



BEELED -

Product Type: BLD-HP010UV3-E45

Version No.: 01

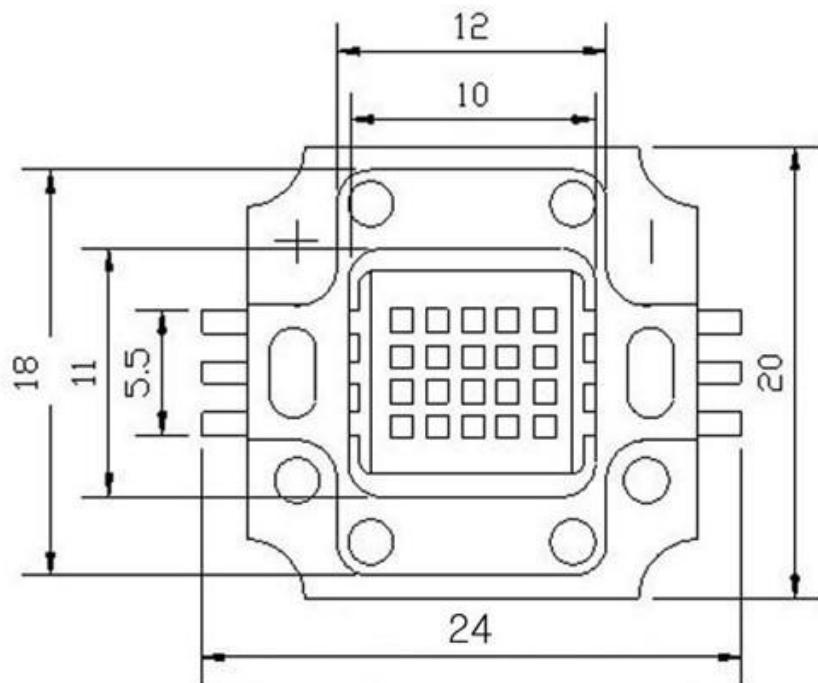
Product Description:

- 10w high power LED
- Colloid Color: Water clear
- Emission Color: UV
- Viewing Angle:140°

Dice Material: InGaAlN



Outline Drawing



Notes:

1. All dimensions are 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.



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Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Maximum	Units
DC Forward Current	I _F	500	mA
Peak pulse current	I _{Pulse}	1000	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	Average	Max	Units
Forward Voltage	V _F	I _F =350mA	27	28.5	30	V
Reverse current	I _R	V _R =45v	---	10	---	μA
Color Temperature	CCT	I _F =350mA	----	----	---	K
Peak Wavelength	λ _p	I _F =350mA	380	---	385	nm
Radiometric Power	I _v	I _F =350mA	1200		1800	mW
Luminous Intensity	I _v	I _F =350mA	180	---	270	lm
Thermal Resistance Junction Board	RQ _{J-P}	I _F =350mA		7.0		°C/W
50% power Angle	2θ ^{1/2} H-H	I _F =350mA	---	140	---	deg
	2θ ^{1/2} V-V	I _F =350mA		---	---	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 ±15%.



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- 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 5.
- 6) As we are making continuous efforts to improve the performance of LED, Specifications are subject to change without notice.



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Reliability Test Standards

Type	Test item	Applicable standard	Test condition	Duration	Sampling number	Accept criteria
environment test	Temperature cycles	JEITA ED-4701 100 105	-40°C ~ 25°C ~ 100°C ~ 25°C 30min 5min 30min 5min	100cycles	100	0
	Thermal shock	MIL-STD-202G	-40°C ~ 100°C 15min 15min	300cycles	100	0
	High humidity heat cycles	JEITA ED-4701 200 203	30°C ~ 65°C RH=90% 24hrs/1 cycle	50cycles	100	0
	High temperature storage	JEITA ED-4701 200 201	T _a =100°C	1000hrs	100	0
	Low temperature storage	JEITA ED-4701 200 202	T _a =-40°C	1000hrs	100	0
	High temperature & high humidity storage	JEITA ED-4701 100 103	T _a =60°C RH=90%	1000hrs	100	0
life test	Life test		T _a =25°C If=500mA(R,G,Y)/350mA(W,B)	1000hrs	100	0
	High temperature & high humidity life test		T _a =60°C RH=90% If=500mA(R,G,Y)/350mA(W,B)	1000hrs	100	0
	Low temperature life test		T _a =-30°C If=500mA(R,G,Y)/350mA(W,B)	1000hrs	100	0
destructive experiment	Resistance to soldering heat	JEITA ED-4701 300 302	T _{sol} =260°C ± 5°C, 10sec 3mm from the base of the body	one time	20	0
	Solderability	JEITA ED-4701 300 303	T _{sol} =235°C ± 5°C, 5sec using flux	one time	20	0
ESD	Electrostatic discharge test	AEC Q101-001	Human body model 1000V forward and reverse	each 3 times	10	0
physical experiment	Vibration	JEITA ED-4701 400 403	20G 20-2000HZ 4mins X,Y,Z 3directions	each 4cycles	10	0
	Drop	JEITA ED-4701 300 304	75CM	3 times	10	0