

LL4001G THRU **LL4007G**

1.0 AMP Surface Mount Glass Passivated Silicon Rectifiers



Voltage Range 50 to 1000 Volts Current 1.0 Ampere

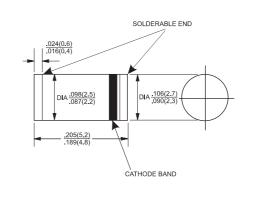
Features

- Plastic package has carries underwriters Laboratory flammability classification 94V-0
- Surge overload rating to 30 Ampers peak
- ♦ Ideal for printed circuit board.
- Reliable low cost construction utilizing molded plastic technique results in in-expensive product.
- High temperature soldering guaranteed: 260°C / 10 seconds at terminals.

Mechanical Data

- Solderability per MIL-STD-750, method 208 at terminals.
- ♦ Mounting position: Any
- ♦ Weight: 0.12 gram

0 Amper



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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%

roi capacitive load, derate current by 20%									
Type Number	Symbol		LL 4002G	LL 4003G	LL 4004G	LL 4005G	LL 4006G	LL 4007G	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_A = 75^{\circ}C$	I _(AV)	1.0						Α	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage @1.0A	V _F	1.1							V
Maximum DC Reverse Current @ T_A =25°C at Rated DC Blocking Voltage @ T_A =125°C	I _R	5 100							uA uA
Typical Junction Capacitance (Note 1)	Cj	15							pF
Typical Thermal Resistance (Note 2)	$R\theta_{JC}$	50							\mathbb{C} /W
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							${\mathbb C}$

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

2. Thermal Resistance from Junction to Ambient. Mount on 0.2" x 0.2" Cu-pad on P.C.B.



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RATINGS AND CHARACTERISTIC CURVES (LL4001G THRU LL4007G)

0

25

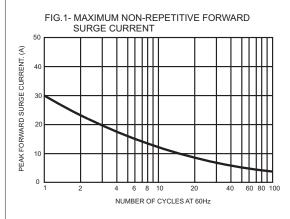


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

1.50

1.50

1.50

7.5

.50

.50

.50

AMBIENT TEMPERATURE. (°C)

FIG.3- TYPICAL JUNCTION CAPACITANCE

