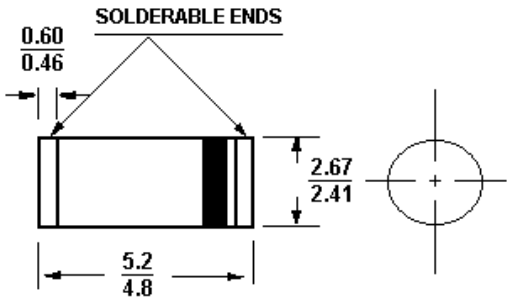
LL 4001...LL 4007

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

Voltage Range – 50 to 1000 Volts

Current – 1.0 Ampere

LL-41



MELF

Dimensions in mm

Features

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

Mechanical data

- Case: molded plastic
- Mounting position: any

Absolute Maximum Ratings a nd Electrical characteristics ($T_a = 25^oC$)

Ratings at 25^0C 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 $T_A = 75^oC$	$I_{(AV)}$	1.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							A
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 $T_A = 25^oC$ at rated DC blocking voltage $T_A = 125^oC$	I_R	5 50							μA
Typical junction capacitance (Note 1)	C_J	15							pF
Maximum thermal resistance	$R_{\theta JL}$(Note2) $R_{\theta JA}$(Note3)	20 50							$^oC/W$
Operating and storage temperature range	T_J, T_S	-65 to + 150							^oC

Notes: (1) Measured at 1MHz and applied reverse voltage of 4 volts D.C
(2) Thermal resistance from junction to terminal 6.0mm^3 copper pads to each terminal
(3) Thermal resistance junction to terminal 6.0mm^3 copper pads to each terminal

®

РАДИОТЕХ

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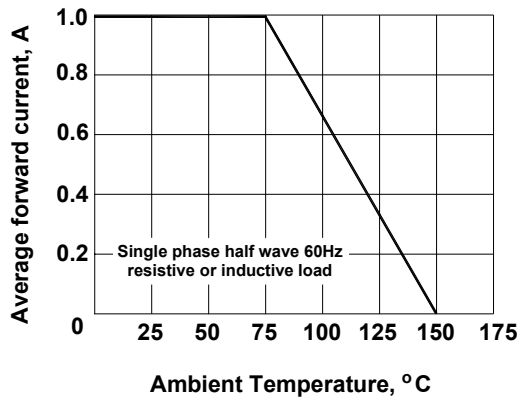
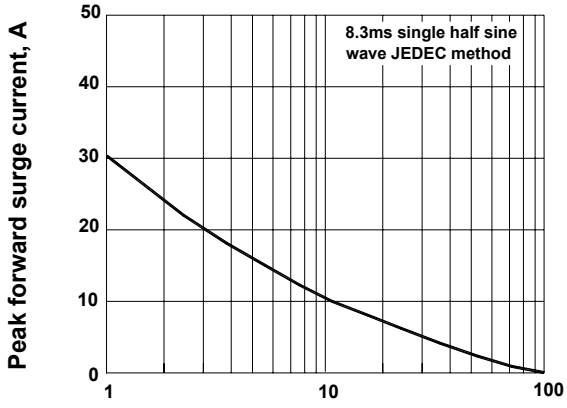
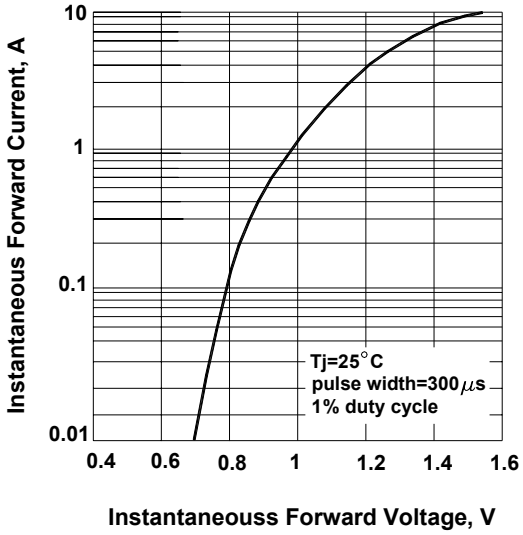
Typical forward current derating curve



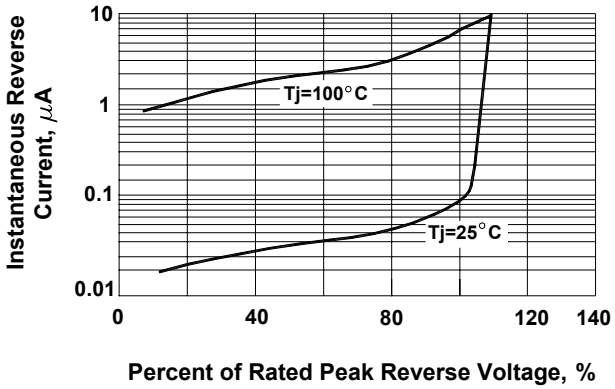
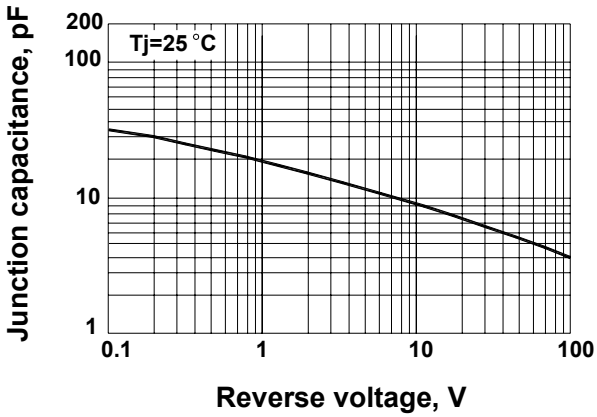
Maximum non-repetitive forward surge current



Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



Typical junction capacitance