

LL4001G THRU LL4007G



Surface Mount Glass Passivated Rectifier
 Reverse Voltage - 50 to 1000 Volts
 Forward Current -1.0Ampere

FEATURES



- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHs 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDEC Mini MELF(DO-213AA) molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.015 gram
- *Lead Free Finish/RoHS Compliant

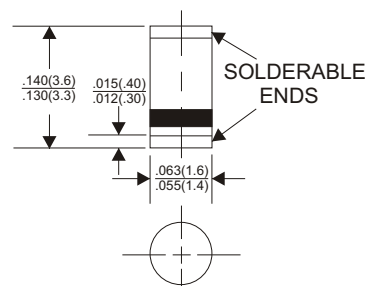
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.0 Ampere

DO-213AA



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 4001G	LL 4002G	LL 4003G	LL 4004G	LL 4005G	LL 4006G	LL 4007G	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) TA=75°C	IFSM	30.0							Amps
Maximum Instantaneous Forward Voltage at 1.0 A	VF	1.1							Volts
Maximum Reverse current at rated DC Blocking Voltage	IR	5.0							μA
		50.0							
Typical Thermal resistance (Note 2)	RθJL	30							°C/W
Typical Junction Capacitance(Note 1)	CJ	15							PF
Operating and Storage temperature Range	TJ TSTG	-65 to +150							°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES LL4001G THRU LL4007G

FIG.1-FORWARD CURRENT DERATING CURVE

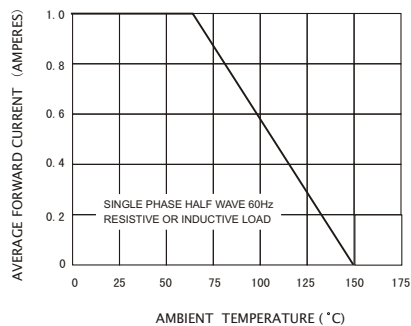


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

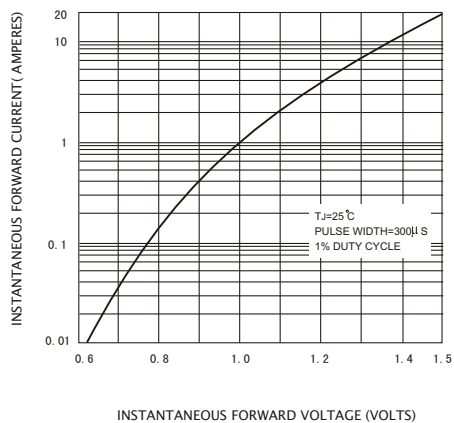


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

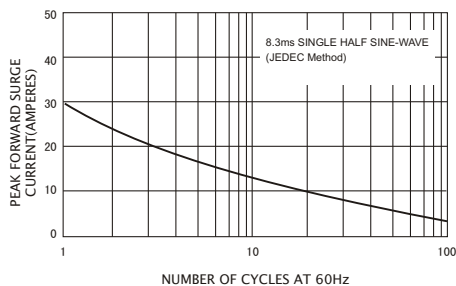


FIG.4-TYPICAL REVERSE CHARACTERISTICS

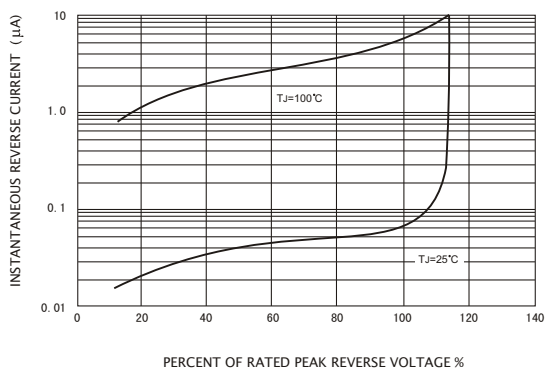


FIG.5-TYPICAL JUNCTION CAPACITANCE

