# CL-L233-HC13N1-C-02



### features



- 13W white high power, high efficacy LED
- 120° viewing angle
- Colour temperature 5,000K
- 150mm flying leads as standard, custom lengths available on request

### specifications

absolute maximum ratings							
parameter	symbol	rating value	unit				
power dissipation	Pd	17.7	W				
forward current	lF	840	mA				
forward pulse current	I <sub>FP</sub>	1,200	mA				
reverse voltage	V <sub>R</sub>	30	V				
operating temperature	T <sub>OP</sub>	-30 ~ +85	°C				
storage temperature	T <sub>ST</sub>	-40 ~ +100	°C				
junction temperature	Tj	120	°C				

electro-optical characteristics								
parameter	symbol	condition	min.	typ.	max.	unit		
forward voltage	٧ <sub>F</sub>	I <sub>F</sub> =720mA	17.5	18.6	21.0	V		
reverse current	I <sub>R</sub>	V <sub>R</sub> =15V	-	-	100	μΑ		
thermal resistance	R <sub>j-c</sub>	junction-case	-	2.4	-	°C/W		
luminous flux	Øv	I <sub>F</sub> =720mA	-	890	-	lm		
high general colour	Ra	I <sub>F</sub> =720mA	90	-	-	-		

### to order

to order please contact us on: t: +44 (0)1229 582 430 f: +44 (0)1229 580 012 e: sales@marl.co.uk w: www.optosource.com

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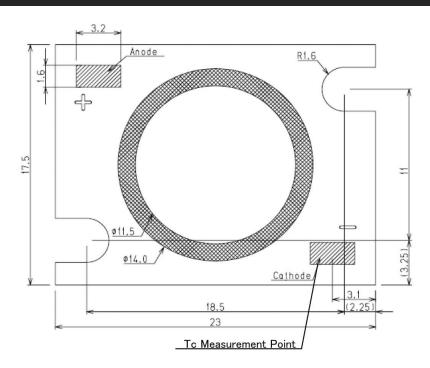


citizen electronics

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### technical data



Please note this product comes complete with 150mm flying leads (not shown in diagram).; Longer lengths are available on request.

#### precautions

- 1. Avoid the application of any stress to the lens portion
- 2. Avoid any contact by a sharp metal nail or other materials with the lens portion
- 3. This product should be secured firmly by fastening an M3 screw on both sides of the product. Be careful not to apply any stress to the product during the clamping operation as the connection status could vary depending on materials of outer heat sink please check thoroughly
- 4. A heat radiating grease should be applied to the whole rear surface so that this product can dissipate heat as a whole, this product could be bent during the clamping operation if heat grease in sheet form is used, thus we recommend the use of heat grease in paste form
- 5. Please take measures to prevent any static electricity being produced such as the wearing of a wristband or anti static gloves when handling this product

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