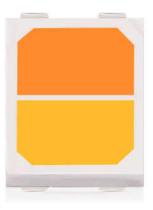


PRODUCT SPECIFICATION



Part No. : JH-2835WWW12P18-T14A High Power LED

Catalog	
1.Product Features	P2
2.Dimensions	P2
3.Absolute Maximum Rating	P3
4.Optical Character	P3
5.Optical Character Curves	P4
6.Spectrum Curves	P5
7.Viewing Angle Curves	P5
8.Tape&Reel Packing	P6
9.Soldering Advice	P7
10.Cautions	P8



1.Product Features

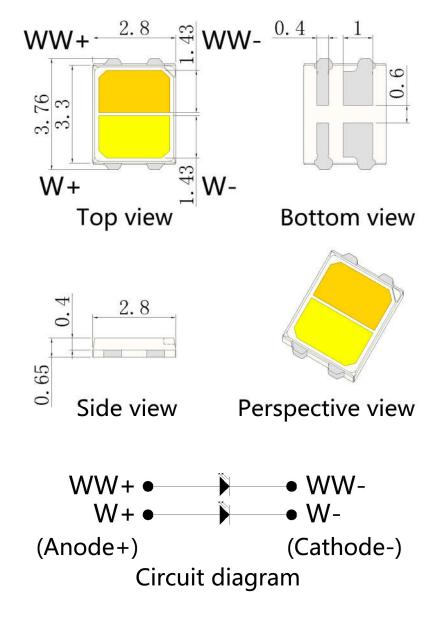
• High Brightness WWW LED

Plane Package

• Viewing Angle 120 Degree

2.Dimensions

- Chip Material: InGaN AlGaInP
- RoHS Compliant



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	150	mA	
Peak Forward Current	IFp	200	mA	
(1/10 Duty Cycle, 0.1ms Pulse Width)				
Reverse Voltage	VR	5	V	
Power Dissipation	PD	500	mW	
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.光学特征 @ Ta=25°C /Optical Character @ Ta=25° C

Parameter	Symbol	Color	Min.	Тур.	Max.	Unit	Test Condition
Forward Voltage VF	W	2.8	3.0	3.2	V	I _F =150mA	
Forward voltage	VF	WW	2.8	3.0	3.2	V	I _F =150mA
Luminous Flux	Luminous Flux Φ	W	20	25	30	Lm	I _F =150mA
Eurimous Flux	Ψ	WW	20	25	30	Lm	I _F =150mA
Color tomporatura	ure Tc	W		5500		К	I _F =150mA
Color temperature		WW		3000		К	I _F =150mA
Color rendering index Ra	W	95		98		I _F =150mA	
	Kd	WW	95		98		I _F =150mA
Reverse Current	IR				10	μA	V _R =5V
Viewing Angle	201/2				120	deg	I _F =150mA
Recommend Forward Current	IF(rec)	w/ww			150	mA	

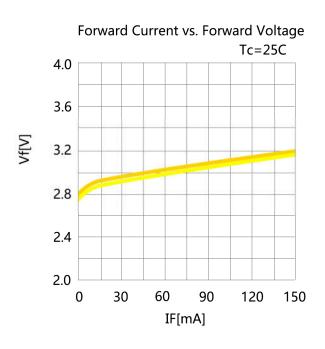
Notes:

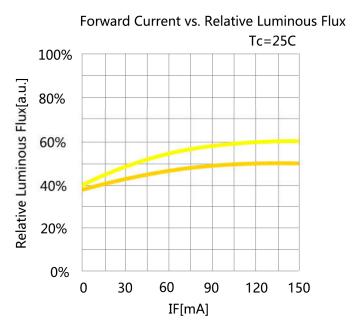


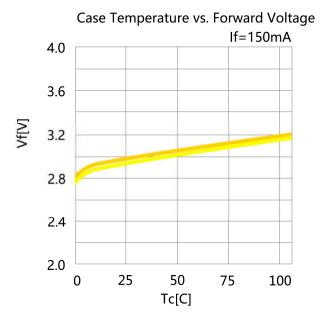
Measurement tolerance of forward voltage±0.1V

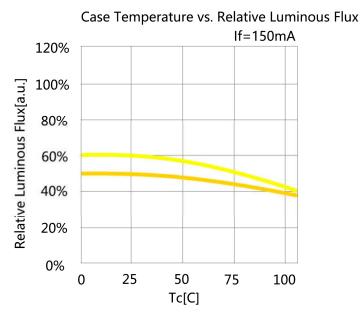
5. Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)



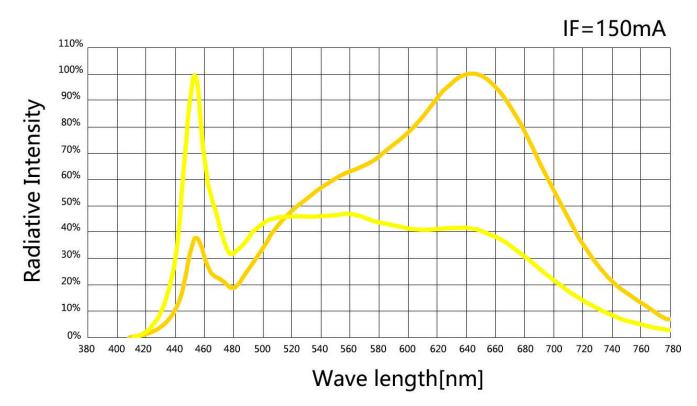








6. Spectrum Curves



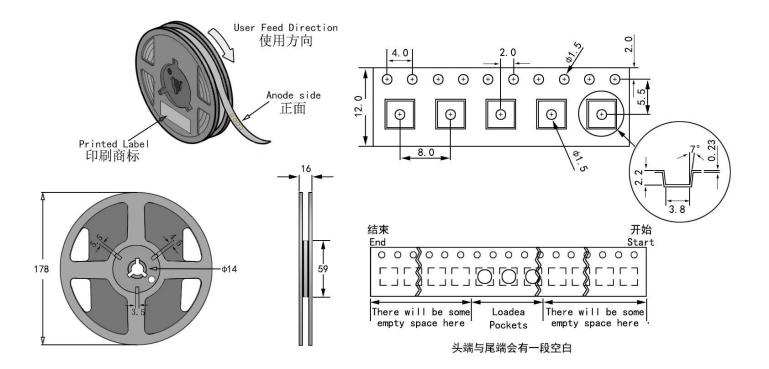
7. Viewing Angle Curves

Radiation Characteristic IF=150mA -20° -10° 100% 10° 30° 40° 20° -40° -30° -50° 50° 75% -60° 60° 50% -70° 70° 25% -80° 80° -90° 90° 0%



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



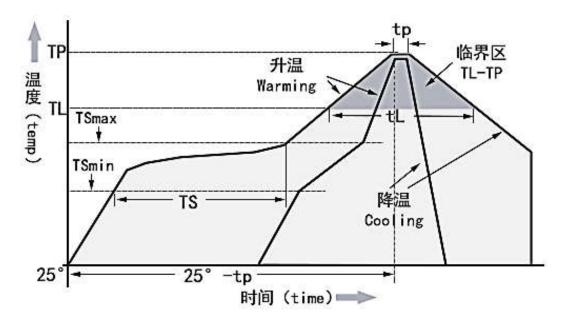
Notes:

- 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°C			
Preheating: Maximum temperature (TSmax)	200°C			
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°C			
Time within 5°C of actual peak temperature (tp)	20-40 s			
	最高 6℃/秒			
Cooling speed	The highest 6 $^\circ C$ / s			
	最多8分钟			
Time to reach peak temperature at 25°C	8 minutes Max			



10.Cautions

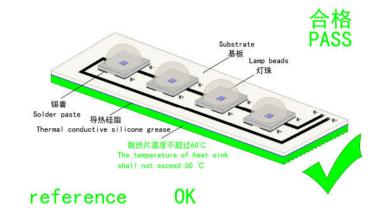
1. Electrostatic Treatment

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.
- 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.



3. Installation Conditions

A、Do not exert any pressure on the LED area during the use of the led beads. such as below:

