



СВЕТОДИОДЫ BEELED - ТЕХНИЧЕСКОЕ ОПИСАНИЕ

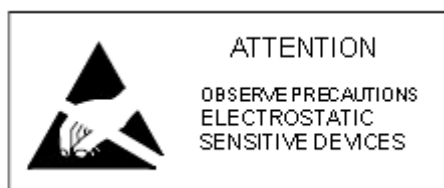
Product Type: BLD-HP005UV3-E45

Version No.: 01

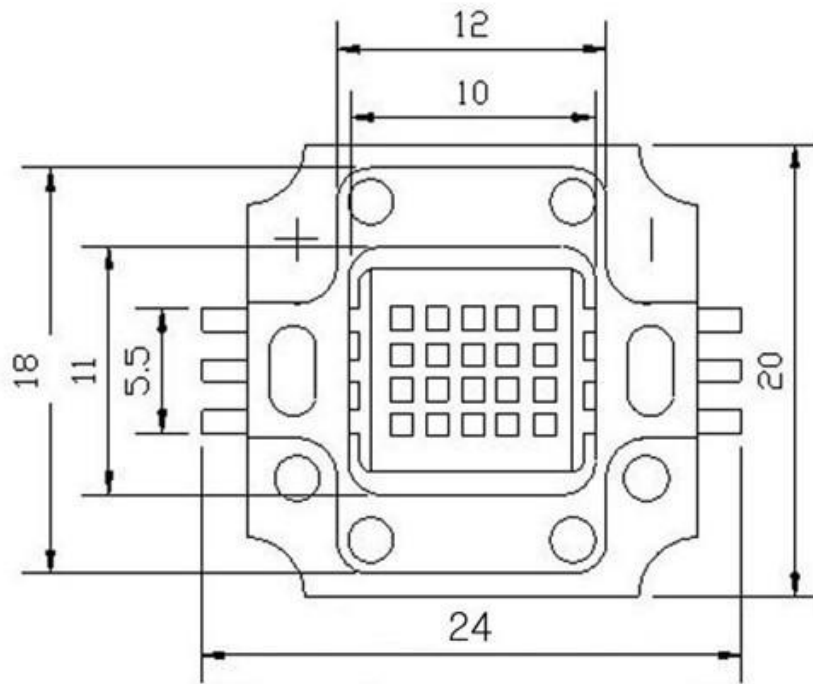
Product Description:

- 5w high power LED
- Colloid Color: Water clear
- Emission Color: UV
- Viewing Angle:140°

Dice Material: InGaAlN



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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 (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	20	V
Power consumption	P_D	5	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	$I_F = 350mA$	12	12.5	13	V
Reverse current	I_R	$V_R = 20V$	---	10	---	μA
Color Temperature	CCT	$I_F = 350mA$	----	----	---	K
Peak Wavelength	λ_p	$I_F = 350mA$	380	---	385	nm
Luminous Intensity	I_v	$I_F = 350mA$	80	---	120	lm
Radiant Power	I_v	$I_F = 350mA$	500	---	800	mW
Thermal Resistance Junction Board	R_{QJ-P}	$I_F = 350mA$		5.0		°C/W
50% power Angle	$2\theta^{1/2}H-H$	$I_F = 350mA$	---	140	---	deg
	$2\theta^{1/2}V-V$	$I_F = 350mA$		---	---	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.

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℃ ~ 25℃ ~ 100℃ ~ 25℃ 30min 5min 30min 5min	100cycles	100	0
	Thermal shock	MIL-STD-202G	-40℃ ~ 100℃ 15min 15min	300cycles	100	0
	High humidity heat cycles	JEITA ED-4701 200 203	30℃ ~ 65℃ RH=90% 24hrs/1 cycle	50cycles	100	0
	High temperature storage	JEITA ED-4701 200 201	T _a =100℃	1000hrs	100	0
	Low temperature storage	JEITA ED-4701 200 202	T _a =-40℃	1000hrs	100	0
	High temperature & high humidity storage	JEITA ED-4701 100 103	T _a =60℃ RH=90%	1000hrs	100	0
life test	Life test		T _a =25℃ If=500mA(R,G,Y)/350mA(W,B)	1000hrs	100	0
	High temperature & high humidity life test		T _a =60℃ RH=90% If=500mA(R,G,Y)/350mA(W,B)	1000hrs	100	0
	Low temperature life test		T _a =-30℃ 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℃±5℃,10sec 3mm from the base of the body	one time	20	0
	Solderability	JEITA ED-4701 300 303	T _{sol} =235℃±5℃,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