



СВЕТОДИОДЫ BEELED – ТЕХНИЧЕСКОЕ ОПИСАНИЕ

Product Name: 50w 800nm IR led

Version No.: BLD-HP050IR800-E42

Product Description:

- 50 watt High Power LED
- Colloid Color: Transparent
- Emission Color: Red
- Viewing Angle: 120°

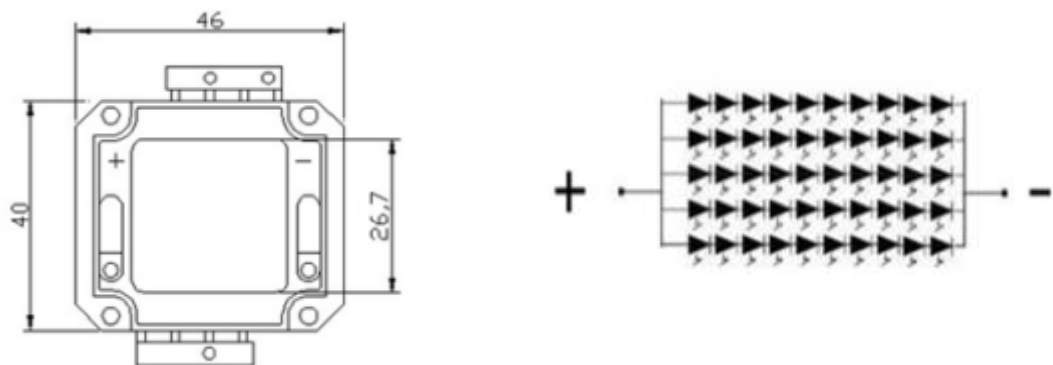
Dice Material: GaInN





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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	1500	mA
Peak forward current	I_{FP}	2000	mA
Reverse Voltage	V_R	50	V
Power consumption	P_D	50	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 $\leq 0.1\text{msec}$ duty $\leq 1/10$



СВЕТОДИОДЫ BEELED – ТЕХНИЧЕСКОЕ ОПИСАНИЕ

Product Optical Properties (Ta = 25°C)

Item	Symbol	Conditions	Min	Averag	Max	Units
Forward Voltage	V_F	$I_F = 1500\text{mA}$	15	e ----	16	V
	V_F	$I_F = 1500\text{mA}$	15	----	16	V
Reverse current	I_R	$V_R = 50\text{V}$	---	-----	50	μA
Peak Wavelength	λ_p	$I_F = 1500\text{mA}$	800	-----	805	nm
Chromaticity Coordinates	X	$I_F = 1500\text{mA}$	-----	-----	---	----
	Y	$I_F = 1500\text{mA}$	-----	-----	----	----
Luminous Flux	I_V	$I_F = 1500\text{mA}$	0.1	----	0.5	lm
50% power Angle	$2\theta^{1/2}\text{H-H}$	$I_F = 1500\text{mA}$	---	60	---	deg
	$2\theta^{1/2}\text{V-V}$	$I_F = 1500\text{mA}$	----	---	---	deg

Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
		Infrared	
DC Forward Current(mA)	If	1500	mA
Peak Pulse Current(mA)	If	2000	mA
Reverse Voltage	VR	50	V
LED Junction Temperature	Tj	125	°C
Operation Temperature	Topr	-20--65	°C
Storage Temperature	Tstg	-20--70	°C
Soldening Temperature	Tsol	260	°C
ESD Sensitivity	Vb	4000	V