LL 4001...LL 4007

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

Voltage Range – 50 to 1000 Volts Current – 1.0 Ampere

Features

- Low cost
- Glass passivated device
- · Ideal for surface mounted applications
- · Low leakage current

Mechanical data

- Case: molded plastic
- Mounting position: any

LL-41



MELF

Dimensions in mm

Absolute Maximum Ratings and Electrical characteristics ($T_a = 25^{\circ}C$)

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

	Symbols	LL4001	LL4002	LL4003	LL4004	LL4005	LL4006	LL4007	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 at $T_A = 75$ °C	I _(AV)	1.0							А
Peak forward surge current									
8.3ms single half sine-wave superimposed	I _{FSM} 30							А	
on rated load (JEDEC method)									
Maximum forward voltage at 1A	V _F	1.1							V
Maximum full load reverse current Full cycle average	I _{R(AV)}	30							μA
Maximum DC reverse current $T_A = 25 ^{\circ}C$		5 50							μΑ
at rated DC blocking voltage $T_A = 125 ^{\circ}C$	I _R								
Typical junction capacitance (Note 1)	CJ	15							pF
Maximum thermal resistance	$R_{\theta JL}(Note2)$	20							°C/W
	$R_{\theta JA}$ (Note3)	50							
Operating and storage temperature range	T_J, T_S	-65 to + 150							°C

Notes: (1) Measured at 1MHz and applied reverse voltage of 4 volts D.C

- (2) Thermal resistance from junction to terminal 6.0mm³ copper pads to each terminal
- (3) Thermal resistance junction to terminal 6.0mm³ copper pads to each terminal



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