

### LED product specifications

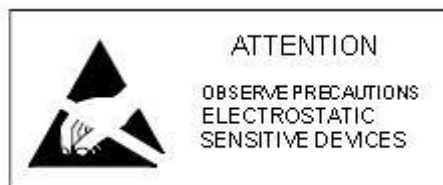
Product Type: 100 watts 700nm IR led

Item No.: BLD-HP100IR700-E42

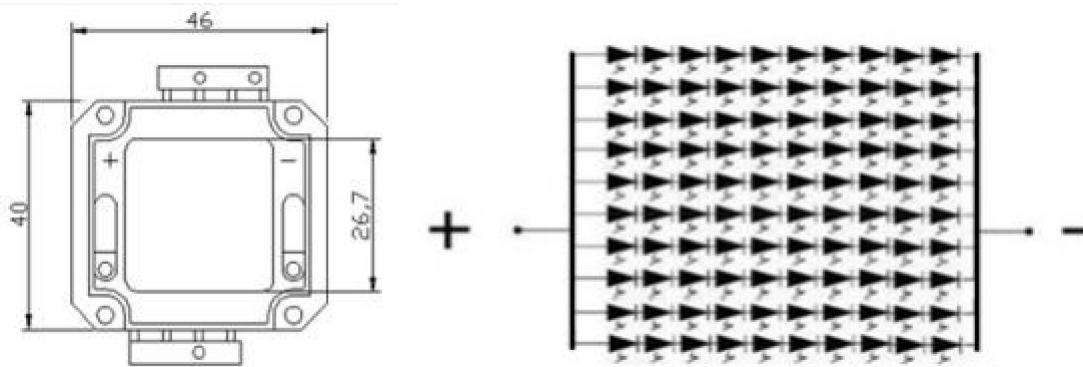
#### Product Description:

- 100 Watts high power LED
- Colloid Color: Water clear
- Emission Color: Red
- Viewing Angle: 140°
- Chip: 42mil Epileds;

Dice Material: InGaN



### Outline Drawing



### Notes:

1. All dimensions are 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	$I_F$	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  $\leq 0.1$ msec    duty  $\leq 1/10$

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

Item	Symbol	Conditions	Min	Avera	Max	Units
Forward Voltage	$V_F$	$I_F = 3500$ mA	19	---	20	V
Reverse current	$I_R$	$V_R = 50$ V	---	---	100	$\mu$ A
Color Temperature	CCT	$I_F = 3500$ mA	---	---	---	K
Peak Wavelength	$\lambda_p$	$I_F = 3500$ mA	700	---	710	nm
Luminous Intensity	$I_v$	$I_F = 3500$ mA	50	---	60	lm
50% power Angle	$2 \theta_{1/2}^{H-H}$	$I_F = 3500$ mA	---	140	---	deg
	$2 \theta_{1/2}^{V-V}$	$I_F = 3500$ mA	---	---	---	deg