LENOO	聯宇電子股份有限公司					
	LENOO ELECTRONICS CO., LTD.					
	新北市土城區永豐路 187 號					
NO. 187, Yung Feng Road,Tucheng Dist., New Taipei City , Taiwan (R.O.C.)						

APPROVAL SHEET

CUSTOMER:			
CUSTOMER PART NO.			
TYPE NO.: <u>L059PU</u>	RGW		
PACKAGE SIZE: 5m	nm Round Type Multi-Color	LED Lamps	
DICE MATERIAL:	AlInGaP / GaP	_PEAK WAVE LEN	GTH(nm) <u>653/568</u>
EMITTED COLOR:	Ultra Red / Green	VIEWING ANGLE	(deg): <u>45</u>
LENS COLOR:	White Diffused	_IV(mcd):	100/45

CUSTOMER ENGINEERING DEPARTMENT

LENOO ELECTRCNICS CO., LTD. **ENGINEERING DEPARTMENT**

(Authorized Signature)

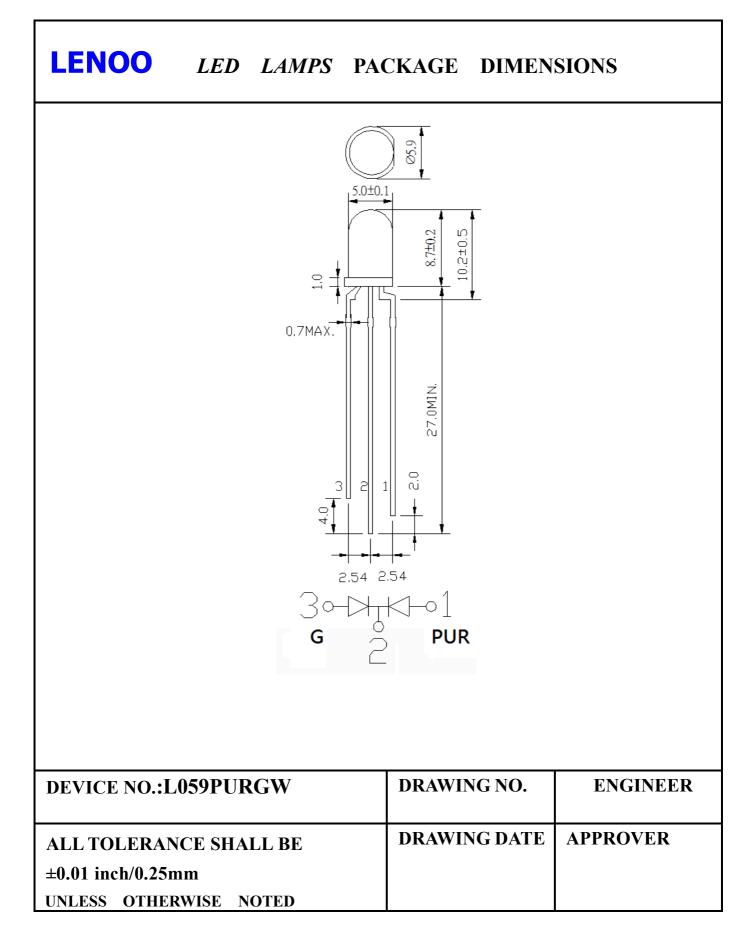
 APPROVED DATE_____
 ISSUED DATE_____

LENOO ELECTRONICS CO., LTD.

TYPE NO. : L059PURGW

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST
			PUR/G			
Luminous Intensity	IV	70/30	100/45	150/55	mcd	
Viewing Angle	201/2		45		deg	IF = 20mA
Peak Emission Wavelength	λp		653/568		nm	
Dominant Wavelength	λd		640/570		nm	
Spectral Line Half-Width	Δλ		20/30		nm	
Forward Voltage	VF	1.8/1.8	2.0/2.2	2.4/2.5	V	
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty1/10 @ 1KHZ)	IF (Peak)			100	mA	
Forward Current	IF		20		mA	

Reverse Voltage	: 5 Volt
Reverse Current	: 10 uA (VR=5V)
Operating Temperature Range	: -40°C TO 85°C
Storage Temperature Range	: -40°C TO 100°C
Lead Soldering Temperature Range	,
1.6 mm (1/16 inch) from body	: 260°C For 5 Seconds

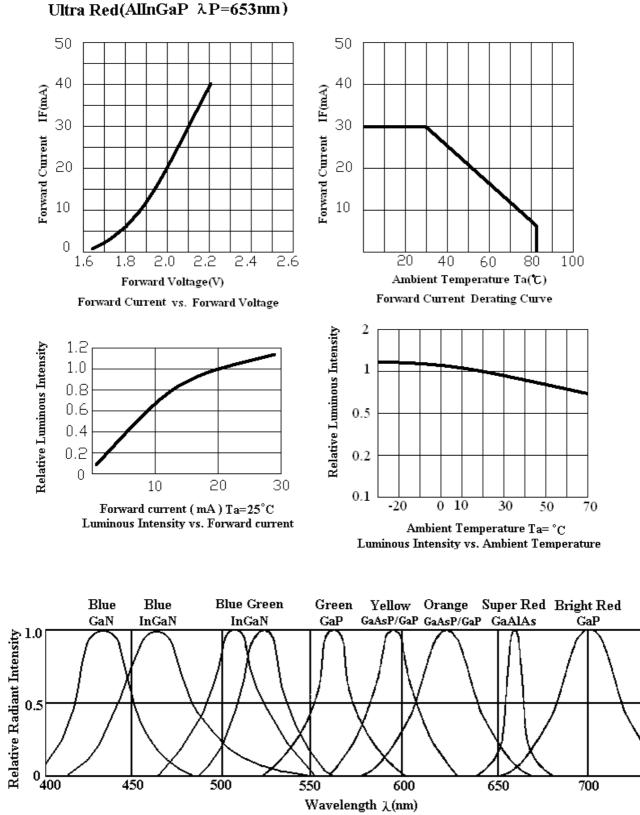


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Typical Electro-Optical Characteristics Curves



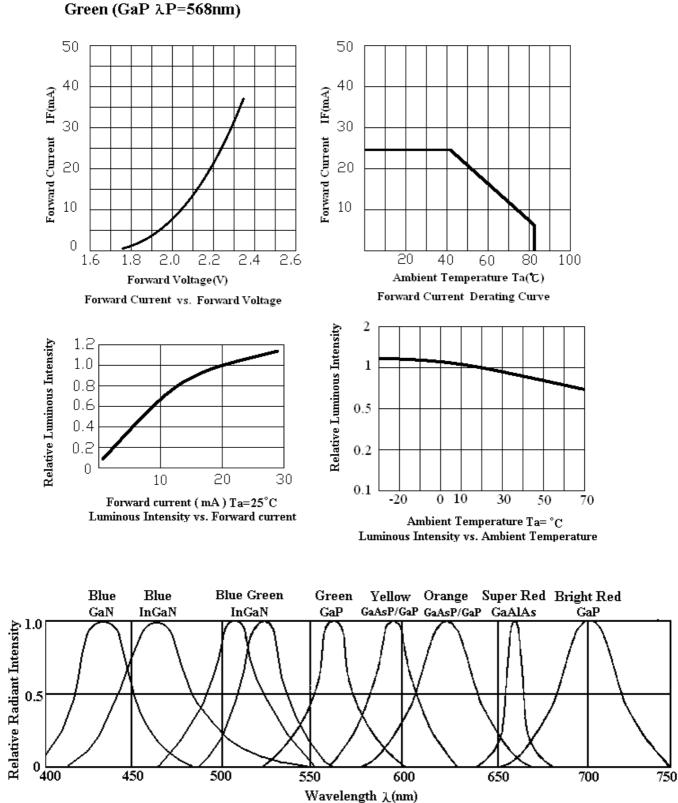
RELATIVE INTENSITY VS. WAVELENGTH

750

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LENOO ELECTRONICS CO., LTD.

Typical Electro-Optical Characteristics Curves



Wavelength کر(nm) RELATIVE INTENSITY VS. WAVELENGTH

Reliability test For LED Lamps

Type No. :L059PURGW

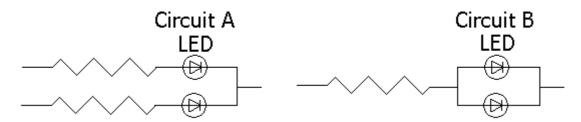
NO.	Item	Test Conditions	Test Time/ Cycle	Sample Size	Ac/Re
1	DC Operating Life	Temperature:25℃ IF:20mA	1000HRS	20PCS	0/1
2	High Temperature High Humidity	Temperature:85℃ 85%RH	1000HRS	20PCS	0/1
3	High Temperature Storage	Temperature:100°C	1000HRS	20PCS	0/1
4	Low Temperature Storage	Temperature: -40°C	1000HRS	20PCS	0/1
5	Temperature Cycling	85°C∼25°C∼−35°C 15min~ 5min~ 15min	15Cycles	20PCS	0/1
6	Thermal Shock	85°C∼25°C∼−10°C 5min~10sec ~ 5min	15Cycles	20PCS	0/1
7	Solder Heat	Temperature:260°C±5°C	10SEC.	20PCS	0/1

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Precautions For Use LED

1. Drive Method

LED is current-operated device. In order to ensure intensity uniformity on multiple LEDs connected in parallel in a application, it is recommended that a current limiting resistor be incorporated in the drive circuit.



- (a) Circuit A it is recommended circuit.
- (b) Circuit B the brightness of each LED might appear different due to the differences in the I-V characteristics of those LEDs.

2. Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change(Burn out will happen).

3. Storage

The Storage Temperature and RH are: 5° C ~ 30° C, RH 60% or less.

Once the package is opened, the products should be used with in a week. Otherwise, they should be kept in moisture proof package with moisture absorbent material (silica gel). we suggest our customers to use our products within a year.

If the moisture absorbent material (silica gel) has faded away or the LEDs exceeded the storage time, baking treatment should be performed using the following conditions.

Baking treatment: more than 24 hours at 60° C ±5°C.

4. Electrostatic Discharge (ESD)

Static electricity or surge voltage will damage the LEDs Suggestions to prevent ESD damage:

Use of a conductive wrist band or ante-electrostatic glove when handing these LEDs

All devices, equipment, and machinery must be properly grounded.

Work tables storage racks, etc. should be properly grounded

In the events of manual working in process, make sure the devices are well protected from ESD at any time.

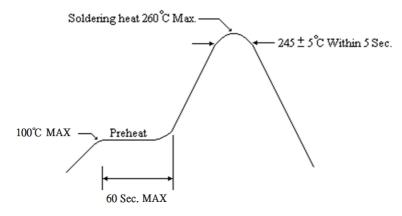
5. Others

- (a) If want to have the uniform luminance and color, please use the same binning number, and avoid using intermix to cause the differences of luminance and color.
- (b) The appearance and specifications of the product may be modified for improvement without prior notice.

6. Soldering

Recommended soldering condition as shown below:

Soldering heat (DIP)



Soldering Iron Temperature at tip of iron : 350° C Max. Soldering Time: 3 sec. ± 1 sec. (one time only) If temperature is higher, time should be shorter

Reflow Temp./Time(SMD)

