

BEELED

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Product Type: BLD-HP100UV5-E45

Version No.: 01

Product Description:

- 100W high power led
- Colloid Color: Transparent
- Emission Color: Purple
- Viewing Angle:140°

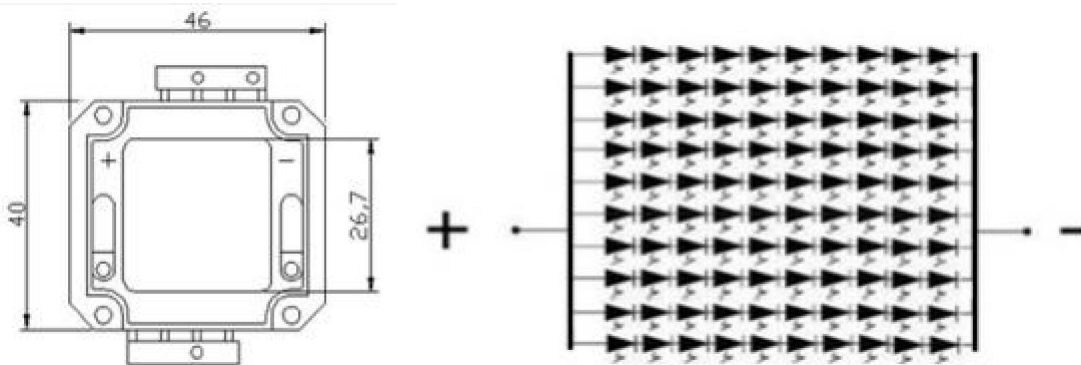
Dice Material: InGaN



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Outline Drawing



Notes:

1. All dimensions area in mm tolerance is $\pm 0.25\text{mm}$ 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	3500	mA
Peak forward current	I_{FP}	3500	mA
Reverse Voltage	V_R	50	V
Power consumption	P_D	100	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	$I_F = 3500\text{mA}$	32	---	36	V
Reverse current	I_R	$V_R = 50\text{V}$	---	---	100	μA
Peak Wavelength	λ_p	$I_F = 3500\text{mA}$	365	---	370	nm
Luminous Intensity	I_v	$I_F = 3500\text{mA}$	1500	---	3000	lm
50% power Angle	$2 \theta_{\frac{1}{2}}^{\theta}$ H-H	$I_F = 3500\text{mA}$	---	140	---	deg
	$2 \theta_{\frac{1}{2}V-V}$	$I_F = 3500\text{mA}$	---	---	---	deg



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Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
		Purple	
DC Forward Current(mA)	If	3500	mA
Peak Pulse Current(mA)	If	3500	mA
Reverse Voltage	VR	50	V
LED Junction Temperature	Tj	125	°C
Operation Temperature	Topr	-40--100	°C
Storage Temperature	Tstg	-40--100	°C
Soldering Temperature	Tsol	260	°C
ESD Sensitivity	Vb	4000	V