

PRODUCT SPECIFICATION



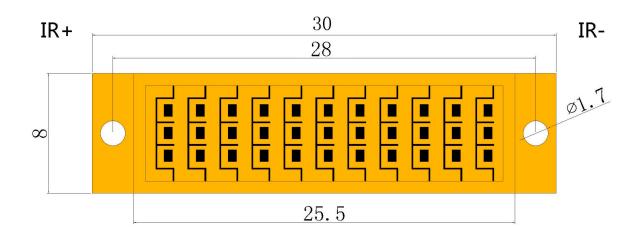
Part No. : JH-33IR14DG4748-TJB-LS940 High Power LED

Catalog

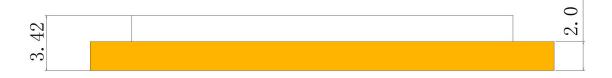
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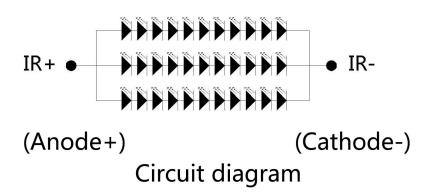
1.Dimensions



Top view



Side view



Notes:

- 1. All dimensions are in millimeters.
- 2. Tolerance is ±0.1mm unless otherwise noted.



2. Electro-optical Characteristics

		0 ""	Specifi	cation/R	ating	
Parameters	Symbol	mbol Conditions		Тур.	Max.	Unit
Optical Output Power	POP	Pulse 7.2A 50°C	59.4	66	-	W
Threshold Current	Ith	Pulse 50°C	300	900	1500	mA
Operating Current	lop	Pulse 50°C	-	2.4	-	А
Differential resistance	Rs	Pulse 7.2A 50°C	-	0.23	0.5	Ω
Operating Voltage	Vop	Pulse 7.2A 50°C	18.7	21.45	24.2	V
Slope Efficiency	ns	Pulse 7.2A 50°C	0.9	1	-	W/A
Power Conversion						
Effici ncy	PCE	Pulse 7.2A 50°C	40	44	-	%
Waveleng h	λpeak	Pulse 7.2A 50°C	932	940	948	nm
Spectral Width (RMS)	Δλ	Pulse 7.2A 50°C	-	-	2.5	nm
Be m Full Divergence						
(D86)	ф	Pulse 7.2A 50°C	18	21	24	0
Wavelength coefficient	dλ/dT	Pulse	-	0.07	-	nm/°C

Note: The testing condition is 0.3ms-pulse/1%-Duty.

3. Absolute Maximum Ratings

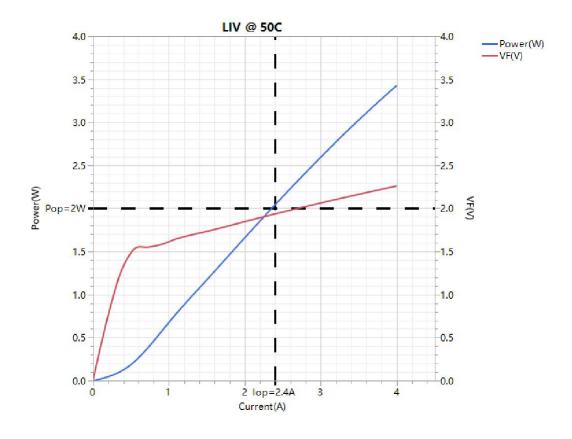
Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only. Functional operation of the device is not implied at these or any other conditions in excess of those given in the operational sections of the data sheet. Exposure to absolute maximum ratings for extended periods can adversely affect device reliability.

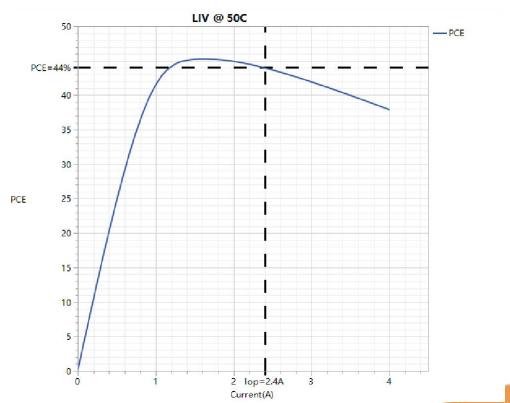
Parameter	Symbol	Min	Max	Unit
Operating humidity	Нор	0	85	%
Operating Temperature	T _{op}	-20	85	°C
Storage Temperature	T _{st}	-40	110	°C
Storage humidity	Hs	0	85	%



4. Electro-optic conversion curve

Typical Performance Curves at 25 °C







5.Cautions

1. Electrostatic Treatment

Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)



2. Heat Dissipation

- A. It is recommend to configure reasonable heat dissipation device for the product.
- B. The best working temperature range of the product is 40-60°. It is recommended to control the working temperature of the product within a reasonable range.

