Approval Sheet

Customer:

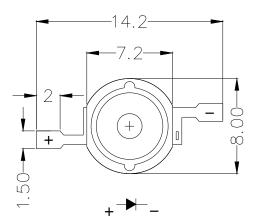
Item: High Power LED – 1 W

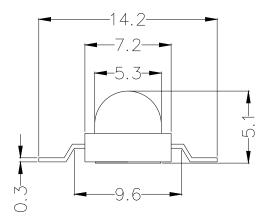
Part No.: WLG28-140-XX1

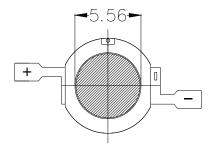
Customer P/N:_____

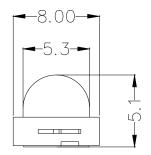
Customer Approval

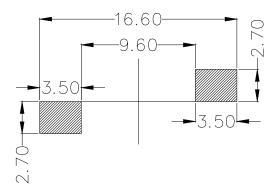
PACKAGE DIMENSIONS











Note:

- 1. All Dimensions are in millimeters
- 2. Tolerance is ± 0.25 mm (0.010") Unless otherwise specified.

	Material	Emitting Color		Lens Type		
		Green		Water Clear		
Absolute Maximum Ratings at Ta=25°C						
	Parameter	Symbol	Ma	ax	Unit	
	Power Dissipation	P _D	1.	2	W	
1/10	Peak Forward Current Duty Cycle,0.1ms Pulse Width	I _{FP}	50	00	mA	
С	ontinuous Forward Current	١ _F	35	50	mA	
	Reverse Voltage	V _R	Ę	5	V	
	ESD Sensitivity	ESD	20	00	V	
Op	erating Temperature Range	Topr		-40℃ to+80℃		
S	torage Temperature Range	Tstg		-25℃ to+100 ℃		

Electrical Optical Characteristics at Ta=25℃

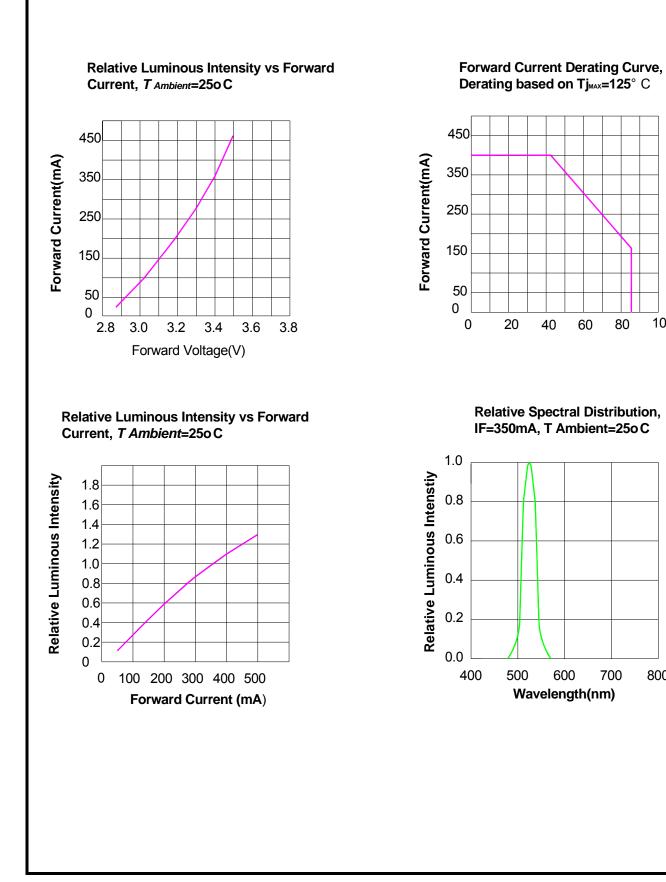
Parameter	Symbol	Min	Тур	Max	Unit	Conditio
Forward Voltage	VF	3.0	3.4		V	IF=350mA
luminous flux	IV	50	70		lm	IF=350mA
Dominant Wavelength	λd	510	520		nm	IF=350mA
Temperature Color	ССТ				К	IF=350mA
Reverse Current	IR			10	μA	IF=350mA
Viewing Angle	201/2		120		deg	IF=350mA

Note.

1. $2\theta 1/2$ is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.

2. View angle tolerance is \pm 10

Typical Electro-Optical Characteristics Curves

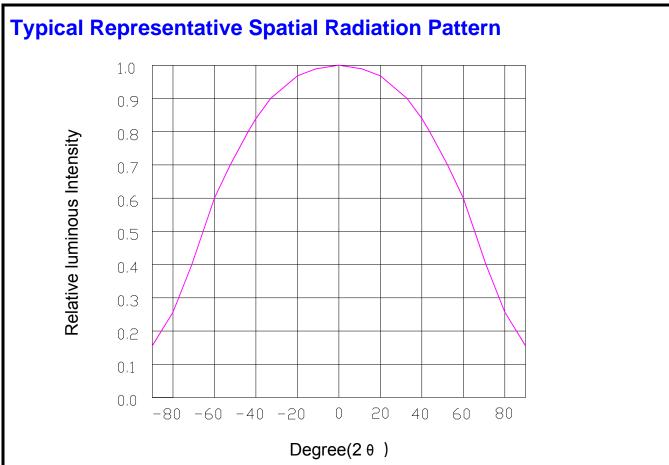


700

800

100

80



Note.

1. 201/2 is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.

2. View angle tolerance is ± 10

Luminous Flux Bin Table (Im at 350mA)

BIN	Lg	LH	Li	Lj
Luminous Flux	50-60	60-70	70-80	80-90

*Measure Uncertainty of Luminous Flux:±10%

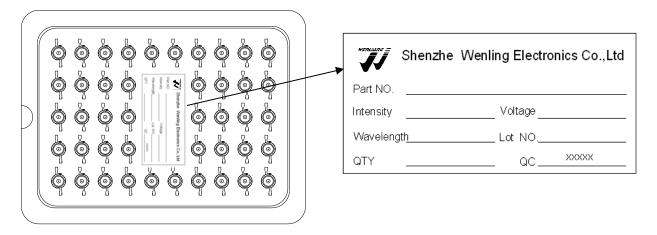
Forward Voltage Combination(V at 350mA)

BIN	S	т	U	V
Forward Voltage	3.0-3.2	3.2-3.4	3.4-3.6	3.6-3.8

*Measure Uncertainty of Forward Voltage:±0.1V

Packing Specification

♦Anti-electrostatic bag



1. Storage

1. Do not open the moisture proof bag before the devices are ready to use.

2. Before the package is opened, LEDs should be stored at temperatures less than 30° C and humidity less than 90%.

3. LEDs should be used within a year.

4. After the package is opened, LEDs should be stored at temperatures less than 30 $^\circ\!C$ and humidity less than 60%.

5. LEDs should be used within 168 hours (7 days) after the package is opened.

6. If the moisture absorbent material (silicone gel) has faded away or LEDs have exceeded the storage time, baking treatment should be implemented based on the following conditions: pre-curing at $60\pm5^{\circ}$ for 24 hours.

2. Thermal Management

1). For maintaining the high flux output and achieving reliability, LEDs should be mounted on a metal core printed circuit board (MCPCB) or other kinds of heat sink with proper thermal connection to dissipate approximately 1W of thermal

2). Don't reflow soldwer.

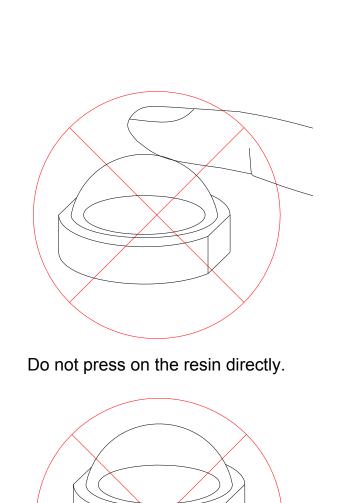
3). Sufficient thermal management must be implemented. Otherwise, the junction temperature of die may exceed over the limit at high current driving conditions and the LEDs' lifetime may be decrease dramatically.

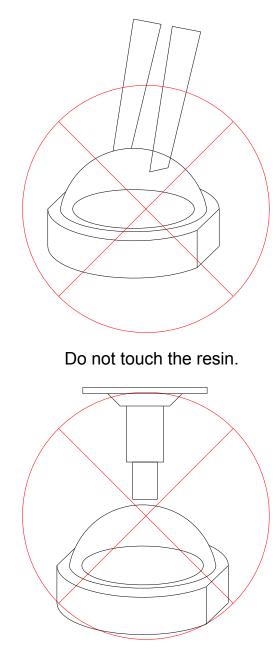
4). For further thermal management suggestions, please consult the Wenliang Design Guide or local representatives for assistance.

5). Special thermal designs are also recommended to take in outer heat sink design, such as FR4 PCB on Aluminum with thermal vias or FPC on Aluminum with thermal conductive adhesive, etc.

3.Proper Handling

Please do not touch leds as four pictures listed below.





Do not stack the led together. Avoid directly contacting with nozzle.