

## LM4001G THRU LM4007G

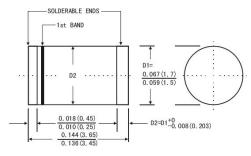
## SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIERS Reverse Voltage - 50 to 1000 V Forward Current - 1 A

## Features

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

#### **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



MiniMELF (DO-213AA) Plastic Package

### Maximum Ratings and Electrical characteristics

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

Parameter	Symbols	LM4001G	LM4002G	LM4003G	LM4004G	LM4005G	LM4006G	LM4007G	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_{A}{=}75^{\circ}\!C$	I <sub>(AV)</sub>	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	25						А	
Maximum Forward Voltage at 1 A	VF	1.1						V	
	I <sub>R</sub>	5 50						μA	
Typical Junction Capacitance <sup>1)</sup>	CJ	15						pF	
Typical Thermal Resistance 2)	$R_{ ext{ heta}JA}$	75						°C/W	
Typical Thermal Resistance 3)	$R_{ ext{ hetaJL}}$	30						°C/W	
Operating and Storage Temperature Range	$T_{j},T_{stg}$	- 65 to + 175						°C	

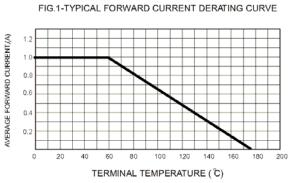
<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C

<sup>2)</sup> Thermal resistance from junction to ambient, 0.24 X 0.24" (6 X 6 mm) copper pads to each terminal

<sup>3)</sup> Thermal resistance from junction to terminal, 0.24 X 0.24" (6 X 6 mm) copper pads to each terminal

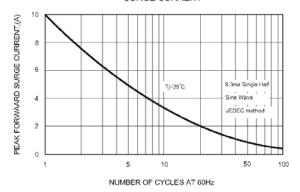


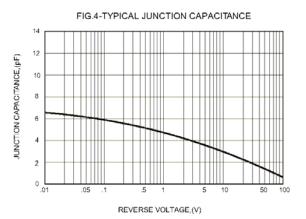
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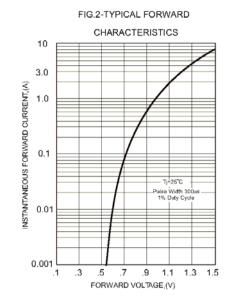




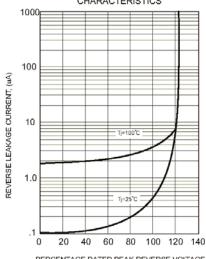












PERCENTAGE RATED PEAK REVERSE VOLTAGE