

Product Type: BLD-HP010UV1-E45

Version No.: 01

### Product Description:

- 10W high power led
- Colloid Color: Transparent
- Emission Color: Purple
- Viewing Angle: 140°

Dice Material: InGaN

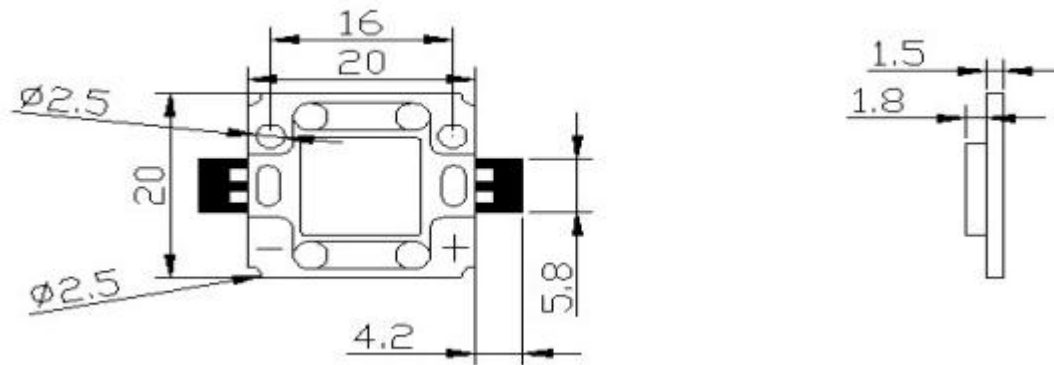


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## Outline Drawing



## Notes:

1. All dimensions area in mm tolerance is  $\pm 0.25$ 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.

### Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Maximum	Units
DC Forward Current	$I_F$	500	mA
Peak forward current	$I_{FP}$	600	mA
Reverse Voltage	$V_R$	45	V
Power consumption	$P_D$	10	W
Operation Temperature	$T_{opr}$	-20~+75	°C
Storage Temperature	$T_{stg}$	-30~+80	°C
Lead Soldering Temperature	$T_{sol}$	Max 260°C for 5 sec Max. (3mm from the base of the body )	

\* Pulse width ≤ 0.1msec    duty ≤ 1/10

### Product Optical Properties (Ta = 25°C)

Item	Symbol	Conditions	Min	Avera	Max	Units
Forward Voltage	$V_F$	$I_F = 500\text{mA}$	27	---	30.6	V
Reverse current	$I_R$	$V_R = 45\text{V}$	---	---	90	μA
Color Temperature	CCT	$I_F = 500\text{mA}$	---		---	K
Peak Wavelength	$\lambda_p$	$I_F = 500\text{mA}$	430	---	435	nm
Luminous Intensity	$I_v$	$I_F = 500\text{mA}$	500		800	lm
50% power Angle	$2\theta_{1/2}^{\text{H-H}}$	$I_F = 500\text{mA}$	---	140	---	deg
	$2\theta_{1/2}\text{V-V}$	$I_F = 500\text{mA}$		---	---	deg

### Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
		Purple	
DC Forward Current(mA)	If	500	mA
Peak Pulse Current(mA)	If	600	mA
Reverse Voltage	VR	45	V
LED Junction Temperature	Tj	125	°C
Operation Temperature	Topr	-40--100	°C
Storage Temperature	Tstg	-40--100	°C
Soldening Temperature	Tsol	260	°C
ESD Sensitivity	Vb	4000	V

### 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  $\pm 0.05$  V.
- 4) Color Coordinates Measurement allowance is  $\pm 0.015$ .
- 5) For reliability test conditions and data, Please refer to “Reliability Test” section on page 7.
- 6) For how to use BEELED product safely, Please refer to “Application Notes” section on page 9 and 10.
- 7) Packaging methods are available to be chosen, please refer to “Packaging” section on page 11 and 12.
- 8) As we are making continuous efforts to improve the performance of LED, Specifications are subject to change without notice.