

LL4000G Series



Power Diodes - Standard Recovery



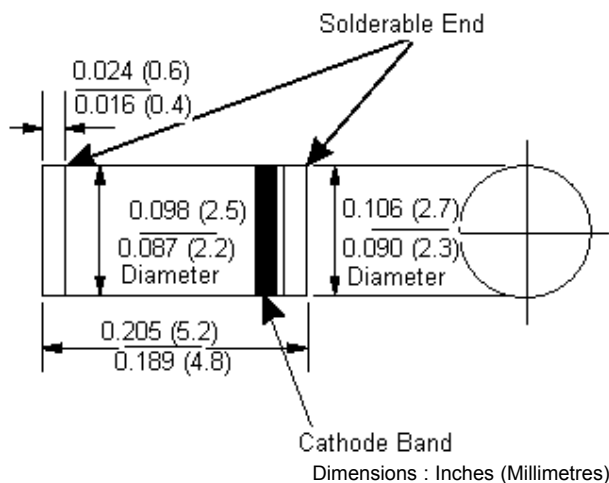
Features:

- 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.

MELF



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
Maximum Recurrent Peak Reverse Voltage	50	100	400	1000	V
Maximum RMS Voltage	35	70	280	700	
Maximum DC Blocking Voltage	50	100	400	1000	
Maximum Average Forward Rectified Current at $T_A = 75^\circ\text{C}$	1.0				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	30				
Maximum Instantaneous Forward Voltage at 1.0A	1.1				V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	5 100				μA
Typical Junction Capacitance (Note 1)	15				pF
Typical Thermal Resistance $R_{\theta\text{JC}}$ (Note 2)	50				$^\circ\text{C/W}$
Operating and Storage Temperature Range T_J, T_{STG}	-65 to +150				$^\circ\text{C}$



Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0V dc.
2. Thermal resistance from junction to ambient.

Ratings and Characteristic Curves

Figure 1 Maximum Non-Repetitive Forward Surge Current

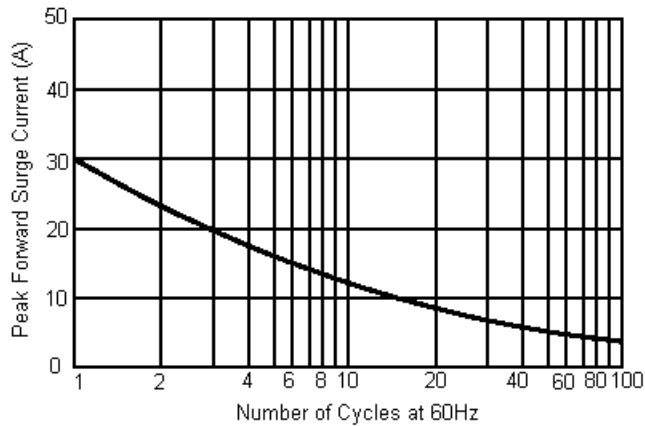


Figure 2 Maximum Forward Current Derating Curve

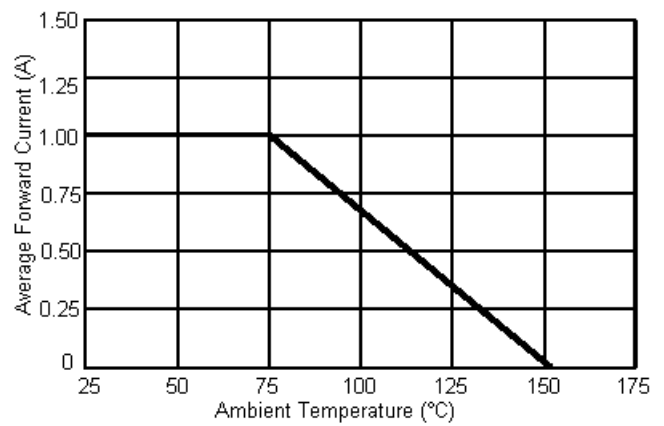


Figure 3 Typical Junction Capacitance

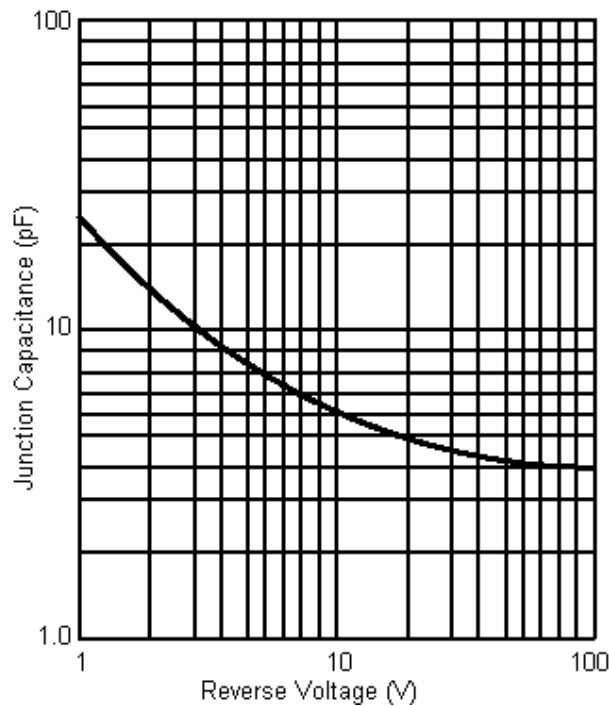
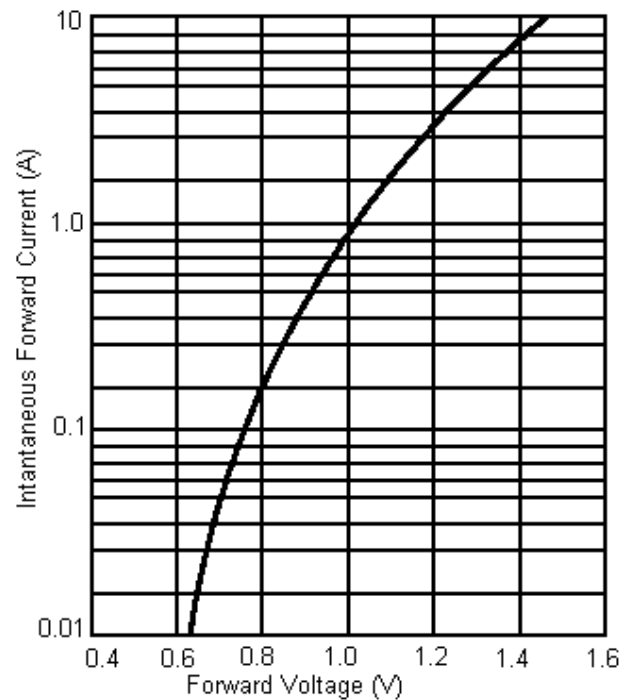


Figure 4 Typical Forward Characteristics



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Part Number Table

Package	Part Number
MELF	LL4001G
	LL4002G
	LL4004G
	LL4007G



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Notes:

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