

# LL4000G Series

## Power Diodes - Standard Recovery



### Features:

- Surge overload ratings to 30 amperes peak.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.
- High temperature : 250°C/10 seconds at terminals.
- Soldering Guaranteed

### Mechanical Data:

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

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

### Maximum Ratings

Type Number	LL4001G	LL4002G	LL4004G	LL4007G	Unit
Max. Recurrent Peak Reverse Voltage	50	100	400	1,000	V
Max. RMS Voltage	35	70	280	700	
Max. DC Blocking Voltage	50	100	400	1,000	
Max. Average Forward Rectified Current at T <sub>A</sub> = 75°C	1				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave A Superimposed on Rated Load (JEDEC Method)	30				
Max. Instantaneous Forward Voltage at 1A	1.1				V
Max. DC Reverse Current at T <sub>A</sub> = 25°C at Rated DC Blocking Voltage at T <sub>A</sub> = 125°C	5 100				μA
Typical Junction Capacitance (Note 1)	15				pF
Typical Thermal Resistance R <sub>θJC</sub> (Note 2)	50				°C/W
Operating and Storage Temperature Range T <sub>J</sub> , T <sub>STG</sub>	-65 to +150				°C

### Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC
2. Thermal resistance from junction to ambient.

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### Ratings and Characteristic Curves

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

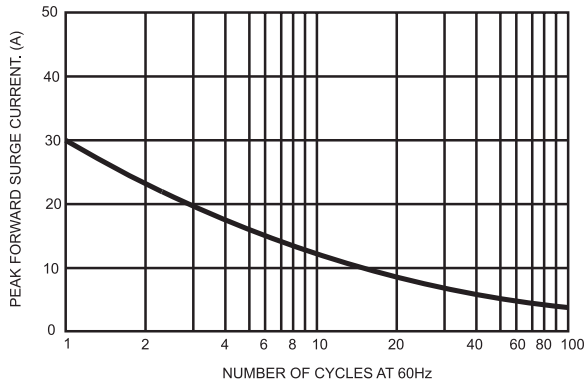


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

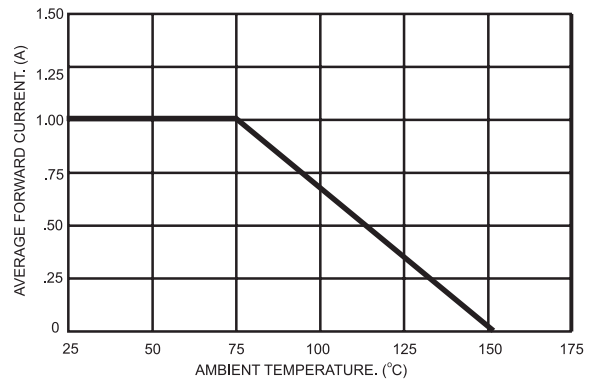


FIG.3- TYPICAL JUNCTION CAPACITANCE

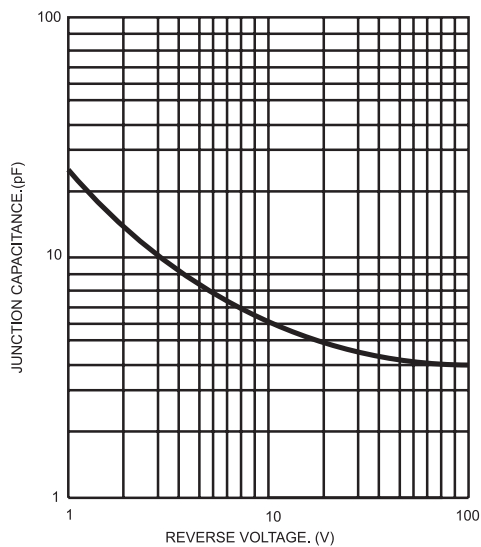
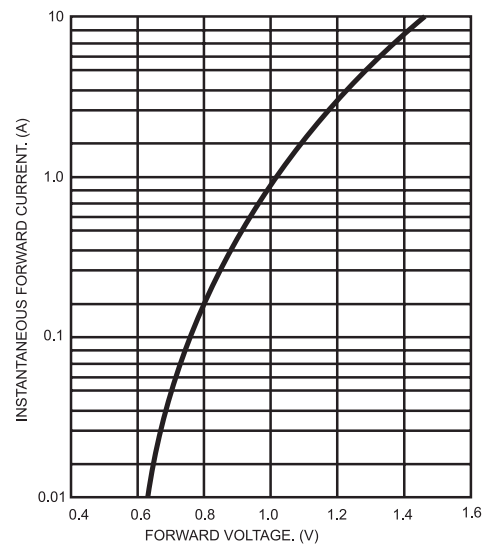


FIG.4- TYPICAL FORWARD CHARACTERISTICS

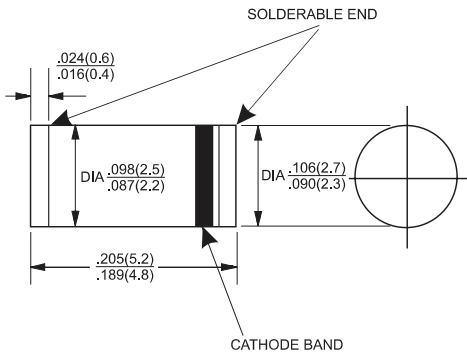


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### MELF



Dimensions : Inches (Millimetres)

### Part Number Table

Description	Part Number
MELF Power Diodes	LL4001G
	LL4002G
	LL4004G
	LL4007G

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