



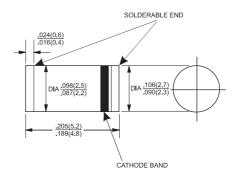
LL4001G - LL4007G

1.0AMP Surface Mount Glass Plassivated Silicon Rectifiers **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 °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							٧
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							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							°C

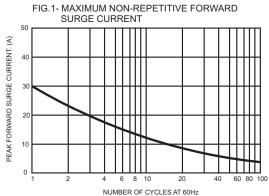
Notes:

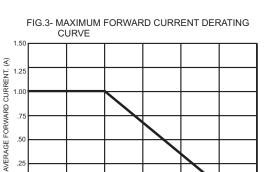
- 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
- 2. Thermal Resistance from Junction to case. Mount on 0.2" x 0.2" Cu-pad on P.C.B.

Version: A06



RATINGS AND CHARACTERISTIC CURVES (LL4001G THRU LL4007G)





AMBIENT TEMPERATURE. (°C)

150

175

FIG.2- TYPICAL FORWARD CHARACTERISTICS

10

1.0

0.1

0.01

0.4

0.6

0.8

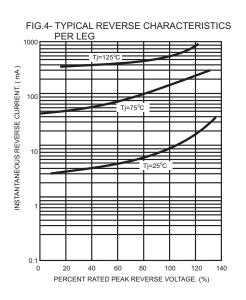
1.0

1.2

1.4

1.6

FORWARD VOLTAGE, (V)



0 L 25

