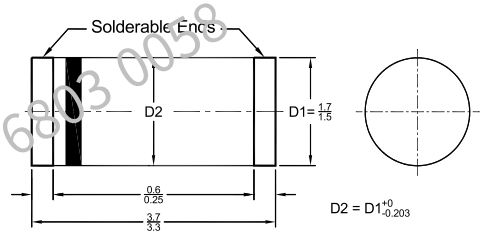
LM4001G THRU LM4007G

Formosa MS

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



MiniMELF (DO-213AA) Plastic Package
Dimensions in millimeters

深圳FMS Kinter 131 6803 0058

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 °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_{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 °C	$I_{F(AV)}$	1							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	25							A
Maximum Forward Voltage at 1 A	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage T_A = 25 °C / T_A = 125 °C	I_R	5 / 50							μA
Typical Junction Capacitance [1]	C_J	15							pF
Typical Thermal Resistance [2]	$R_{\theta JA}$	75							°C/W
Typical Thermal Resistance [3]	$R_{\theta JL}$	30							°C/W
Operating and Storage Temperature Range	T_j,T_{stg}	- 55 to + 150							°C

[1] Measured at 1 MHz and applied reverse voltage of 4 V
[2] Thermal resistance from junction to ambient 0.24 X 0.24" (6 X 6 mm) copper pads to each terminal
[3] Thermal resistance from junction to terminal 0.24 X 0.24" (6 X 6 mm) copper pads to each terminal

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

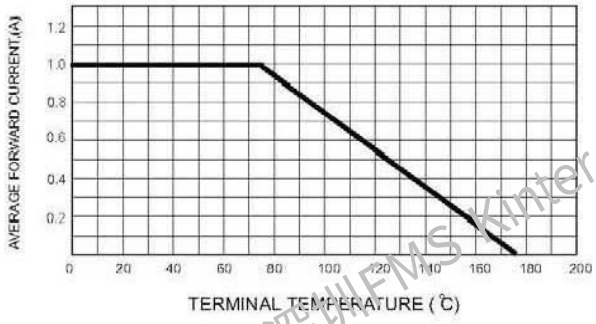


FIG.2-TYPICAL FORWARD CHARACTERISTICS

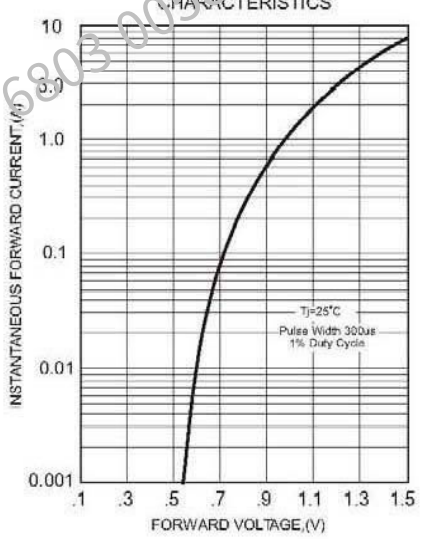


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

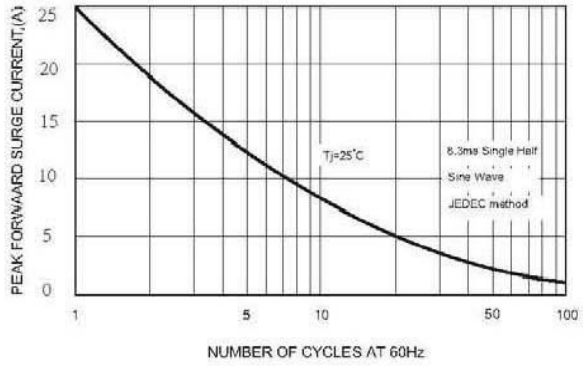


FIG.4-TYPICAL JUNCTION CAPACITANCE

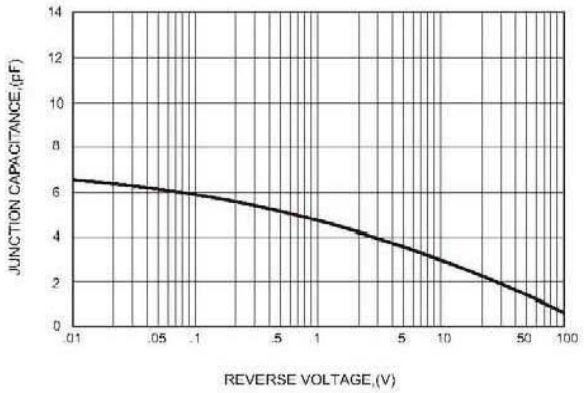
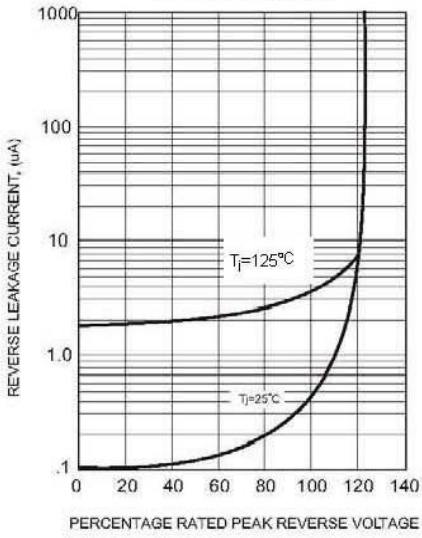


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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