

LL4001G THRU **LL4007G**

1.0 AMP Surface Mount Glass Passivated Silicon Rectifiers



Voltage Range 50 to 1000 Volts Current 1.0 Ampere

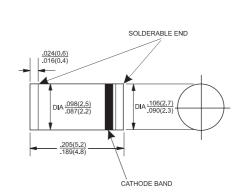
MELF

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



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%

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	V
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	I _R	5							uA
at Rated DC Blocking Voltage @ T _A =125℃		100							uA
Typical Junction Capacitance (Note 1)	Cj	15							рF
Typical Thermal Resistance (Note 2)	$R\theta JC$	50							\mathbb{C} /M
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							$^{\circ}$

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

2. Thermal Resistance from Junction to Ambient.

- 374 -



RATINGS AND CHARACTERISTIC CURVES (LL4001G THRU LL4007G)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

TO SURGE CURRENT

TO SURGE CONTROL TO

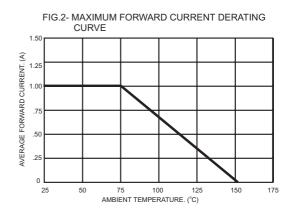


FIG.3- TYPICAL JUNCTION CAPACITANCE

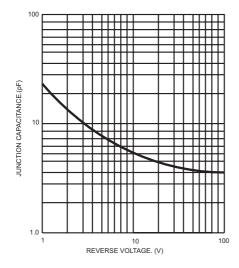


FIG.4- TYPICAL FORWARD CHARACTERISTICS

