	1N4004L	1N4005L	1N4006L	1N4007L	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta =75°C	I(AV)	1.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	IFSM	IFSM 30							Α
I <sup>2</sup> t Rating for fusing (t < 8.3ms)	I <sup>2</sup> t	3.7						$A^2S$	
Maximum forward Voltage at 1.0A DC	VF	1.0					٧		
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 25°C @TJ = 100°C	lR	5.0 50					uA		
Typical Junction Capacitance (Note 1)	Сл	15						pF	
Typical Thermal Resistance (Note 2)	Reja	50					°C/ <b>W</b>		
Operating Temperature Range	TJ	-55 to +125				°C			
Storage Temperature Range	Тѕтс	-55 to +150				℃			

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal Resistance Junction to Ambient.

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