

# PRODUCT SPECIFICATION



**Part No. : JH-50WWBVG14G45-J4C-T3**  
**High Power LED**

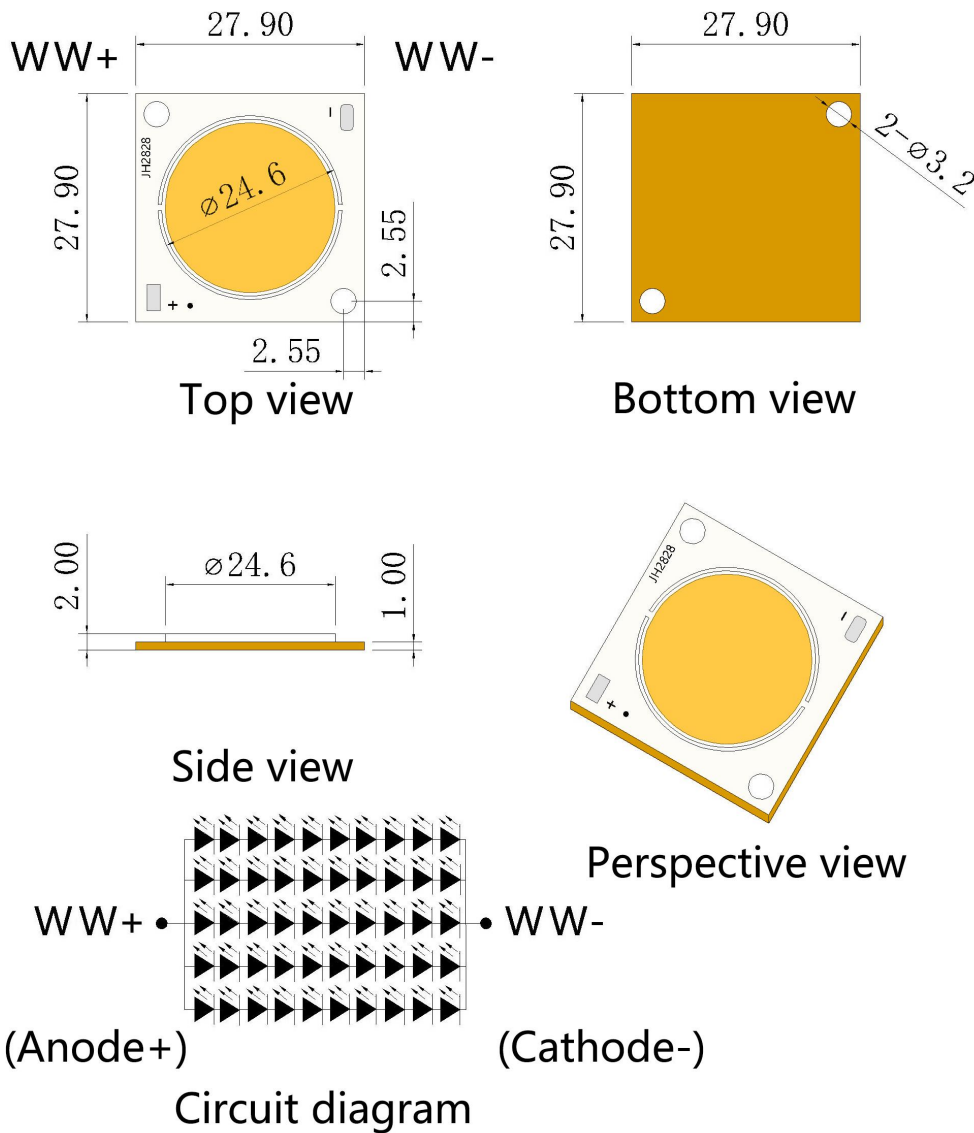
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# 1.Product Features

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

# 2.Dimensions



### Notes:

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

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

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	1750	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	1800	mA
Reverse Voltage	VR	36	V
Power Dissipation	PD	50	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

参数	符号	颜色	最小值	平均值	最大值	单元	测试条件
Forward Voltage	VF	WW	30	31	32	V	IF=1750mA
Luminous Flux	Φ	WW	3000	3250	3500	Lm	IF=1750mA
Chromaticity Coordinates	x			0.43		\	IF=1750mA
	y			0.40		\	IF=1750mA
Color Temperature	Tc	WW		3000		K	IF=1750mA
Reverse Current	IR		0		10	μA	VR=36V
Display index	Ra		95		98		IF=1750mA
Viewing Angle	2θ1/2				140	deg	IF=1750mA
Recommend Forward Current	IF(rec)	WW			1750	mA	

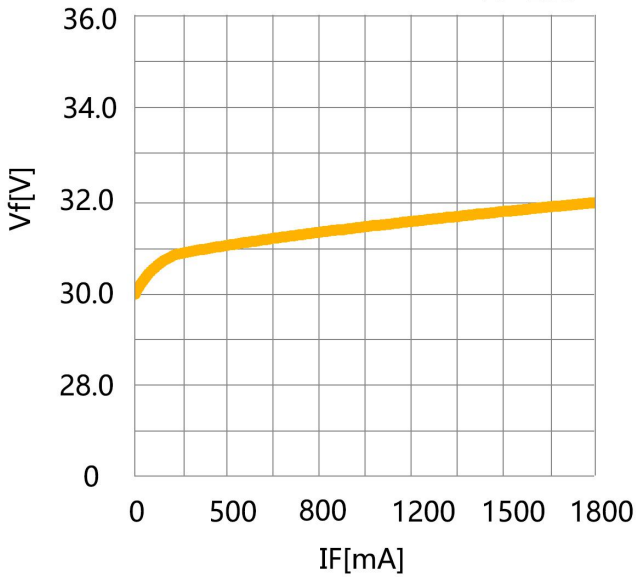
#### Notes:

Measurement tolerance of forward voltage ±0.1V

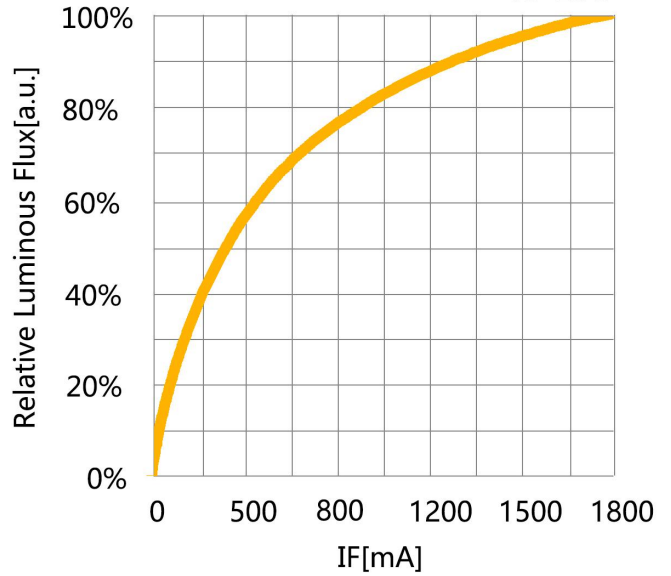
## 5. Optical Character Curves

( 25 ° Ambient Temperature Unless Otherwise Noted )

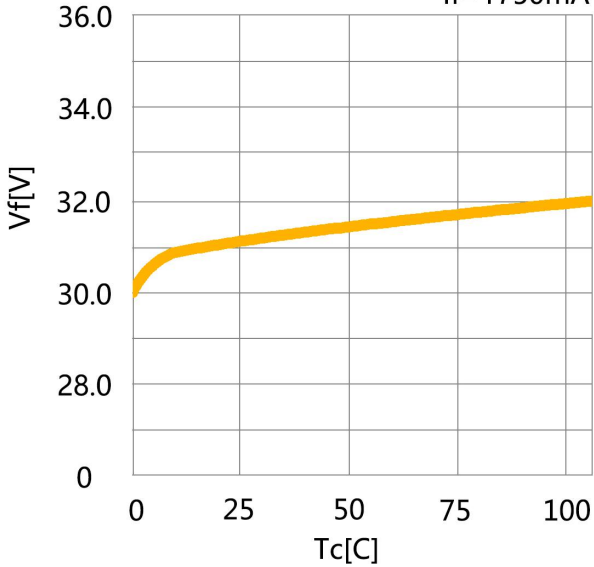
Forward Current vs. Forward Voltage  
Tc=25C



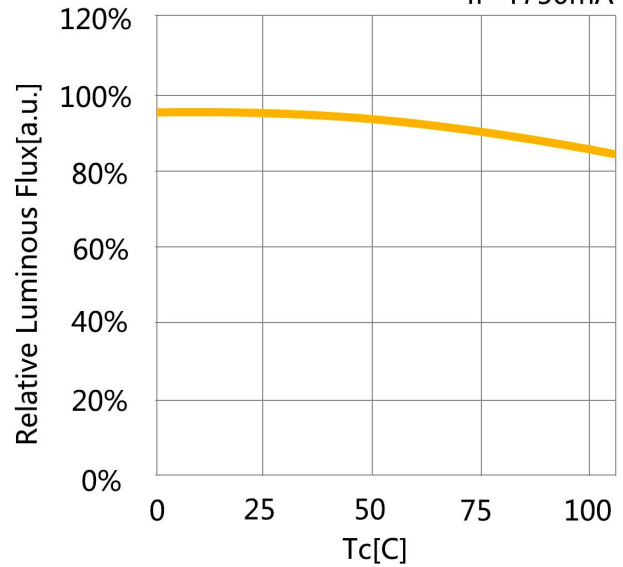
Forward Current vs. Relative Luminous Flux  
Tc=25C



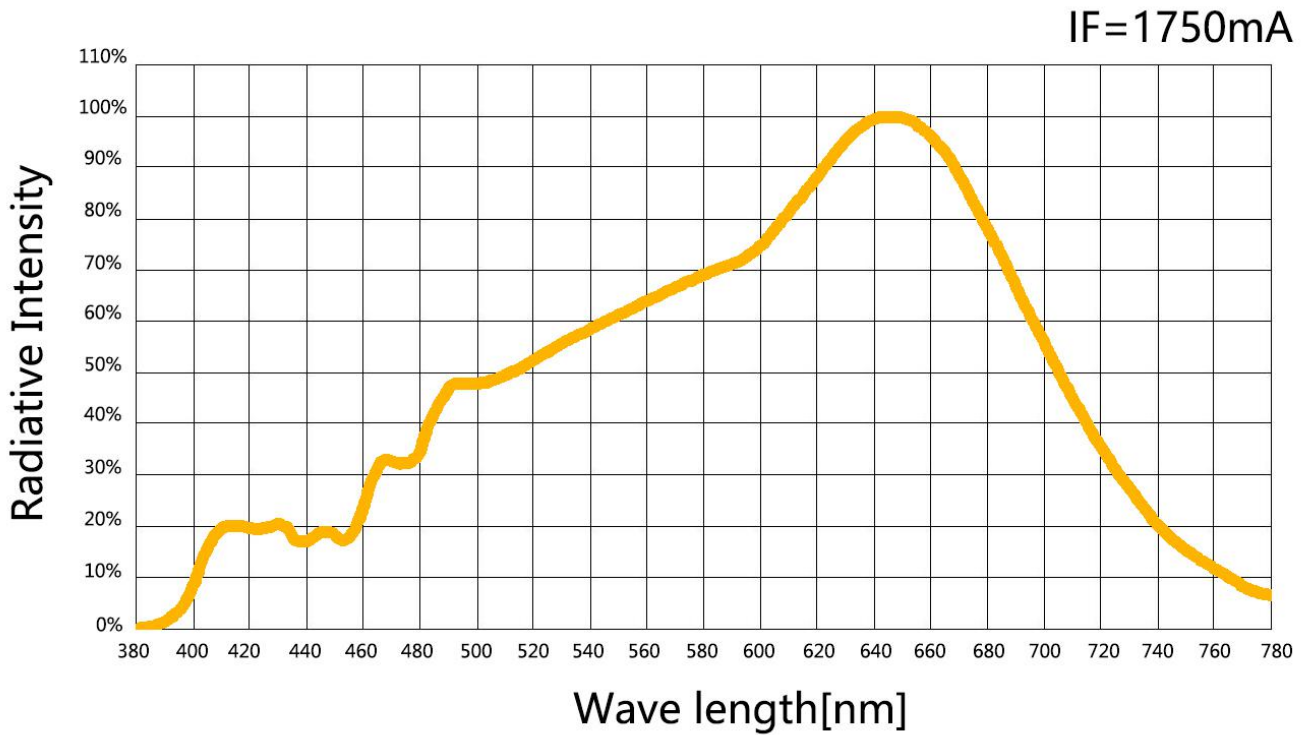
Case Temperature vs. Forward Voltage  
If=1750mA



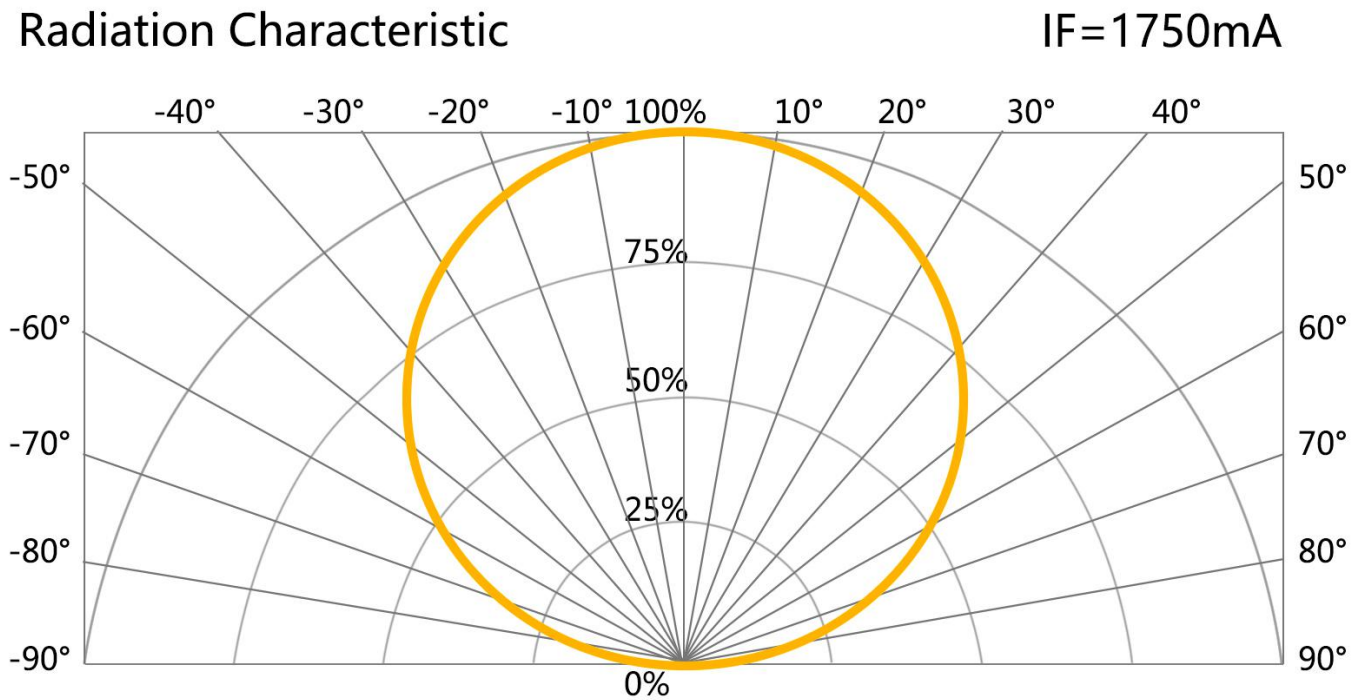
Case Temperature vs. Relative Luminous Flux  
If=1750mA



## 6. Spectrum Curves



## 7. Viewing Angle Curves



## 8.Cautions

### 1. Electrostatic Treatment

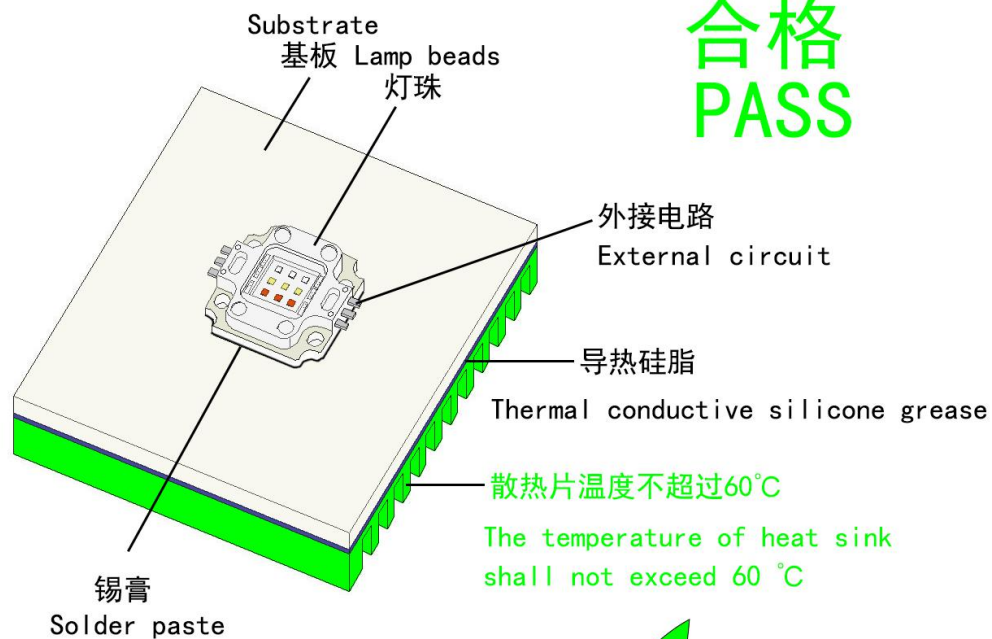
Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)



### 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

