



# LM4001 THRU LM4007

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

## SURFACE MOUNT RECTIFIER

### Features

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

DO-213AA



### Mechanical Data

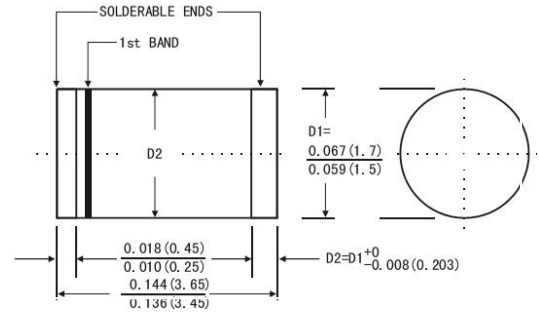
**Case :** JEDEC DO-213AA Molded plastic body

**Terminals :** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity :** Polarity symbol marking on body

**Mounting Position :** Any

**Weight :** 0.0023 ounce, 0.07 grams



Dimensions in 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 current derate by 20%.

Parameter	SYMBOLS	M1G	M2G	M3G	M4G	M5G	M6G	M7G	UNITS
		MDD M1	MDD M2	MDD M3	MDD M4	MDD M5	MDD M6	MDD M7	
Maximum repetitive peak reverse voltage	$V_{RMM}$	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 $T_L=110^\circ\text{C}$	$I_{(AV)}$	1.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30							A
Maximum instantaneous forward voltage at 1.0A	$V_F$	1.10							V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	$I_R$	5.0 50.0							$\mu\text{A}$
Typical junction capacitance (NOTE 1)	$C_J$	15.0							pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	65.0							$^\circ\text{C}/\text{W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150							$^\circ\text{C}$

- Note:** 1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.  
 2. Mounted on 10cm x 10cm x 1mm copper pad area  
 3. The typical data above is for reference only.



## Ratings And Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

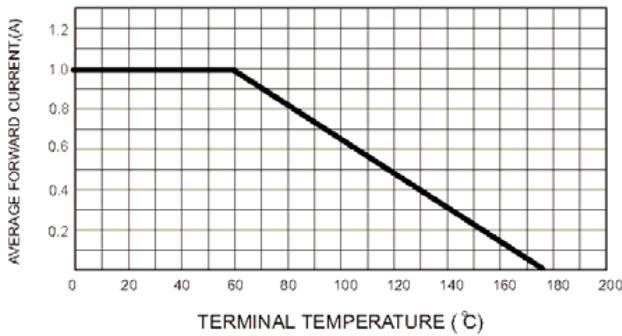


FIG.2-TYPICAL FORWARD CHARACTERISTICS

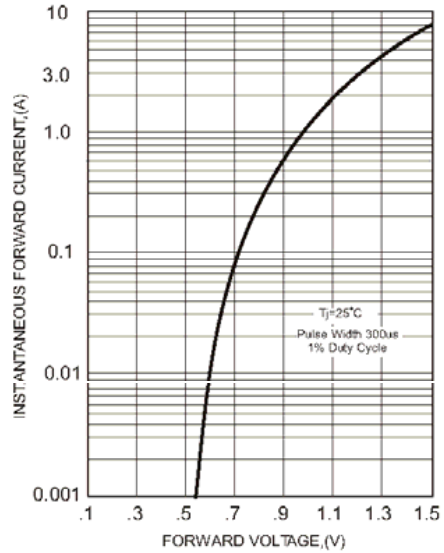


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

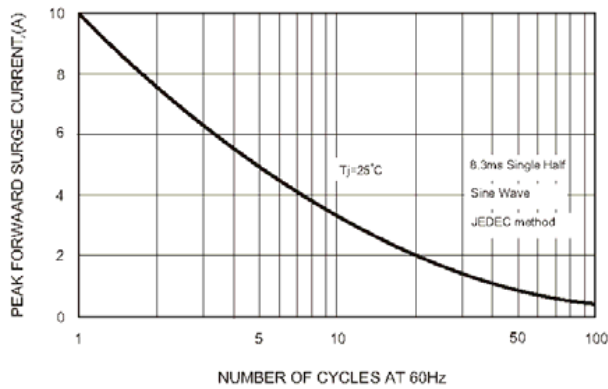


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

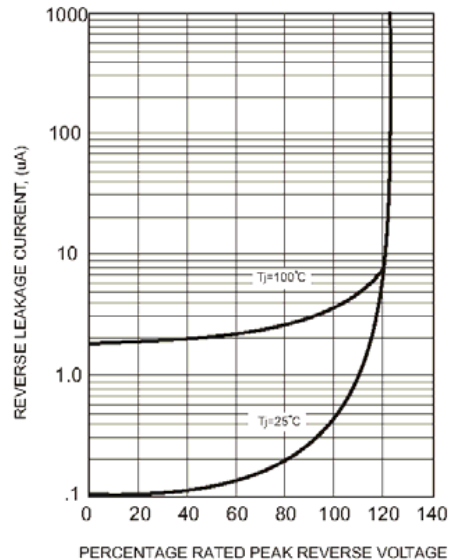
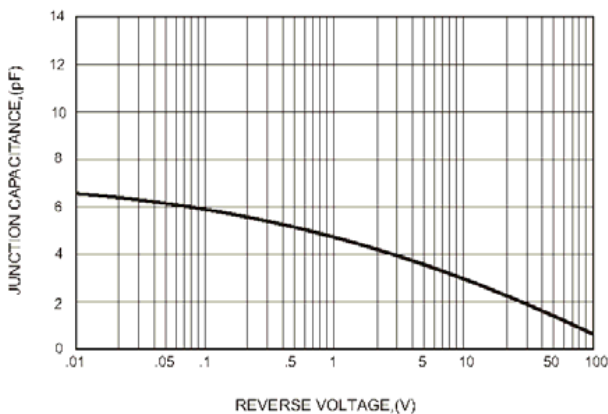


FIG.4-TYPICAL JUNCTION CAPACITANCE



The curve above is for reference only.

单击下面可查看定价，库存，交付和生命周期等信息

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