

SPECIFICATION FOR GoPro LED LAMP

Part No.: **GPG2605**

Customer No.:

REV:1.0

RECEIVED	
<input checked="" type="checkbox"/>	MASS PRODUCTION
<input type="checkbox"/>	PRELIMINARY
<input type="checkbox"/>	CUSTOMER DESIGN
DEVICE NUMBER :	
PAGE:	3
CUSTOMER'S APPROVAL	

Designed By	Checked By	Approved By
王鹏	蔡智强	张承宗
2018-12-18	2018-12-18	2018-12-18



www.gpelec.com

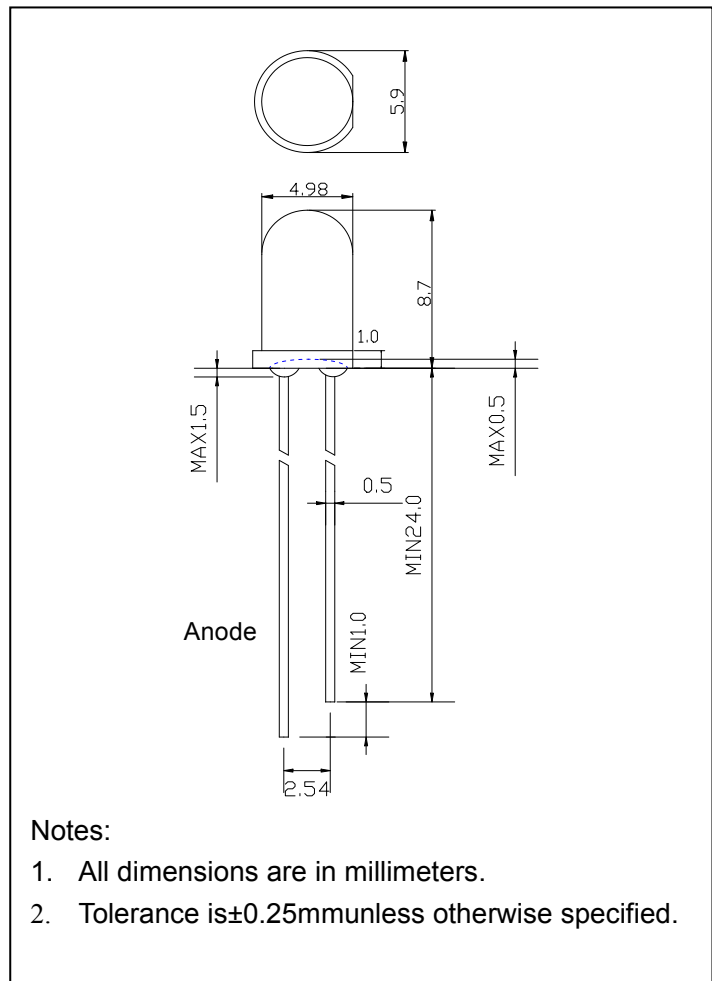
● Features:

1. Chip material: GaP/AlGaInP
2. Emitted color: Green
3. Lens Appearance: Green Diffused
4. Low power consumption.
5. High efficiency.
6. Low current requirement.
7. This product don't contained restriction substance, compliance RoHS standard.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Package dimensions:



● Absolute maximum ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Forward Current	I _F	30	mA
Peak Forward Current* ₁	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{opr}	-40~80	°C
Storage Temperature	T _{stg}	-40~85	°C
Soldering Temperature	T _{sol}	260(for 5 seconds)	°C
ESD(Human Body Model)	HBM	6000	V

*₁Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width

● Electrical and optical characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	1.70	2.20	2.60	V
Luminous Intensity	I_V	$I_F=20\text{mA}$	25	60	-	mcd
Reverse Current	I_R	$V_R=5\text{V}$	-	-	10	μA
Peak Wave Length	λ_p	$I_F=20\text{mA}$	-	569	-	nm
Dominant Wave Length	λ_d	$I_F=20\text{mA}$	565	568	575	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20\text{mA}$	-	20	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	60	-	deg

* Tolerance of Luminous Flux: $\pm 10\%$

* Tolerance of Forward Voltage: $\pm 0.1\text{V}$

* Tolerance of Dominant Wavelength: $\pm 1\text{nm}$

● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

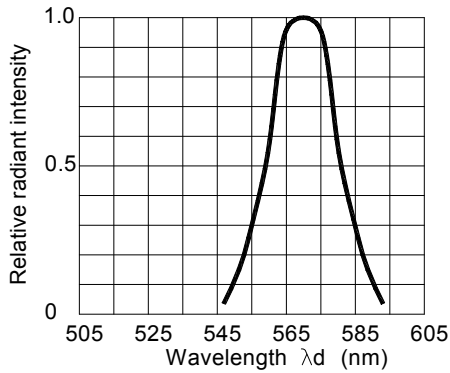


Fig.2 Forward current derating curve vs. Ambient temperature

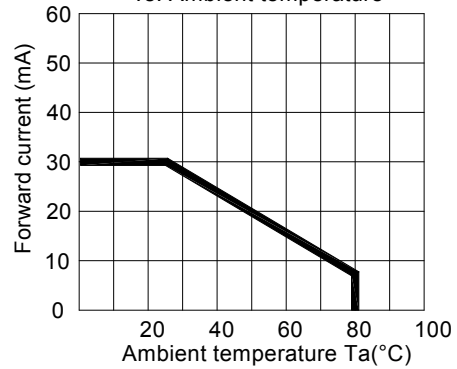


Fig.3 Forward current vs. Forward voltage

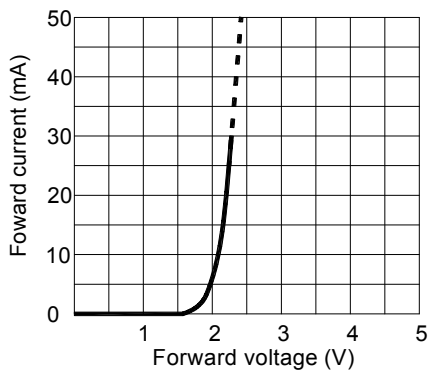


Fig.4 Relative luminous intensity vs. Ambient temperature

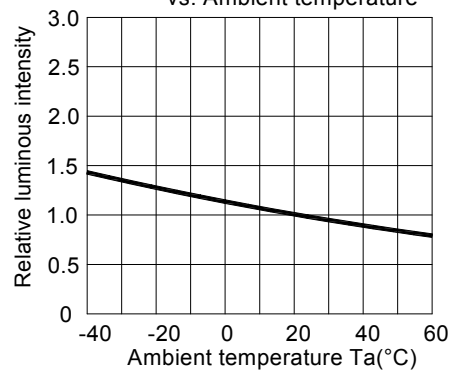


Fig.5 Relative luminous intensity vs. Forward current

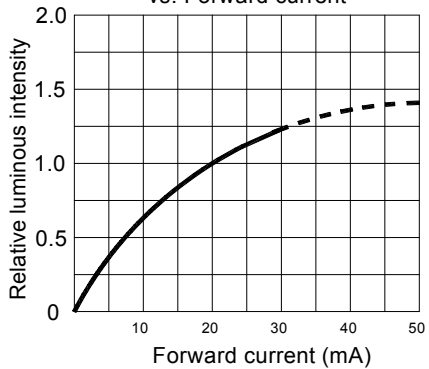


Fig.6 Radiation diagram

