## SPECIFICATION FOR APPROVAL

CUSTOMER:

ARTICLE: 10mm Round white diffused Green LED

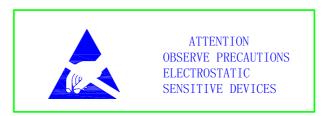
PART NO: FLR-100W04-PG5

DATE: 2011-07-25

CUSTOMER MODEL:

RoHS PRODUCT

# **Authorized Signature**



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## SHENZHEN FURUIER PHOTOELECTRIC CO., LTD.

LED Lamp

PRODUCTMODEL: FLR-100W04-PG5

### ØAbsolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit		
Forward Current	IF	20	mA		
Peak Forward Current	IFP	120	mA		
Reverse Voltage	VR	5	V		
Power Dissipation	PD	80	mW		
Operation Temperature	Topr	-35 <sup>~</sup> +80	${\mathbb C}$		
Storage Temperature	Tstg	-40 <sup>~</sup> +80	${\mathbb C}$		
Lead Soldering Temperature	Tsol	Max. 260° for 3sec Max.			

\*IFP Conditions:Pulse Width≤10msec duty≤1/10

\*Tsol Conditions: 4mm from the base of the epoxy bulb

### $\verb| ØTypicalOptical/ElectricalCharacteristics| \\$

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA		3. 1	3. 6	V
Reverse Current	IF	V <sub>R</sub> =5V			10	uA
50% Power Angle	<b>2</b> θ 1/2	IF=20mA		40		deg
Luminous Intensity	IV	IF=20mA		10000		mcd
Peak Wavelength	λр	IF=20mA	520	523	525	nm
Recommend Forward Current	Ir(rec)			10 <sup>~</sup> 20		mA

#### Notes:

1. Absolute maximum ratings Ta=25° C.

- 2. Tolerance of measurement of forward voltage  $\pm 0.1$ V.
- 3. Tolerance of measurement of peak Wavelength  $\pm 2.0$ nm.
- 4. Tolerance of measurement of luminous intensity ±15%.

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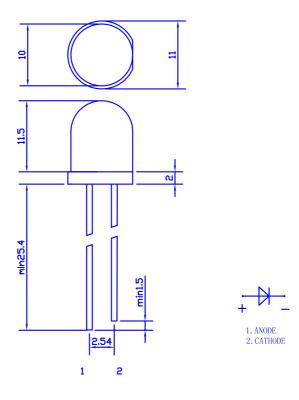


## SHENZHEN FURUIER PHOTOELECTRIC CO., LTD.

PRODUCTMODEL: FLR-100W04-PG5

LED Lamp

### ØPackage Dimensions And Materials



□ 0.5 SQUARE\*2

Chi	Lens Color				
Dice Material	Emitting Color	Lens Color			
InGaN	green	white diffused			

#### Notes:

- 1. All dimension units are millimeters
- 2. All dimension tolerance is  $\pm 0.2$ mm unless otherwise noted
- 3. An epoxy meniscus may extend about 1.5mm down the leads
- 4. Burr around bottom of epoxy may be 0.5mm max

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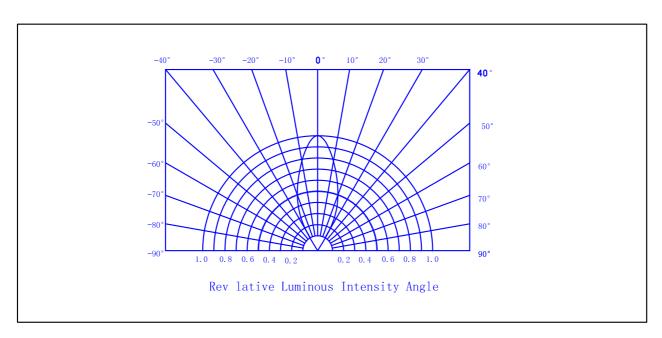


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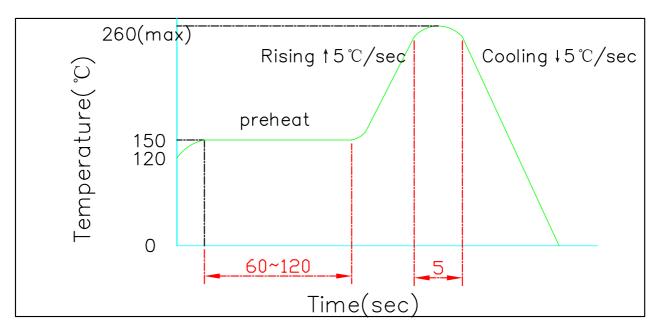
PRODUCTMODEL: FLR-100W04-PG5

LED Lamp

### ØSpatial Distribution



### ØReflow Temp/Time



### ØSoldering iron

Basic spec is  $\leq$ 5sec when 260°C. If temperature is higher, time should be shorter (+10°C-1sec) Power dissipation of iron should be smaller than 15W, and temperatures should be controllable. surface temperature of the device should be under 230°C

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### Electro-Optical Characteristic (Ta=25℃)

PARAMETER SYMBOL	SYMBOI TEST	Green		Orange		GaP Red		HI-EFF		Yellow		GaA1As		Blue		UNIT	
	CONDITTIONS	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.		
Forward Voltage	VF	IF=20mA	2.3	2.8	2.2	2.8	2. 3	2.8	2. 2	2.8	2. 2	2.8	1.8	2.5	3. 5	4. 5	V
Reverse Current	IR	VR=5V		100		100		100		100		100		100		100	uA
Wavelength	λР	IF=20mA	570		635		700		625		590		660		430		nm
Spectral Line Halfwidth	Δλ	IF=20mA	30		35		100		35		35		20		30		nm

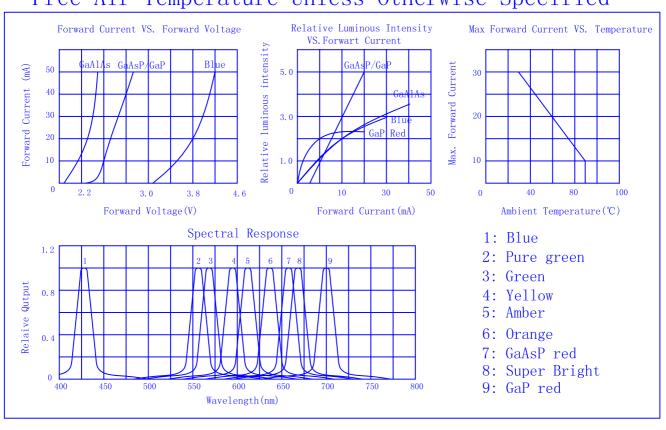
Absolute Maximum Ratings ( $Ta=\pm 25^{\circ}$ C)

PARAMETER	Green	Orange	Gap Red	HI-EFF	Yellow	GaAlAs	Blue	UNIT	
Reverse Voltage Per Segment or D.P.	5	5	5	5	5	5	5	V	
Average Forward Current (IF)	25	25	25	25	25	30	50	mA	
Peak Forward Current Per Segment Or Dp	200	200	200	200	200	200	200	mA	
Power Dissipation	85	85	85	85	85	100	120	mW	
Operating Temperature Range	-40°C ~+80°C								
Recommend Storage Temperature Range	10°C∼30°C								
I 1 C 1 I T									

Lead Solder Temperature (4mm From Body) 260°C for 3 sec

Life:100000H

## Typical Electron-Optical Characteristic Curves25°C Free Air Temperature Unless Otherwise Specified



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