

PRODUCT SPECIFICATION



Part No. : JH-40RGBW14G45-Z1C
High Power LED

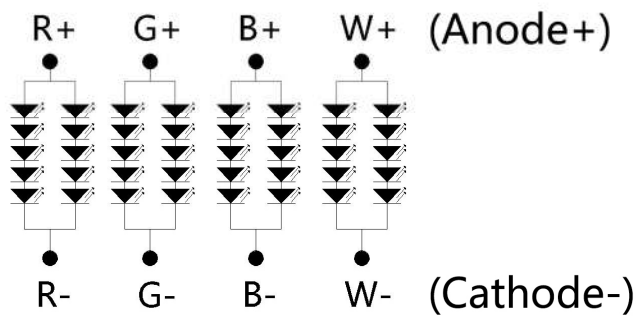
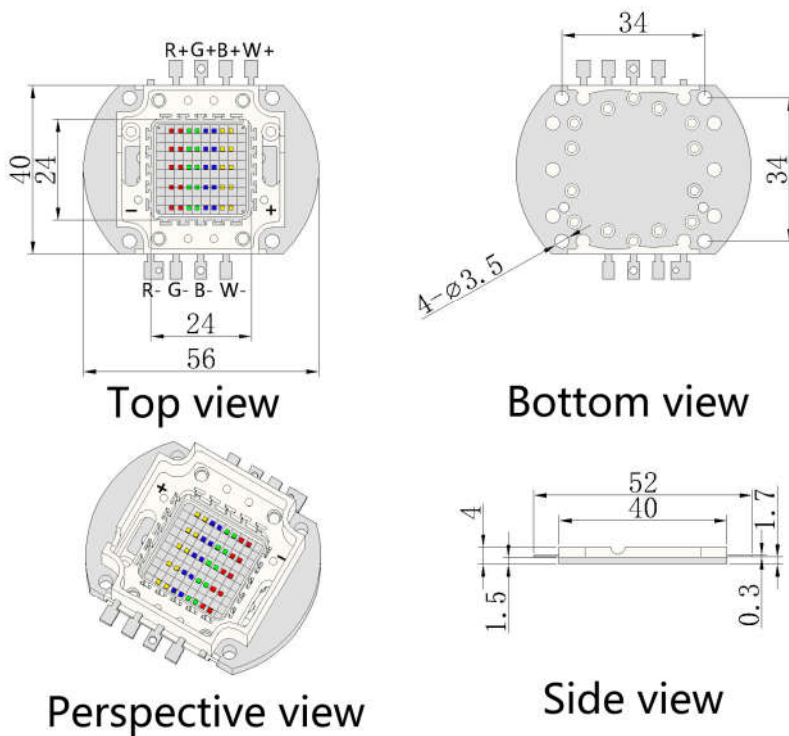
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1. Product Features

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

2. Dimensions



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	700	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	1000	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	40	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	260°C	

4./Optical Character @ Ta=25° C

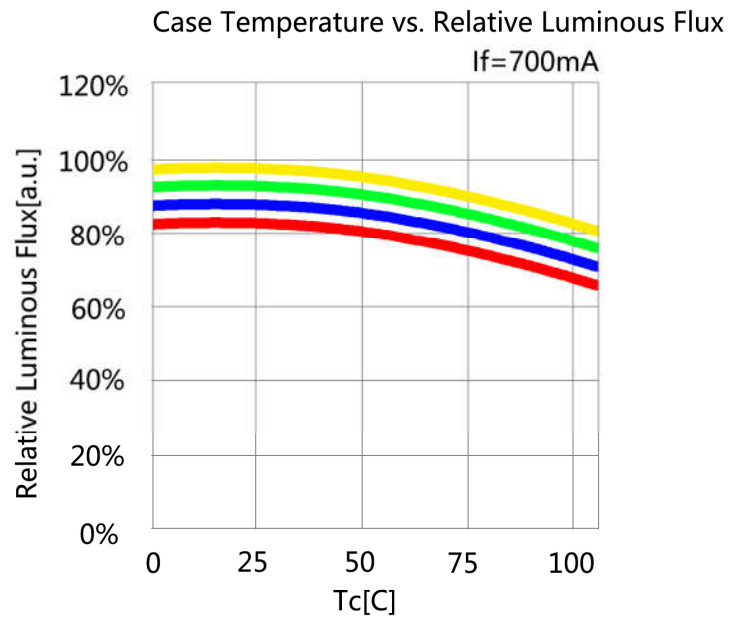
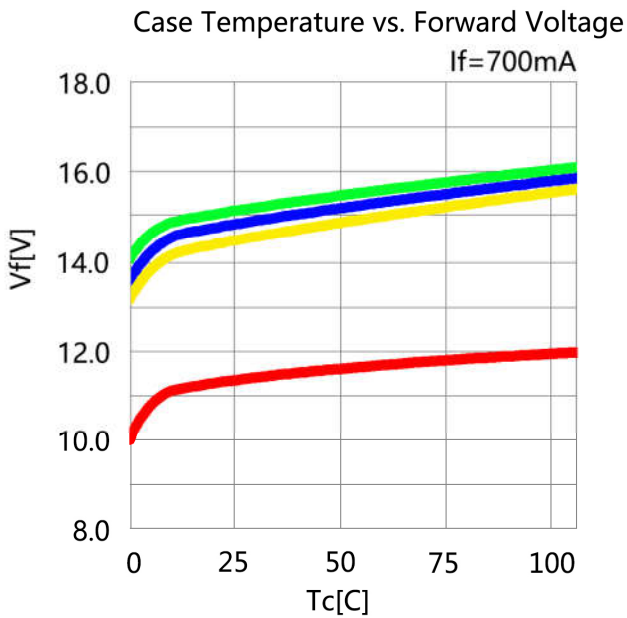
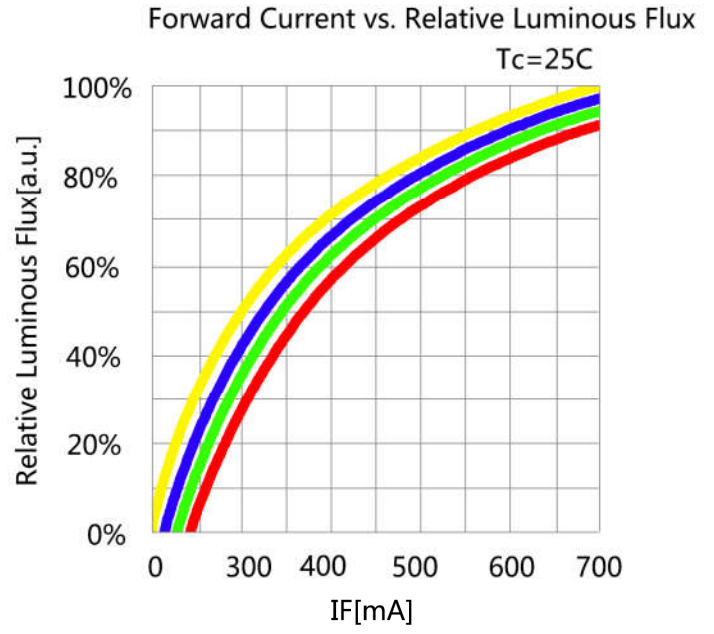
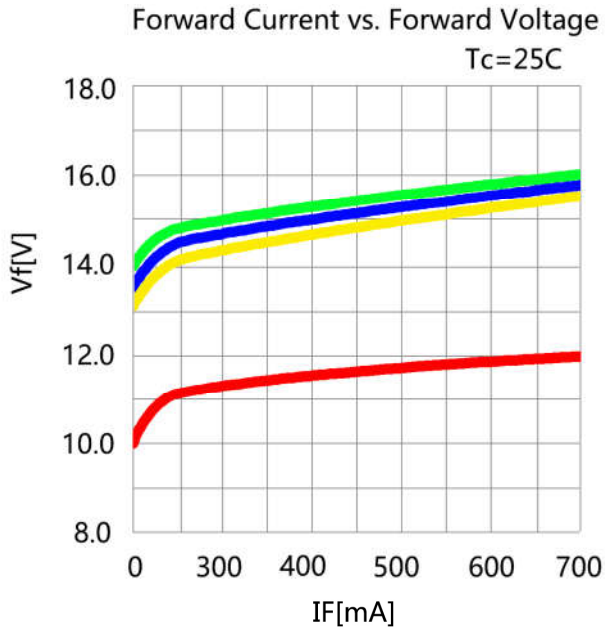
Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	R	10	11	12	V	IF=700mA
		G/B	14	15	16	V	IF=700mA
		W	14	15	16	V	IF=700mA
Luminous Flux	Φ	R	400	500	600	Lm	IF=700mA
		G/B	800/250	900/300	1000/35	Lm	IF=700mA
		W	1100	1200	1300	Lm	IF=700mA
Dominant Wavelength	Wld	R	620	622.5	625	nm	IF=700mA
		G	520	522.5	525	nm	IF=700mA
		B	460	462.5	465	nm	IF=700mA
Colour temperature	Tc	W	6000	6500	7000	K	IF=700mA
Reverse Current	IR				10	μA	VR=5V
Viewing Angle	2θ1/2				140	deg	IF=700mA
Recommend Forward Current	IF(rec)	RGBW			700	mA	

Notes:

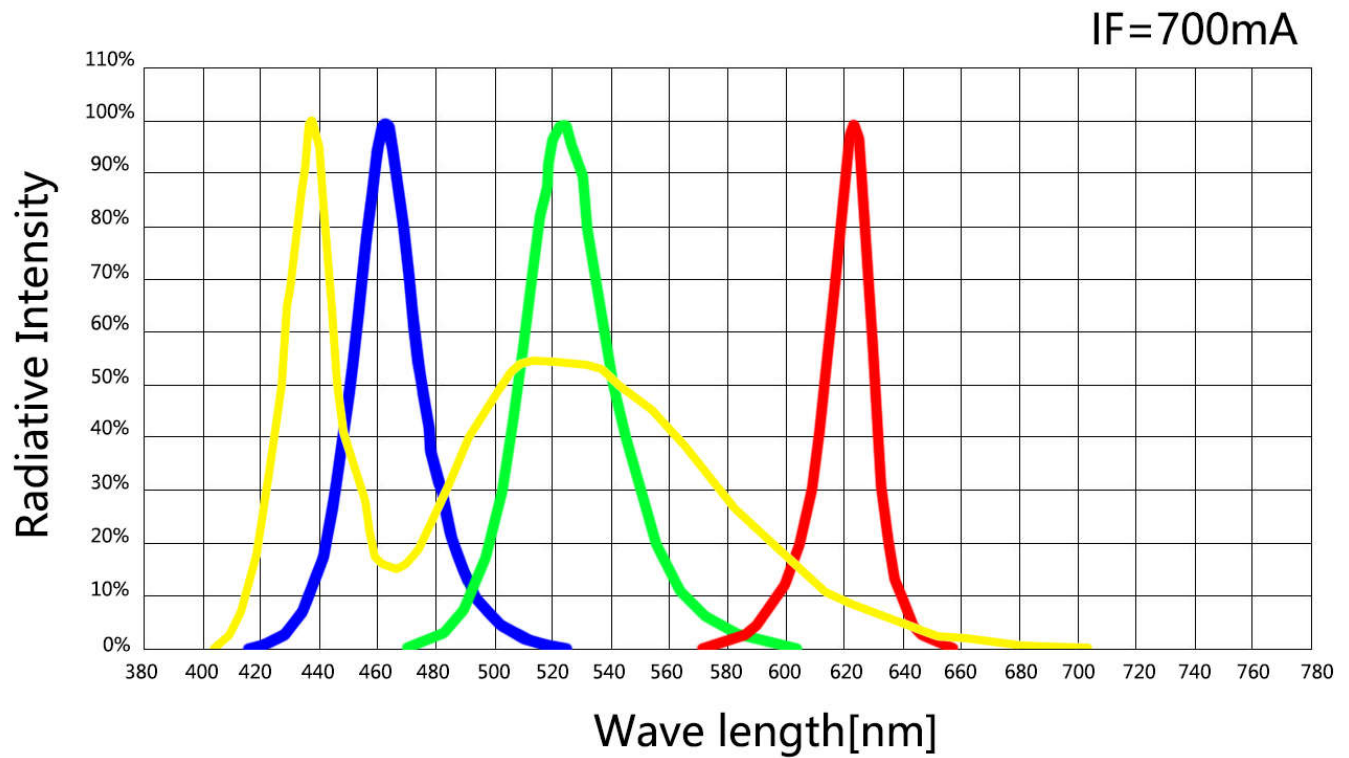
Measurement tolerance of forward voltage±0.1V

5. Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)



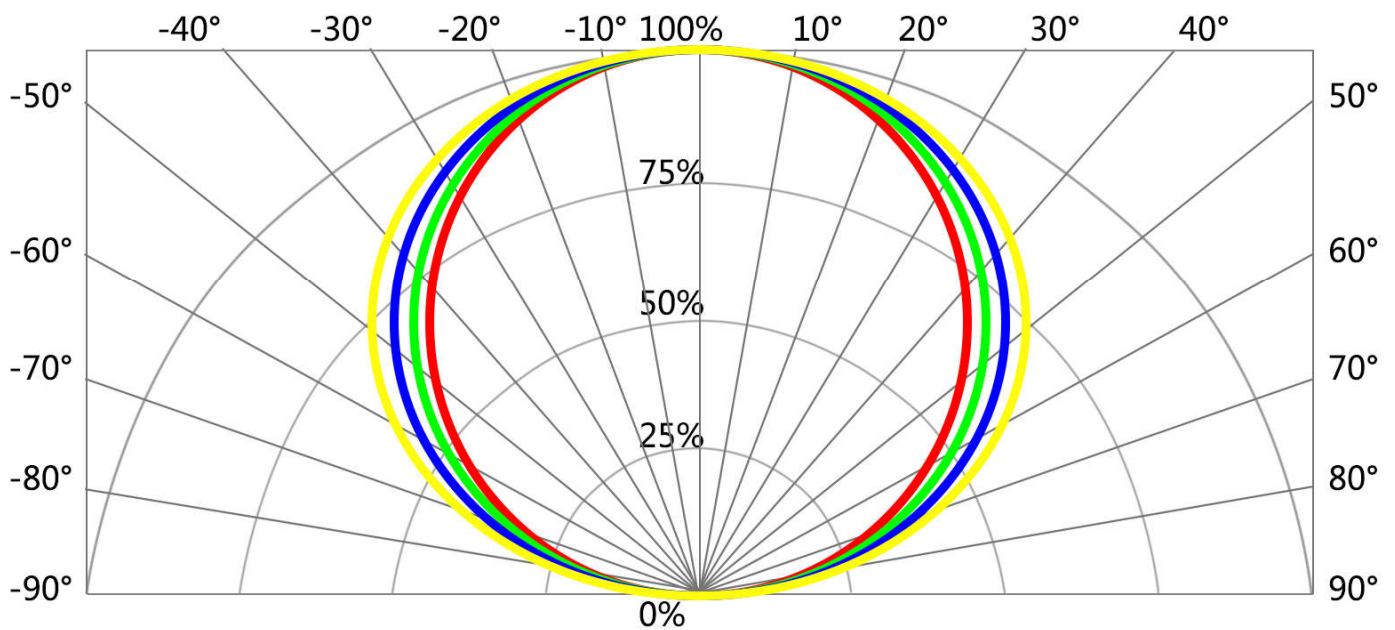
6. Spectrum Curves



7. Viewing Angle Curves

Radiation Characteristic

IF=700mA



8.Cautions

1. Electrostatic Treatment

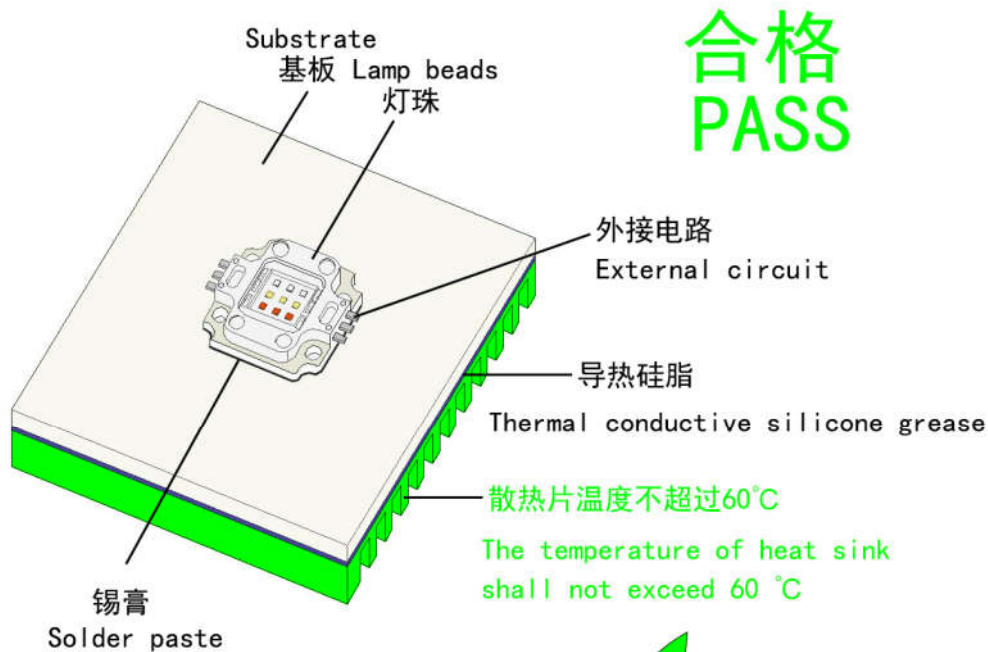
Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)



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

