

# PRODUCT SPECIFICATION



**Part No. : JH-120BRVW14S38-T7A-GZF405**  
**High Power LED**

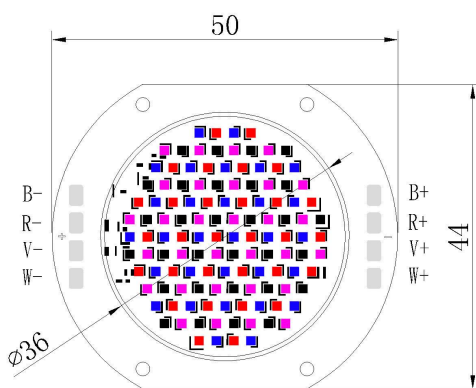
## Catalog

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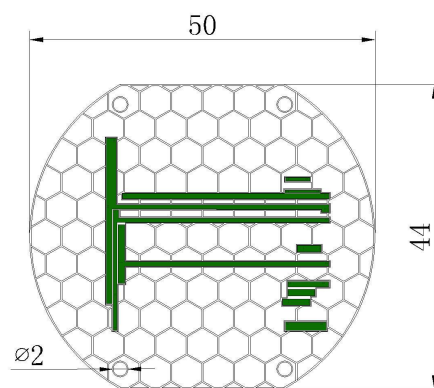
## 1.Product Features

- High Brightness BRVW LED
- Chip Material: InGaN AlGaInP
- Plane Package
- RoHS Compliant
- Viewing Angle 140 Degree

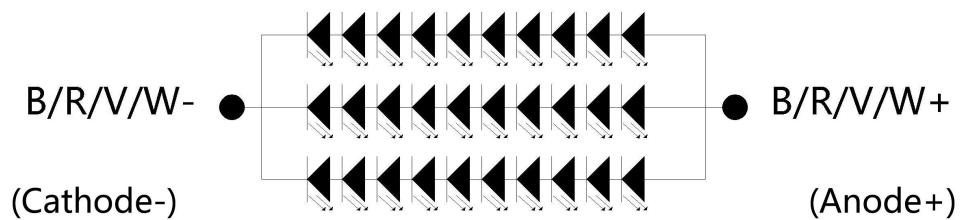
## 2.Dimensions



Top view



Bottom view



Circuit diagram

### Notes:

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

### 3. Absolute Maximum Rating @ Ta=25° C

| Parameter                                                    | Symbol | Maximum Rating  | Unit |
|--------------------------------------------------------------|--------|-----------------|------|
| Continuous Forward Current                                   | IF     | 1050            | mA   |
| Peak Forward Current<br>(1/10 Duty Cycle, 0.1ms Pulse Width) | IFp    | 1200            | mA   |
| Reverse Voltage                                              | VR     | 31              | V    |
| Power Dissipation                                            | PD     | 108             | W    |
| Electrostatic Discharge                                      | ESD    | 1000            | V    |
| Operating Temperature Range                                  | TOPR   | -25°C to +80°C  |      |
| Storage Temperature Range                                    | TSTG   | -35°C to +100°C |      |
| Lead Soldering Temperature                                   | TSOL   | 350°C           |      |

### 4. Optical Character @ Ta=25° C

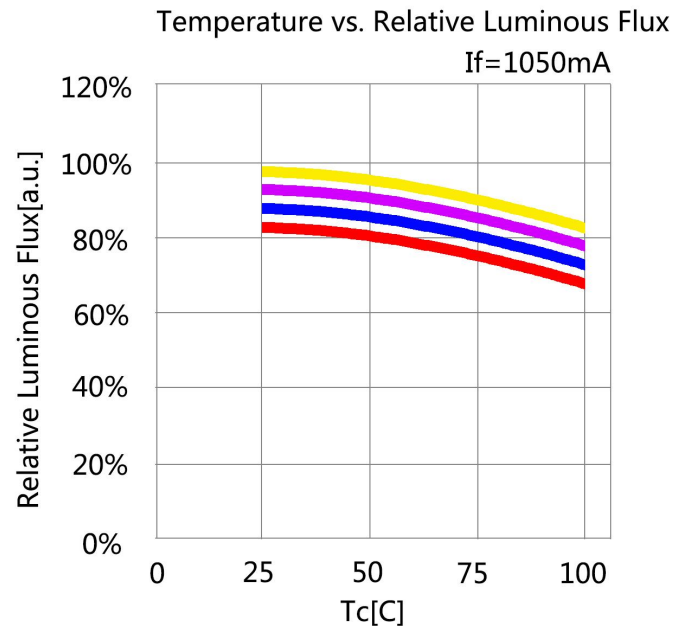
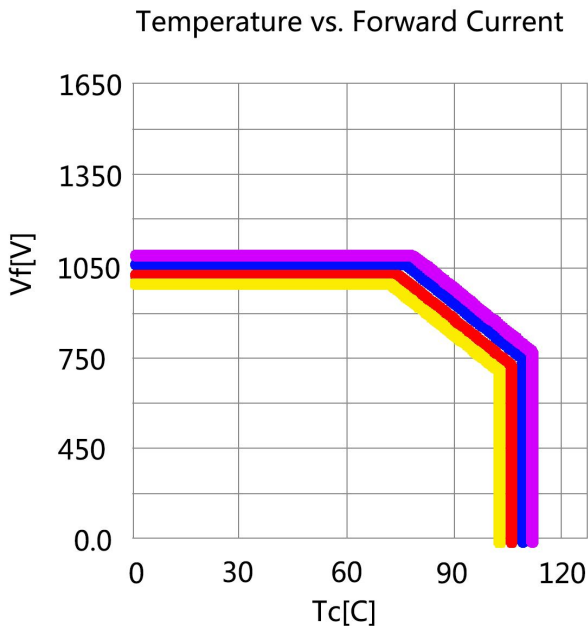
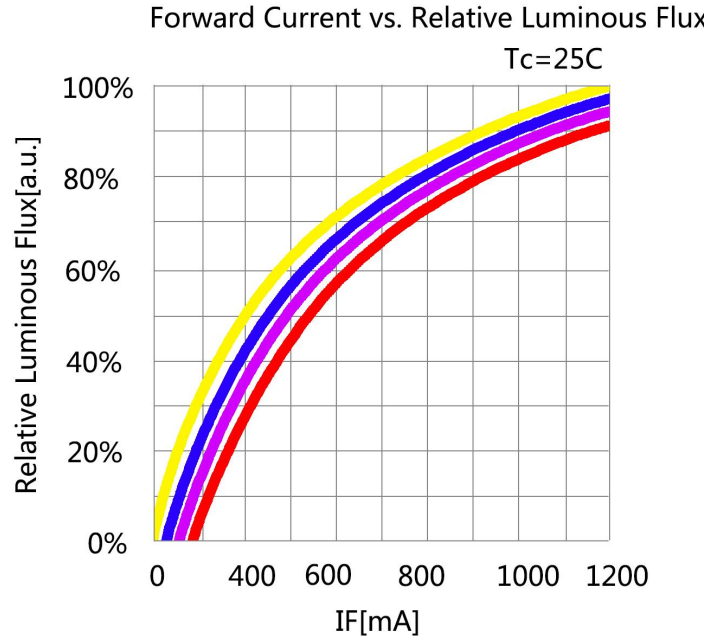
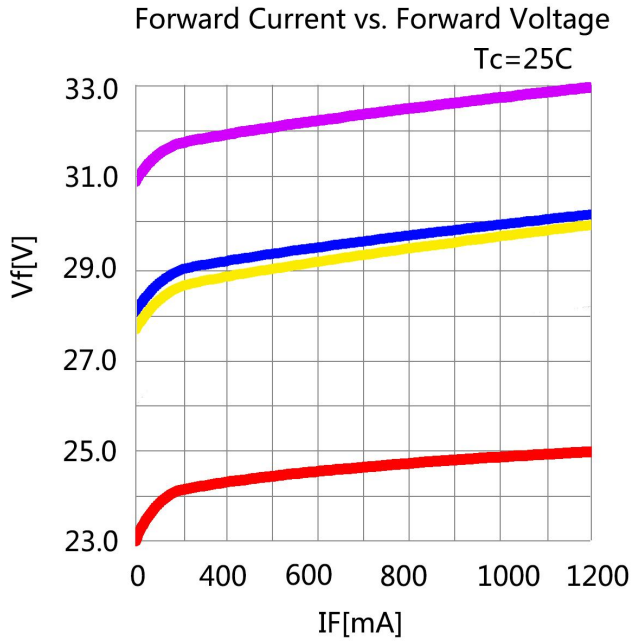
| 参数                  | 符号       | 颜色   | 最小值 | 平均值 | 最大值  | 单元  | 测试条件      |
|---------------------|----------|------|-----|-----|------|-----|-----------|
| Forward Voltage     | VF       | R    | 23  | 24  | 25   | V   | IF=1050mA |
|                     |          | B/W  | 28  | 29  | 30   | V   | IF=1050mA |
|                     |          | V    | 31  | 32  | 33   | V   | IF=1050mA |
| Luminous Flux       | Φ        | R    |     |     |      | Lm  | IF=1050mA |
|                     |          | B/W  |     |     |      | Lm  | IF=1050mA |
|                     |          | V    |     |     |      | Lm  | IF=1050mA |
| Dominant Wavelength | Wld/W LP | V    | 400 | 403 | 405  | nm  | IF=1050mA |
|                     |          | R    | 620 | 623 | 625  | nm  | IF=1050mA |
|                     |          | W    | 525 | 530 | 535  | nm  | IF=1050mA |
|                     |          | B    | 455 | 458 | 460  | nm  | IF=1050mA |
| Colour temperature  | IR       |      |     |     | 10   | μA  | VR=31V    |
| Reverse Current     | 2θ1/2    |      |     |     | 140  | deg | IF=1050mA |
| Viewing Angle       | IF(rec)  | BRVW |     |     | 1050 | mA  |           |

#### Notes:

Measurement tolerance of forward voltage±0.1V

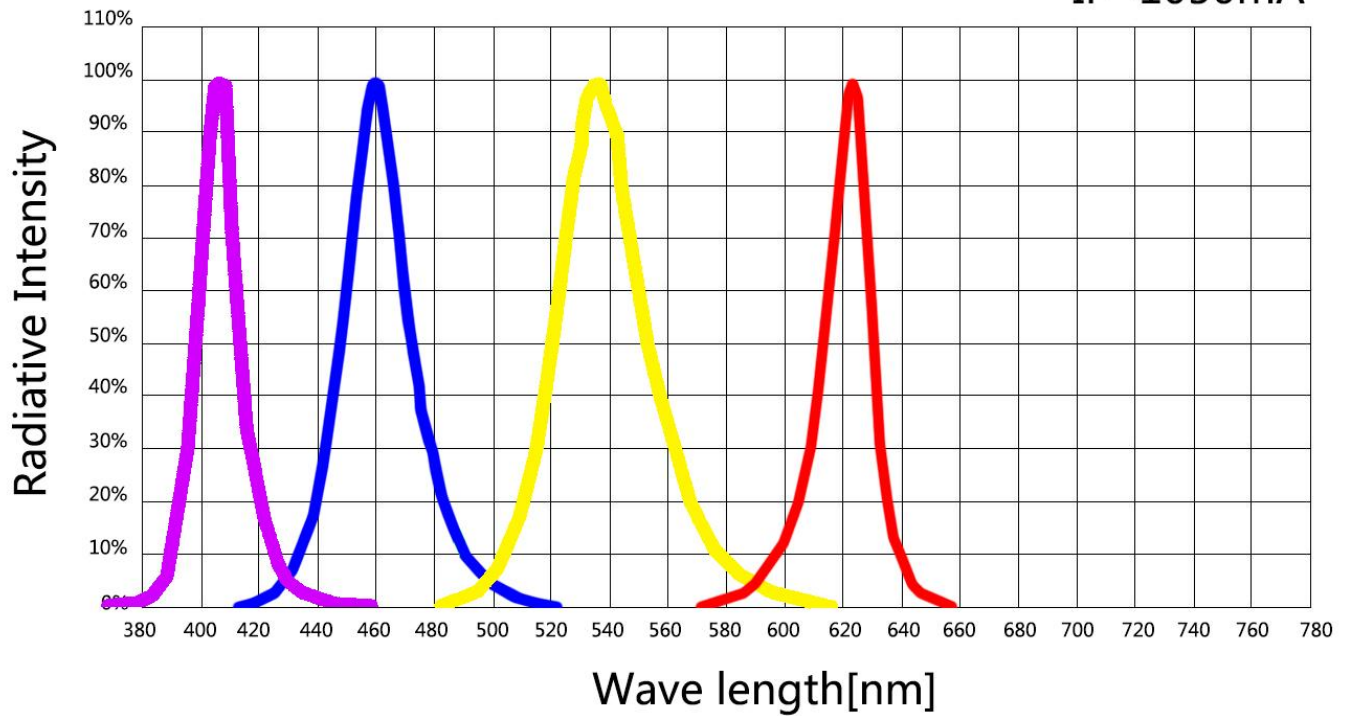
## 5. Optical Character Curves

( 25 ° Ambient Temperature Unless Otherwise Noted )



## 6. Spectrum Curves

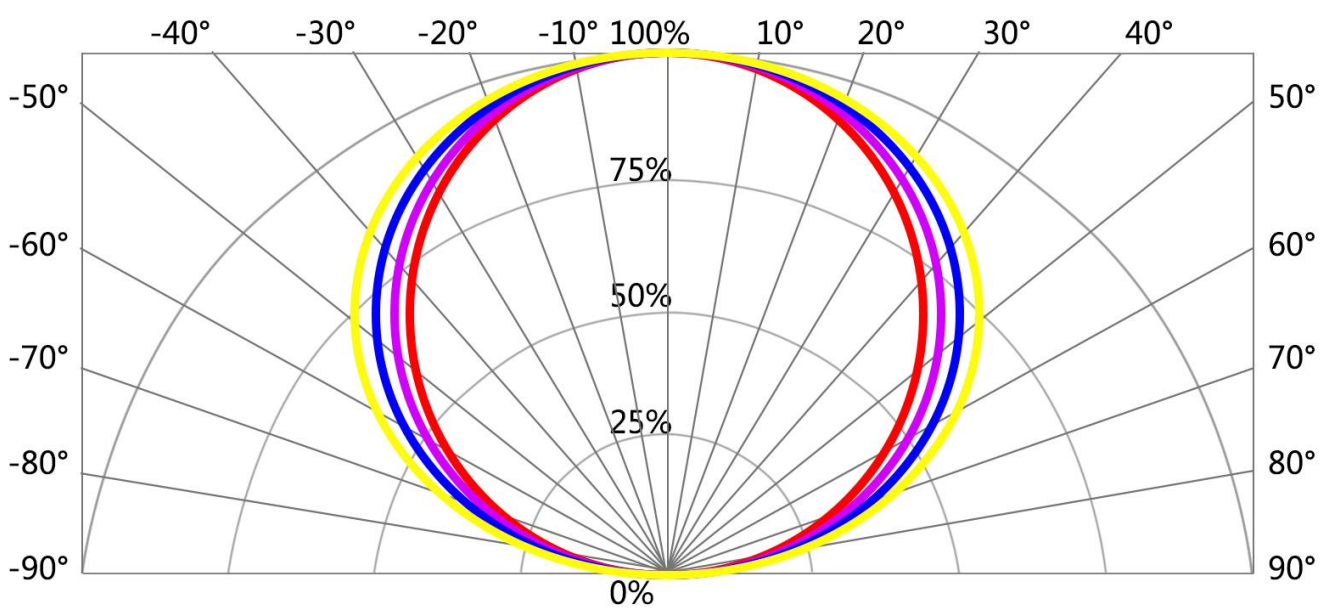
IF=1050mA



## 7. Viewing Angle Curves

Radiation Characteristic

IF=1050mA



## 8.Cautions

### 1. Electrostatic Treatment

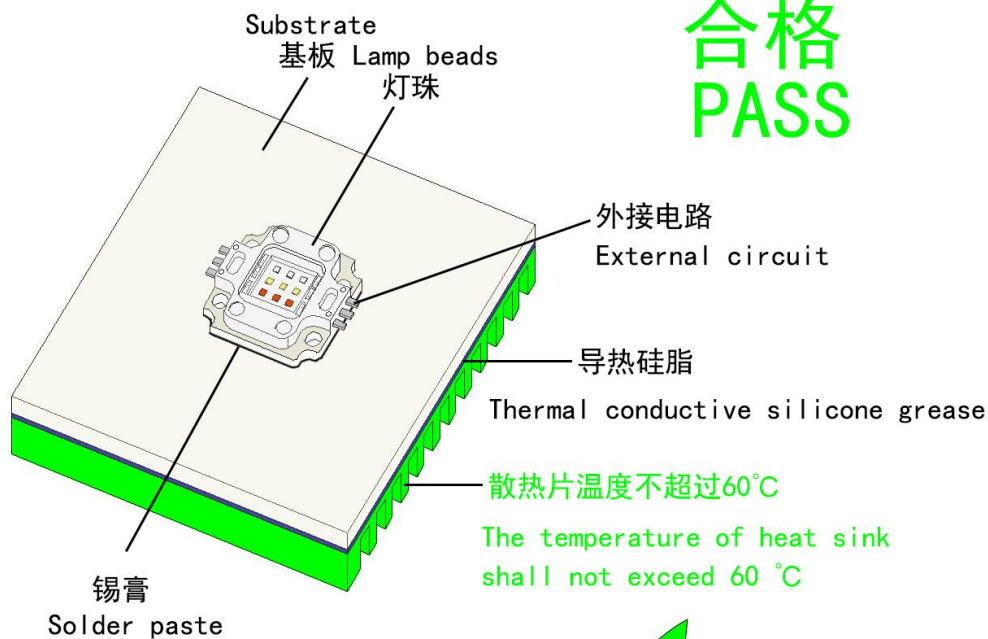
Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)



### 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.



合格  
PASS

OK

