

LED Product Specifications

Product Name: 3 watts 730nm Red LED;

Version No.: 01

Product Description:

- 3 Watts high power LED
- Colloid Color: Water clear
- Emission Color: Red
- Viewing Angle:140°

Dice Material: InGaAlN



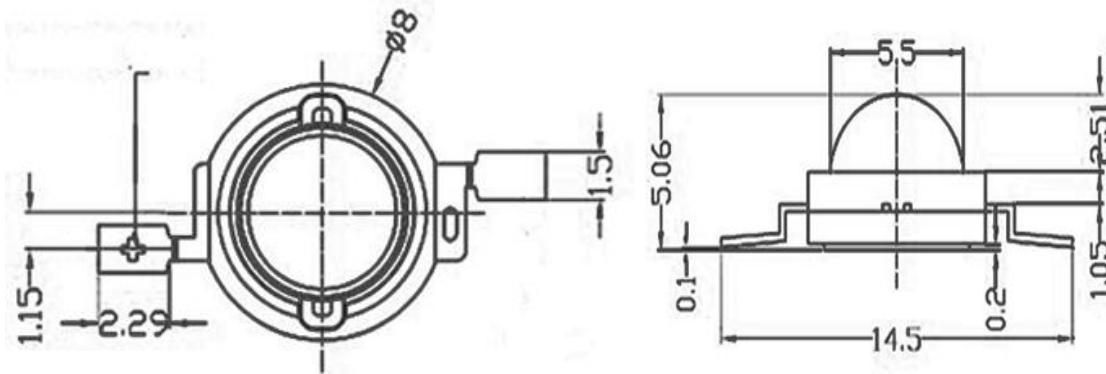
Dongguan Hongke Lighting Co.,LTD

Tel:86-769-28682546

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Outline Drawing



Notes:

1. All dimensions area in mm tolerance is $\pm 0.25\text{mm}$ unless otherwise noted.
2. An epoxy meniscus may extend about 1.2mm down the leads.
3. Burr around bottom of epoxy may be 0.5mm max.

Add:No.3 Gongye Street, Baihao Industrial District, Houjie Town, Dongguan City, Guangdong Province, China 523957 2

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Absolute Maximum Ratings (Ta = 25℃)

Items	Symbol	Maximum	Units
DC Forward Current	I_F	300	mA
Peak pulse current	I_{Pulse}	500	mA
Reverse Voltage	V_R	10	V
Power consumption	P_D	3	W
Operation Temperature	T_{opr}	-20~+75	℃
Storage Temperature	T_{stg}	-30~+80	℃
Lead Soldering Temperature	T_{sol} (3mm from the base of the body)	Max 260℃ for 5 sec Max.	

* Pulse width $\leq 0.1\text{msec}$ duty $\leq 1/10$

Product Optical Properties (Ta = 25℃)

Item	Symbol	Conditions	Min	Average	Max	Units
Forward Voltage	V_F	$I_F = 300\text{mA}$	4.0	----	4.4	V
Reverse current	I_R	$V_R = 10\text{V}$	---	10	---	μA
Color Temperature	CCT	$I_F = 300\text{mA}$	----	----	---	K
Peak Wavelength	λ_p	$I_F = 300\text{mA}$	730	---	735	nm
Luminous Intensity	I_v	$I_F = 300\text{mA}$	30	---	40	lm
50% power Angle	$2\theta^{1/2}_{H-H}$	$I_F = 300\text{mA}$	---	145	---	deg
	$2\theta^{1/2}_{V-V}$	$I_F = 300\text{mA}$		---	---	deg

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Important Notes:

- 1) All ranks will be included per delivery; rank ratio will be determined by Hongke.
- 2) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 3) Tolerance of measurement of VF is ± 0.05 V.
- 4) Color Coordinates Measurement allowance is ± 0.015 .
- 5) For reliability test conditions and data, Please refer to "Reliability Test" section on page 6.
- 6) As we are making continuous efforts to improve the performance of LED, Specifications are subject to change without notice.