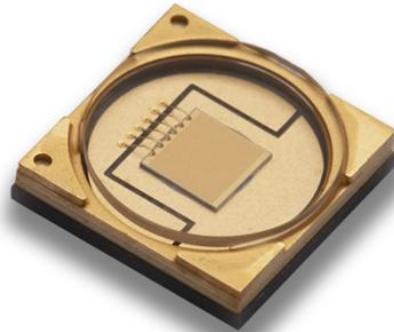


PRODUCT SPECIFICATION

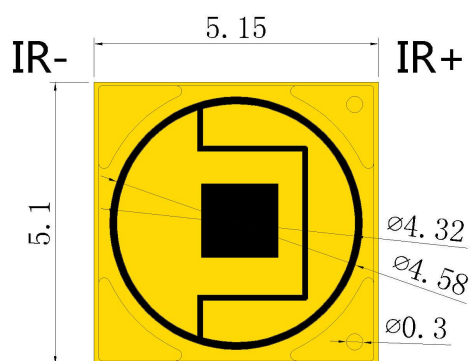


Part No. : JH-5050IR18DG70-T8A-JLS940
High Power LED

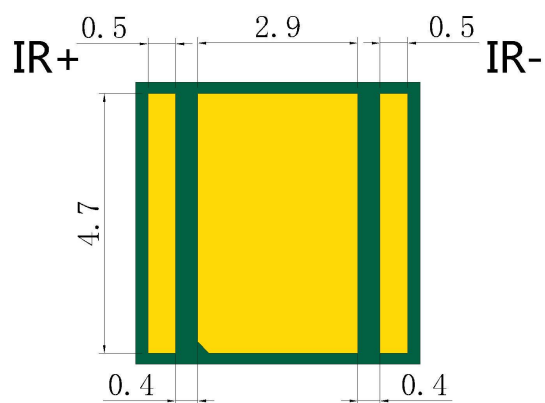
Catalog

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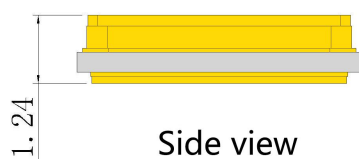
1. Dimensions



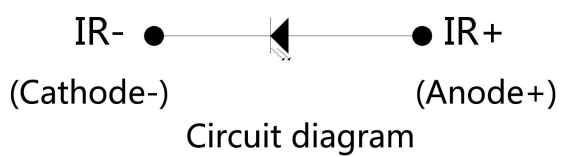
Top view



Bottom view



Side view



Notes:

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.1\text{mm}$ unless otherwise noted.

2. Electro-optical Characteristics

Parameters	Symbol	Conditions	Specification/Rating			Unit
			Min.	Typ.	Max.	
Optical Output Power	POP	Pulse 10A 50°C	7.2	8	-	W
Threshold Current	I _{th}	Pulse 50°C	800	1800	2800	mA
Operating Current	I _{op}	Pulse 50°C	-	10	-	A
Differential resistance	R _s	Pulse 10A 50°C	-	0.05	0.2	Ω
Operating Voltage	V _{op}	Pulse 10A 50°C	1.7	1.9	2.1	V
Slope Efficiency		Pulse 10A 50°C	0.9	1	-	W/A
Power Conversion Efficiency	PCE	Pulse 10A 50°C	40	43	-	%
Wavelength	λ _{peak}	Pulse 10A 50°C	932	940	948	nm
Spectral Width (RMS)	Δλ	Pulse 10A 50°C	-	-	2.5	nm
Beam Full Divergence (D86)	φ	Pulse 10A 50°C	18	21	24	°
Wavelength coefficient	dλ/dT	Pulse	-	0.07	-	nm/°C

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

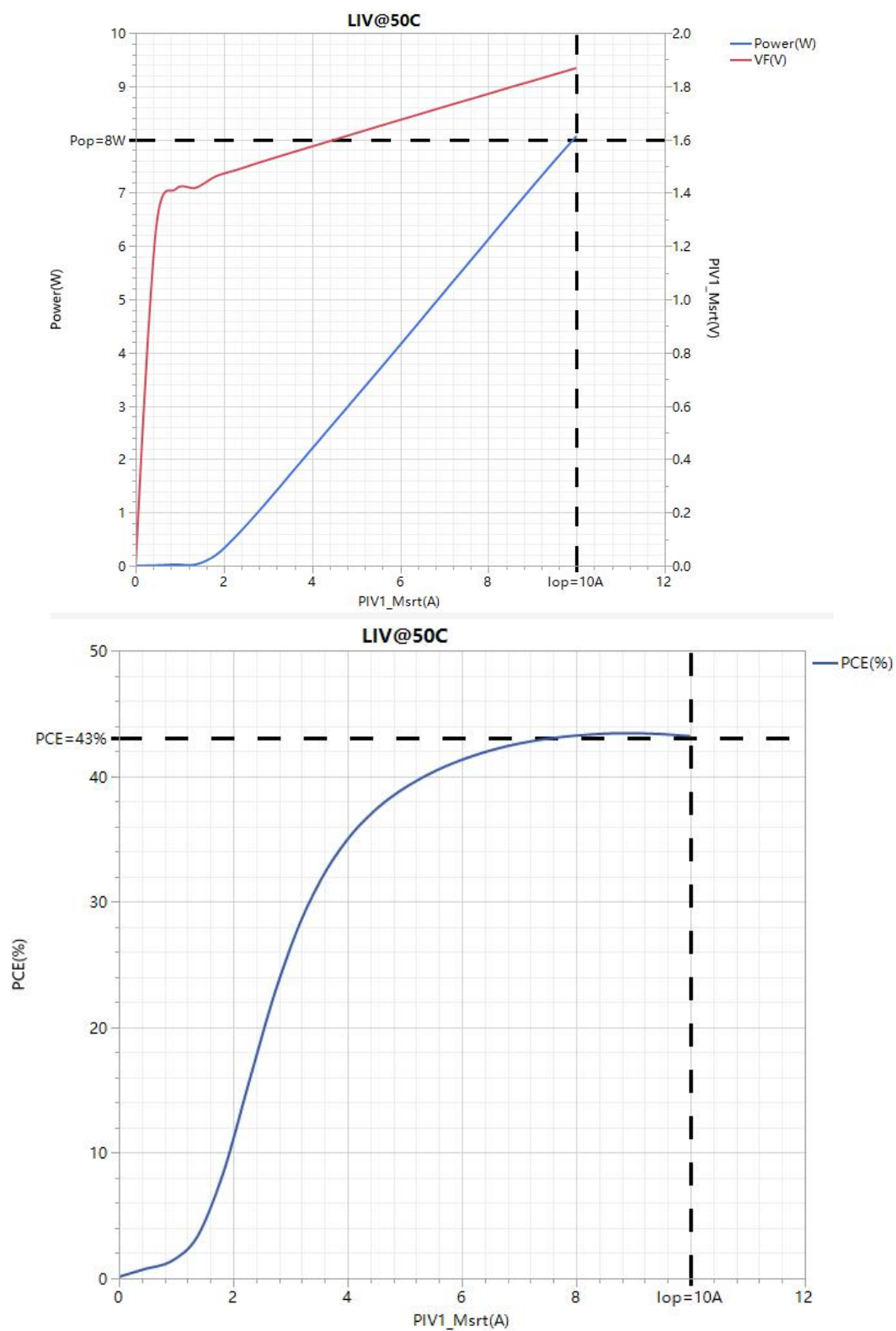
3. Absolute Maximum Ratings

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	H _{op}	0	85	%
Operating Temperature	T _{op}	-20	85	°C
Storage Temperature	T _{st}	-40	110	°C
Storage humidity	H _s	0	85	%

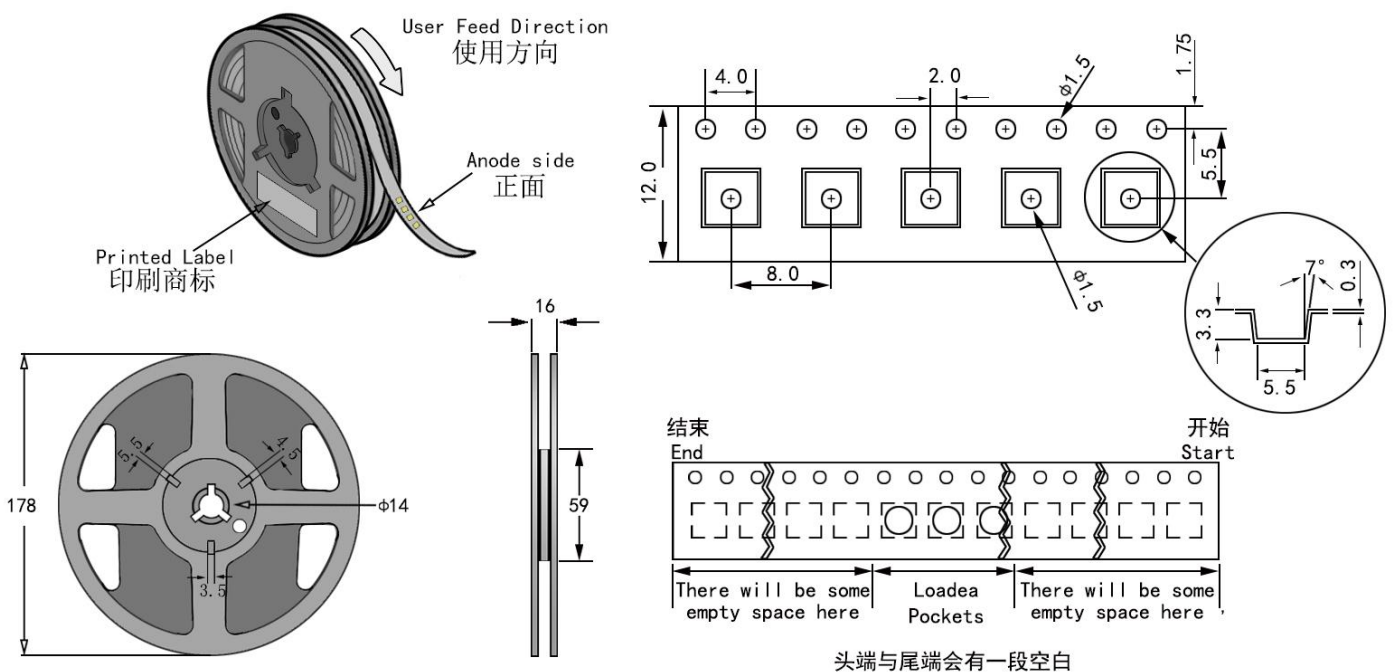
4. Electro-optic conversion curve

Typical Performance Curves at 25 °C



5. Tape & Reel Packing

1. Recommend unpacked LED beads be welded within one day, if not, please vacuumize again and store in an environment of 20-35°C and 30-60% humidity. If can't vacuumize, please store LED beads in moisture proof box, control at 25°C±3°C, humidity 50-60%. If unpacked above 1 week, bake at 60±5°C for 10-12 hours before weld.



Notes:

1. QTY: 1000pcs/Reel
2. Tolerance $\pm 0.2\text{mm}$.
3. Package: P/N

6. Cautions

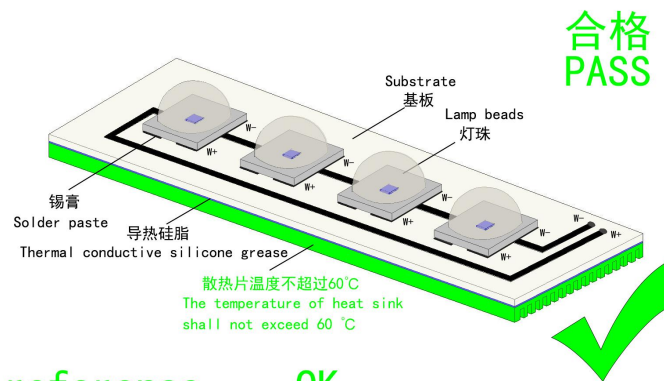
1. Electrostatic Treatment

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.



3. Installation Conditions

reference OK

- A、Do not exert any pressure on the LED area during the use of the led beads. If the machine is used to take materials, select a suction nozzle of reasonable size, such as below :

