

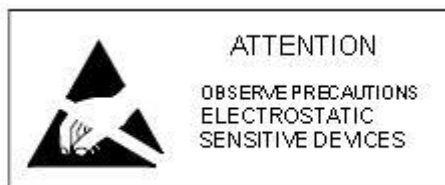
Product Name: BLD-HP020UV5-E45

Version No.: 01

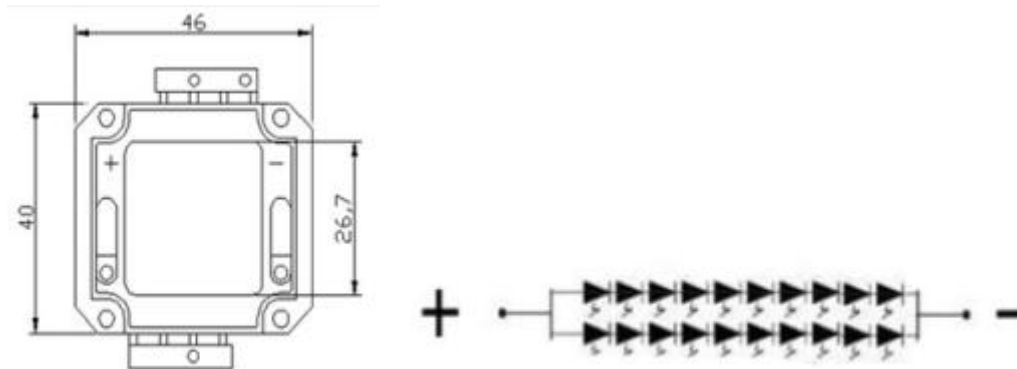
Product Description:

- 20 Watts high power LED
- Colloid Color: Water clear
- Emission Color: Purple
- Viewing Angle:140°

Dice Material: InGaAlN



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.

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Items	Symbol	Maximum	Units
DC Forward Current	I_F	600	mA
Peak pulse current	I_{Pulse}	700	mA
Reverse Voltage	V_R	50	V
Power consumption	P_D	20	W
Operation Temperature	T_{opr}	$-20 \sim +75$	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-30 \sim +80$	$^\circ\text{C}$
Lead Soldering Temperature	T_{sol} (3mm from the base of the body)	Max 260°C for 5 sec Max. duty $\leq 1/10$	

Product Optical Properties (Ta = 25℃)

Item	Symbol	Conditions	Min	Average	Max	Units
Forward Voltage	V_F	$I_F = 600\text{mA}$	32	--	36	V
Reverse current	I_R	$V_R = 50\text{V}$	---	80	---	μA
Radiation power:	R	$I_F = 600\text{mA}$	630	----	870	mW
Peak Wavelength	λ_p	$I_F = 600\text{mA}$	365	---	370	nm
Luminous Intensity	I_v	$I_F = 600\text{mA}$	1000	---	1200	lm
50% power Angle	$2\theta^{1/2}_{\text{H-H}}$	$I_F = 600\text{mA}$	---	145	---	deg
	$2\theta^{1/2}_{\text{V-V}}$	$I_F = 600\text{mA}$		---	---	deg

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 $\pm 0.05\text{ V}$.
- 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.