

# **PRODUCT SPECIFICATION**



# Part No. : JH-3535W12GE55-T8A-DZ High Power LED

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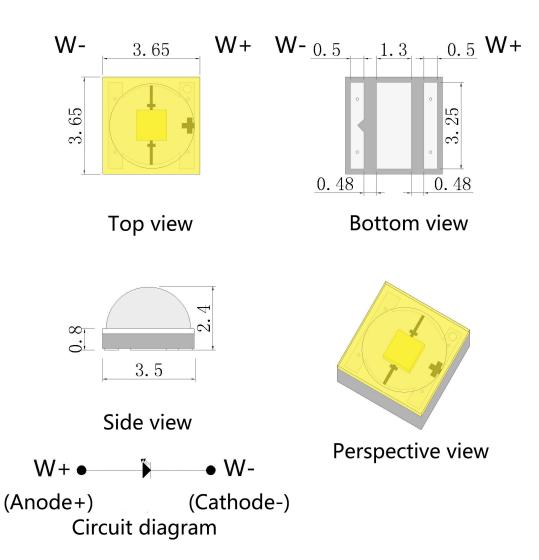


#### 1.Product Features

- High Brightness White LED
   Round Package
- Viewing Angle 120 Degree
- Transparent Silicone

- Chip Material: InGaN
- RoHS Compliant

#### 2.Dimensions



#### **Notes:**

- 1. All dimensions are in millimeters.
- 2. Tolerance is ±0.1mm unless otherwise noted.



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

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	1500	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	1800	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	5	W
Electrostatic Discharge	ESD	1000	V
Operating Temperature Range	TOPR	-25°C to +60°C	
Storage Temperature Range	TSTG	-35°C to +80°C	
Lead Soldering Temperature	TSOL	260°C	

## 4.Optical Character @ Ta=25° C

Parameter	Symbol	Color	Min.	Тур.	Max.	Unit	Test Condition
Forward Voltage	VF	W	3.2	3.4	3.6	V	I <sub>F</sub> =1500mA
Luminous Flux	Ф	W	600	625	650	LM	I <sub>F</sub> =1500mA
Color Temperature	Tc	W	5500	6000	6500	K	I <sub>F</sub> =1500mA
Reverse Current	IR		0		10	μΑ	V <sub>R</sub> =5V
Viewing Angle	201/2				120	deg	I <sub>F</sub> =1500mA
Recommend Forward  Current	IF(rec)	W			1500	mA	

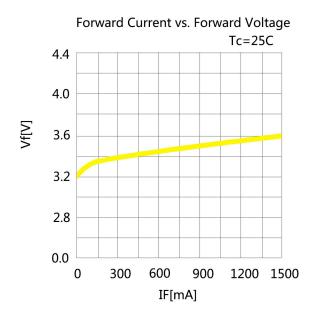
#### **Notes:**

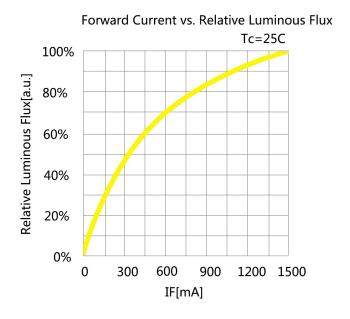
Measurement tolerance of forward voltage±0.1V

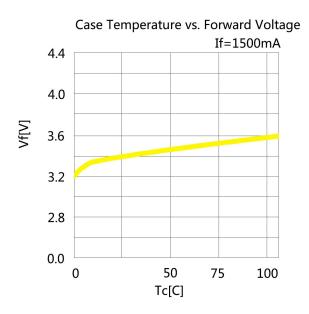


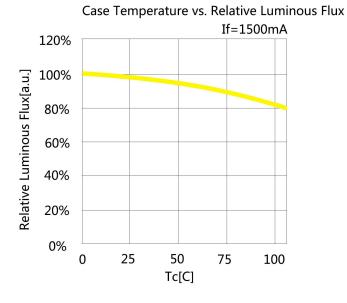
## **5.** Optical Character Curves

#### (25 ° Ambient Temperature Unless Otherwise Noted)



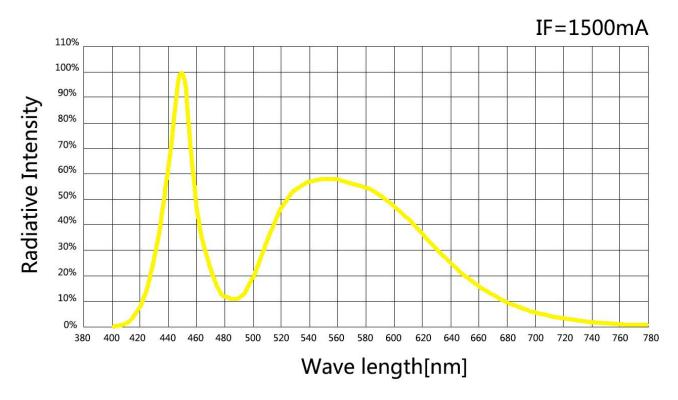




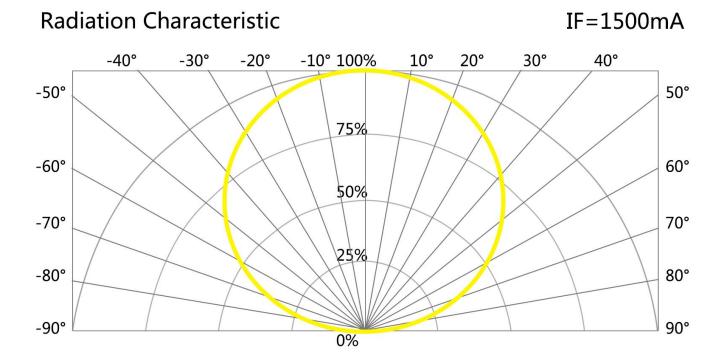




## **6.** Spectrum Curves



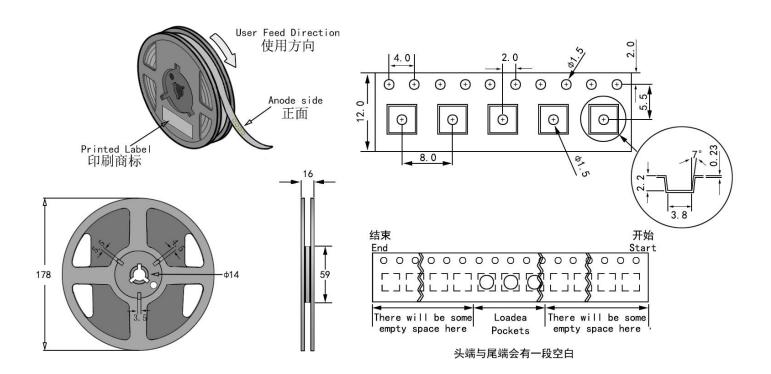
### 7. Viewing Angle Curves





### 8. 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  $25^{\circ}$ C ± 3°C, humidity 50-60%. If unpacked above 1 week, bake at  $60\pm5^{\circ}$ C for 10-12 hours before weld.



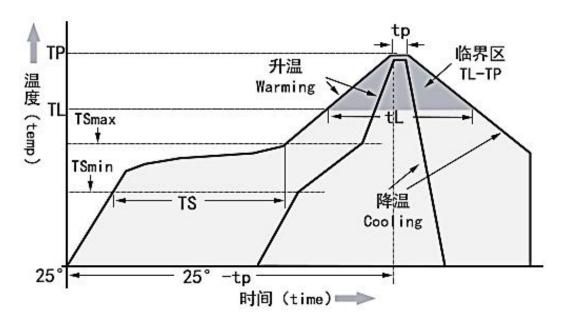
#### **Notes:**

- 1. QTY: 1000pcs/Reel
- 2. Tolerance ±0.2mm.
- 3. Package: P/N



### **9.**Soldering Advice

1. When soldering,don't touch the LED appearance gel during,this bad operation will destroy the LED.Moding LED usually use reflow soldering, please refer to the following reflow temperature curve, and recommend the user follow the soldering temperature curve of the solder paste.



Temperature Curve Character	Lead-free solder			
Average heating rate(TSmin to Tp)	最高 3℃/秒 Top 3 ℃ / s			
Preheating: Minimum temperature ( TSmin )	90℃			
Preheating: Maximum temperature ( TSmax)	200℃			
Preheating: Time ( TSmin to TSmax)	60-180 s			
Duration above temperature: Temperature TL	240°C			
Duration above temperature: Time tL	60-150 s			
Peak/classification temperature (Tp)	260℃			
Time within 5°C of actual peak temperature (tp)	20-40 s			
	最高 6℃/秒			
Cooling speed	The highest 6 ℃ / s			
<b>-</b> :	最多8分钟			
Time to reach peak temperature at 25℃	8 minutes Max			



#### 10.Cautions

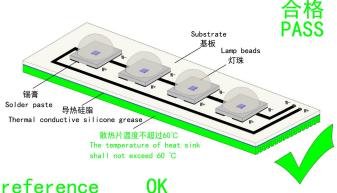
#### 1. Electrostatic Treatment

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.
- 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

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:



