

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 _A = 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 _A = 25°C at Rated DC Blocking Voltage at T _A = 125°C	5 100				µA
Typical Junction Capacitance (Note 1)	15				pF
Typical Thermal Resistance R _{θJC} (Note 2)	50				°C/W
Operating and Storage Temperature Range T _J , T _{STG}	-65 to +150				°C

Notes:

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

LL4000G Series

Power Diodes - Standard Recovery



Ratings and Characteristic Curves

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

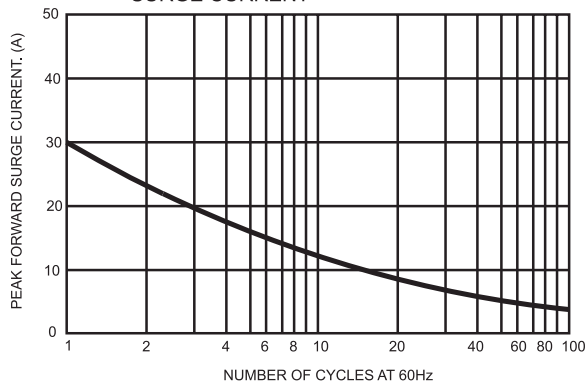


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

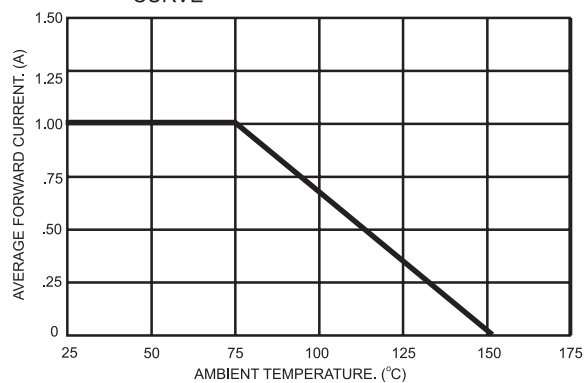


FIG.3- TYPICAL JUNCTION CAPACITANCE

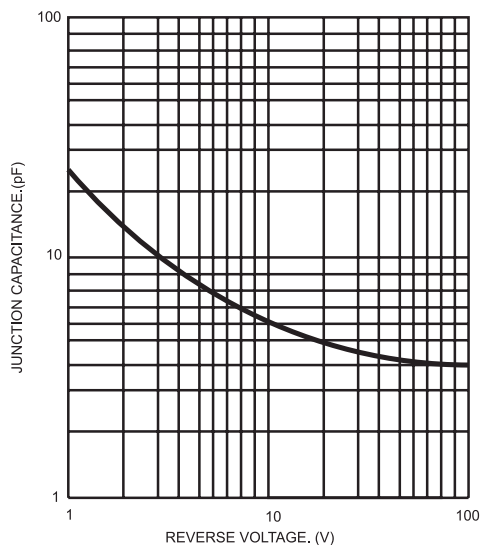
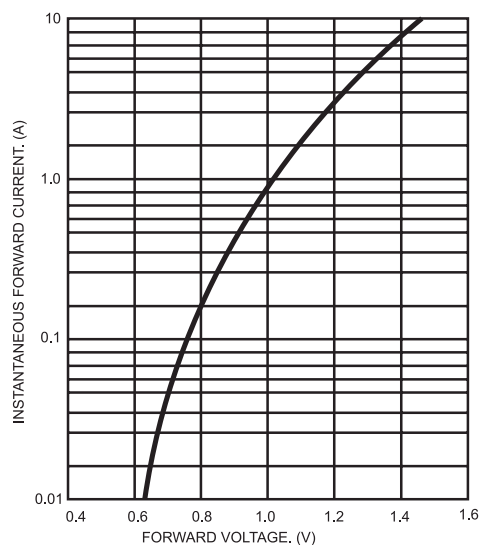


FIG.4- TYPICAL FORWARD CHARACTERISTICS

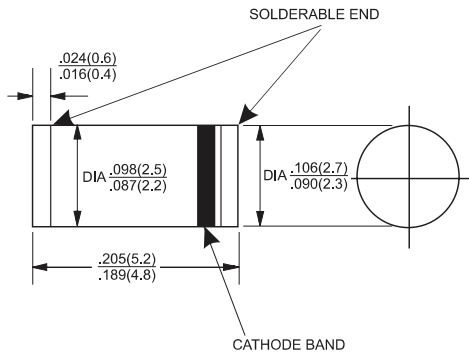


LL4000G Series

Power Diodes - Standard Recovery



MELF



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
MELF Power Diodes	LL4001G
	LL4002G
	LL4004G
	LL4007G

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.