

Surface Mount Glass Plassivated Silicon Rectifiers

FEATURES

- Plastic package has carries underwriters
- Ideal for automated placement
- Surge overload rating to 30 Ampers peak
- Reliable low cost construction utilizing molded plastic technique results in in-expensive product
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition





MELF



MECHANICAL DATA

Case: MELF

Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (halogen-free) **Mounting position:** Any **Polarity:** Indicated by silver cathode band **Weight:** 0.12 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
	SYMBOL	LL40	.L40 LL40 LL40 LL40 LL40 L		LL40	LL40 LL40			
PARAMETER		01G	02G	03G	04G	05G	06G	07G	UNIT
Maximum repetitive 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	I _{F(AV)}				1				Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30			A				
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.1			V				
Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C	I _R	5 100		μA					
cal junction capacitance (Note 2) C _J 15			pF						
Typical thermal resistance	ce R _{eJC} 50		°C/W						
Operating junction temperature range	TJ	- 65 to +150			°C				
Storage temperature range	T _{STG} -		- 65 to +150				°C		

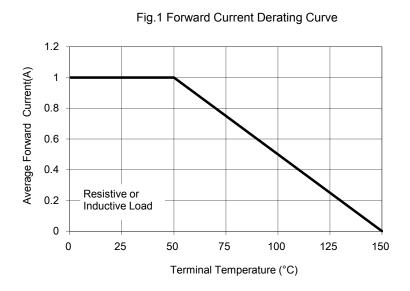
Note 1: Pulse test with PW=300µs, 1% duty cycle

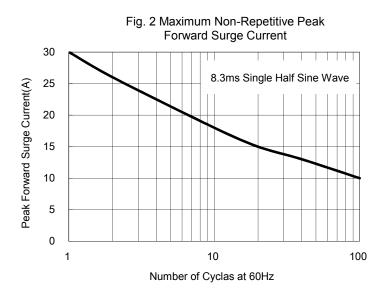
Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







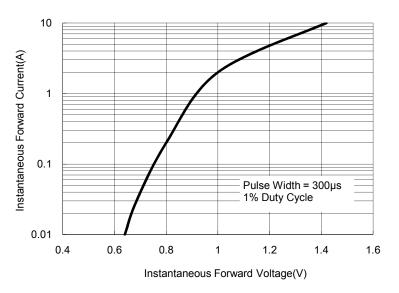
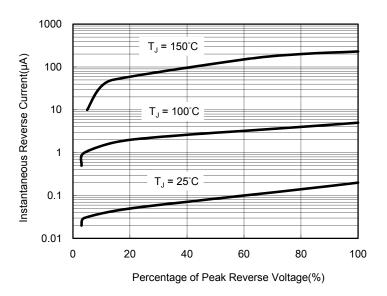


Fig. 4 Typical Reverse Characteristics



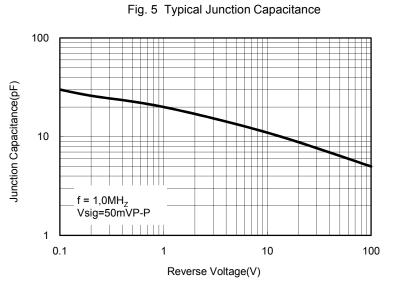
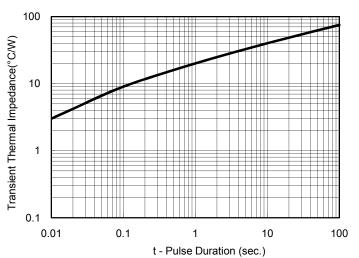


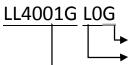
Fig. 6 Typical Transient Thermal Impedance



LL4001G ~ LL4007G Taiwan Semiconductor



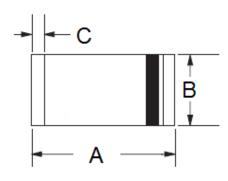
ORDER INFORMATION (EXAMPLE)



Green compound code Packing code Part no.

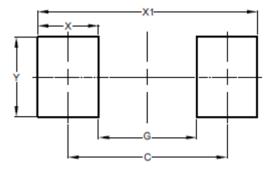
PACKAGE OUTLINE DIMENSIONS

MELF



DIM	Unit	(mm)	Unit (inch)			
DIM. Min		Мах	Min	Мах		
А	4.80	5.50	0.189	0.217		
В	2.25	2.67	0.089	0.105		
С	0.30	0.60	0.012	0.024		

SUGGEST PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)		
	Тур.	Тур.		
С	4.80	0.189		
G	3.30	0.130		
Х	1.50	0.059		
X1	6.30	0.248		
Y	2.70	0.106		



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