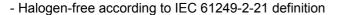
- Ideal for automated placement
- Surge overload rating to 30 Ampers peak
- Reliable low cost construction utilizing molded plastic technique results in in-expensive product
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC







MELF

MECHANICAL DATA

Case: MELF

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

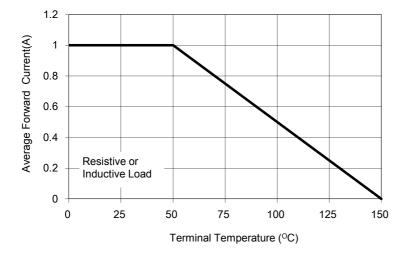
Mounting position: Any

Weight: 0.12 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
DADAMETED	CVMPOL	LL40	LL40	LL40	LL40	LL40	L
PARAMETER	SYMBOL	01G	02G	03G	04G	05G	(
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	
Maximum average forward rectified current	I _{F(AV)}				1		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30					
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.1					
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R				5 100		
Typical junction capacitance (Note 2)	Cj	15					
Typical thermal resistance	R _{eJC}	50					
Operating junction temperature range	TJ	- 65 to +150					
Storage temperature range	T _{STG}	- 65 to +150					

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.



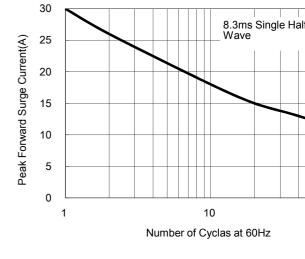


Fig. 3 Instantaneous Forward Characteristics

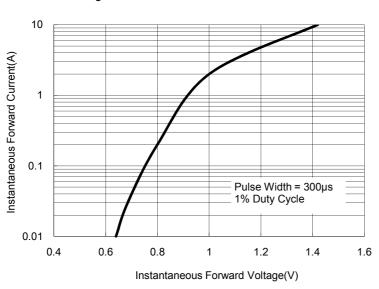


Fig. 4 Typical Reverse Characteristics

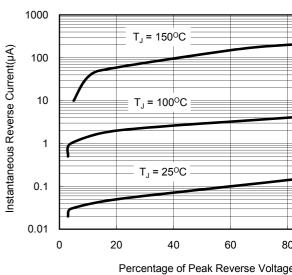


Fig. 5 Typical Junction Capacitance

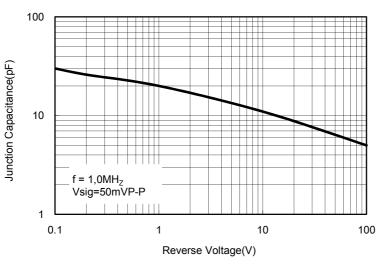
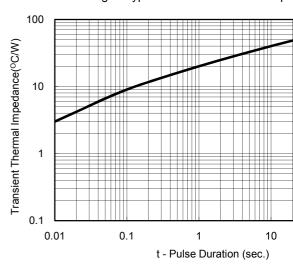


Fig. 6 Typical Transient Thermal Impe



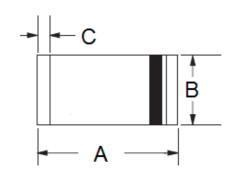
LL400xG (Note 1)	(Note 2)	LO	G	MELF	5k
---------------------	----------	----	---	------	----

Note 1: "x" defines voltage from 50V (LL4001G) to 1000V (LL4007G)

Note 2: Indicator of manufacturing site for manufacture special control, if empty means no special control requirement

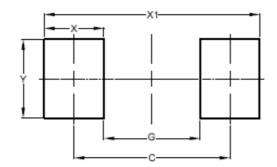
EXAMPLE				
PREFERRED P/N	PART NO.	MANUFACTURE CODE	PACKING CODE	GREEN COMPOUND CODE
LL4007G L0	LL4007G		L0	
LL4007G-J0 L0G	LL4007G	J0	L0	G

PACKAGE OUTLINE DIMENSIONS MELF



Unit (mm)		Unit (inch)		
DIM.	Min	Max	Min	Max
Α	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)		
DIIVI.	Тур.	Тур.		
С	4.80	0.189		
G	3.30	0.130		
Х	1.50	0.059		
X1	6.30	0.248		
Υ	2.70	0.106		

Notice Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its tassumes no responsibility or liability for any errors inaccuracies. Information contained herein is intended to provide a product description only. No license, express or implied any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditionsale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warrant; relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular merchantability, or infringement of any patent, copyright, or other intellectual property right. The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or seling these products for use in such applications do so at their own risk and agree to findemnify TSC for any damages resulting from such improper use or sale.