

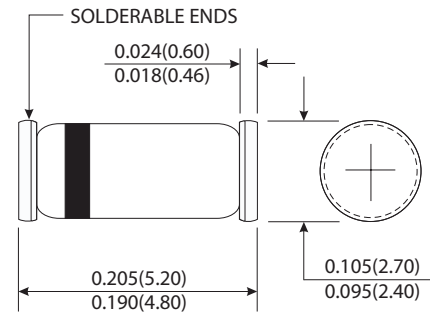
Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Glass passivated junction
- High temperature soldering guaranteed: 250 °C/10 seconds, at terminals

Mechanical Data

- Case : JEDEC MELF(DO-41) molded plastic body
- Terminals : Lead solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.0041 ounce, 0.116 gram

MELF (DO-41)



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

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

	Symbols	LL 4001	LL 4002	LL 4003	LL 4004	LL 4005	LL 4006	LL 4007	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length at TA=75 °C	I(AV)	1.0							Amp
Peak forward surge current 8.3ms half sine wave superimposed on rated load (JEDEC method)	IFSM	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.1							Volts
Maximum reverse current at rated voltage	TA=25 °C	5.0							μA
	TA=125 °C	50.0							
Typical thermal resistance (Note 2) (Note 3)	R θ JA	75.0							°C/W
	R θ JL	30.0							
Typical junction capacitance (Note 1)	CJ	15.0							pF
Maximum DC blocking voltage temperature	TA	+150							°C
Operating and storage temperature range	TJ TSTG	-65 to +150							°C

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from junction to ambient, 0.24 × 0.24"(6.0 × 6.0mm) copper pads to each terminals
- (3) Thermal resistance from junction to terminals, 0.24 × 0.24"(6.0 × 6.0mm) copper pads to each terminals

RATINGS AND CHARACTERISTIC CURVES LL4001 THRU LL4007

FIG.1-FORWARD CURRENT DERATING CURVE

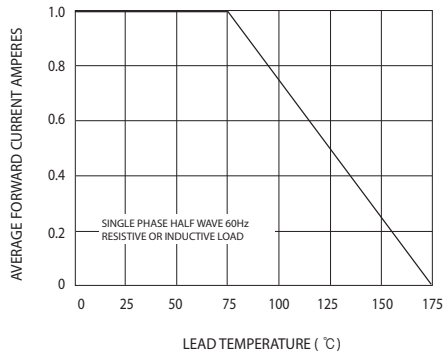


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

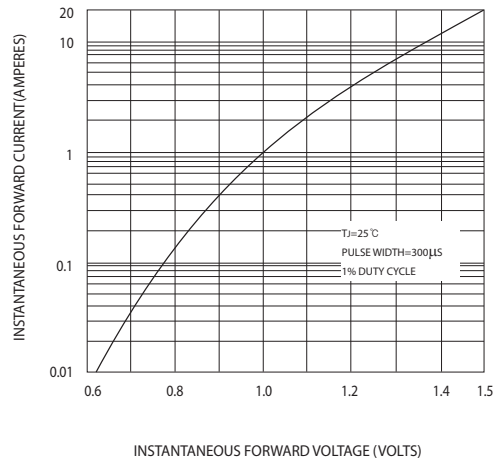


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

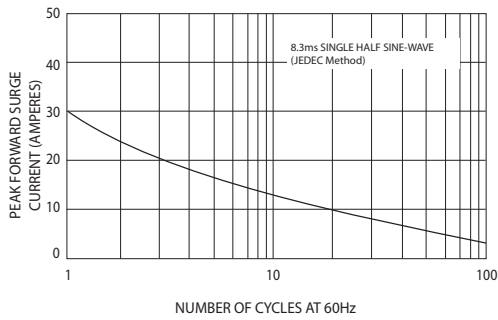


FIG.4-TYPICAL REVERSE CHARACTERISTICS

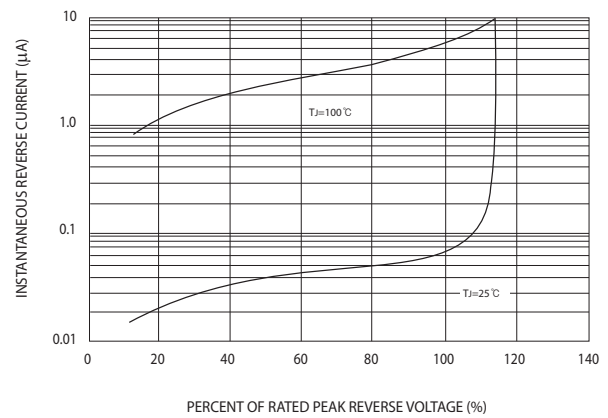


FIG.5-TYPICAL JUNCTION CAPACITANCE

