

# PRODUCT SPECIFICATION

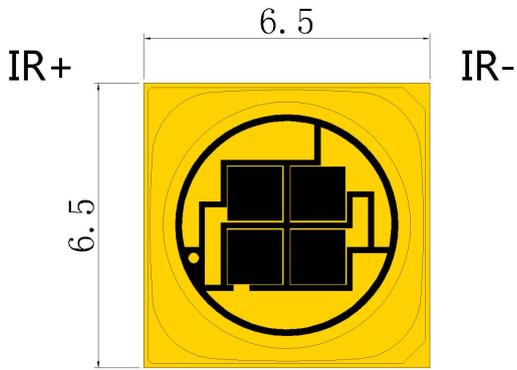


**Part No. : JH-6565IR3S40-T8A-LS850**  
**High Power LED**

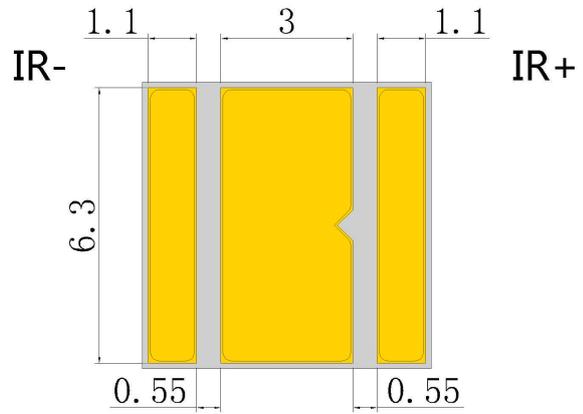
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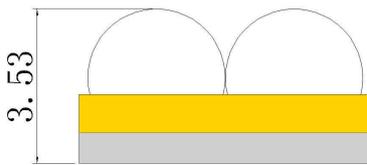
# 1. Dimensions



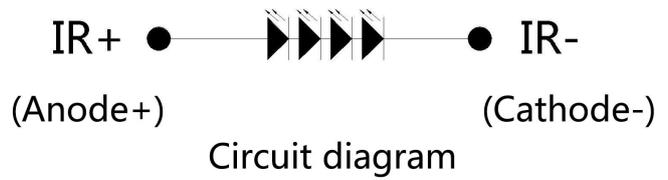
Top view



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.	
Threshold current	$I_{th}$	T=25 °C		0.7		A
Operating voltage	V <sub>1</sub>	T=25 °C, I <sub>op</sub> =1.0A		6.8		V
Operating voltage	V <sub>2</sub>	T=25 °C, I <sub>op</sub> =3.0A		4	8.8	V
Series resistance	R <sub>s</sub>	T=25 °C, I <sub>op</sub> =3.0A		0.2		Ω
Slope efficiency	$\eta$	T=25 °C, I <sub>op</sub> =3.0A		0.95		W/A
Output power	LOP1	T=25 °C, I <sub>op</sub> =1.0A		0.88		W
Output power	LOP2	T=25 °C, I <sub>op</sub> =3.0A	6.8	8.8		W
Beam divergence	$\theta_{D86}$	T=25 °C, I <sub>op</sub> =3.0A		22		deg.
Intensity Reverse current	IR	At-5V		0	-0.99	uA
Emission wavelength	$\lambda$	T=25-85 °C, I <sub>op</sub> =3A	840	850	860	nm
Wavelength shift	d $\lambda$ /dT			0.07		nm/°C
Conversion efficiency	PCE	T=25 °C		38		%

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

## 3. Absolute Maximum Ratings

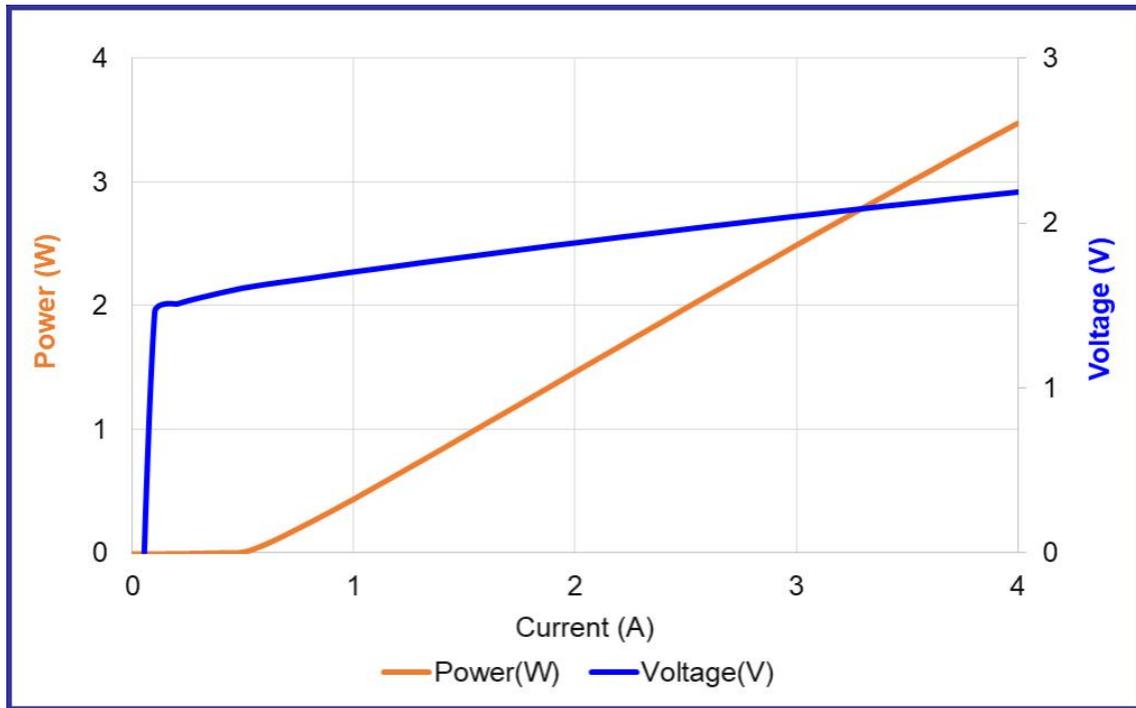
Stresses in excess of the absolute maximum ratings can cause permanent damage to the

Parameter	Symbol	Min	Max	Unit
Reverse Voltage	V <sub>r</sub>	-	5	V
Operating Temperature	T <sub>op</sub>	-	-20~85	°C
Storage Temperature	T <sub>st</sub>	-	-40 to 100	°C
Mounting Temperature (max. 10 sec)	T <sub>m</sub>	-	260	°C

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.

## 4.LIV Characteristics

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.

