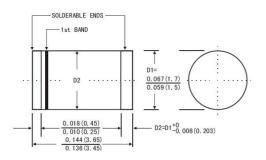


LM4001 THRU LM4007

SURFACE MOUNT RECTIFIERS

REVERSE VOLTAGE: 50 - 1000 V CURRENT: 1.0 A

MiniMELF (DO-213AA)



Dimensions in millimeters

FEATURES

The plastic package carries Underwrites Laboratory Flammability classification 94V-0 For surface mounted application

MECHANICAL DATA

Case: MiniMELF (DO-213AA), molded plastic body

Terminals: Lead solderable per MIL-STD-750,

method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capactive load, derate current by 20%.

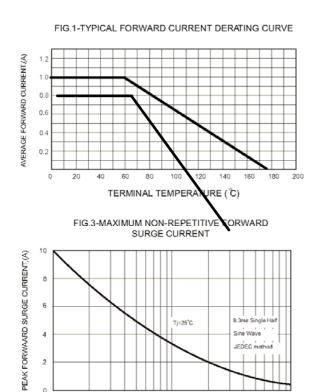
MDD Catalog Number		LM 4001	LM 4002	LM 4003	LM 4004	LM 4005	LM 4006	LM 4007	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forword rectified current T _A =75	I _(AV)	1.0						А	
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	25							А
Maximum forward voltage at 1.0A	V_{F}	1.1						V	
Maximum DC reverse current $@T_A=25$ at rated DC blockjing voltage $@T_A=125$	I _R	5.0 50						μА	
Typical junction capacitance (NOTE 1)	C_{j}	15							pF
Typical thermal resistance (NOTE 2)	$R_{j\theta L}$	75							/W
Typical thermal resistance (NOTE 3)	$R_{j\theta A}$	30							/W
Operating temperature range	T _j	- 65 + 175							
Storage temperature range	T_{STG}	- 65 + 175							

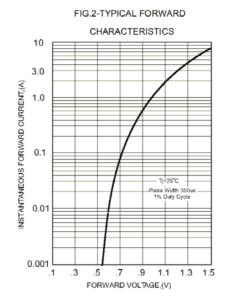
NOTES:1. Measured at 1.0MHz and applied average voltage of 4.0V DC.

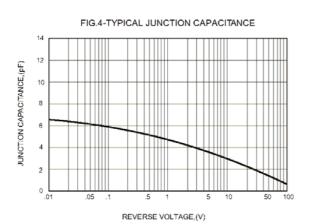
- 2. Thermal resistance junction to lead, 6.0 mm² coppeer pads to each terminal.
- 3. Thermal resistance junction to ambient, 6.0 mm ² coppeer pads to each terminal.



RATINGS AND CHARACTERISTIC CURVES LM4001 THRU LM4007





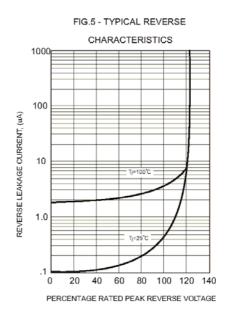


NUMBER OF CYCLES AT 60Hz

50

100

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The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

