

SPECIFICATION FOR GoPro LED LAMP

Part No.: **GPR2608/R017**

Customer No.:

REV:1.0

RECEIVED	
☒	MASS PRODUCTION
☐	PRELIMINARY
☐	CUSTOMER DESIGN
DEVICE NUMBER :	
PAGE:	3
CUSTOMER'S APPROVAL	

Designed By	Checked By	Approved By
王鹏	蔡智强	张承宗
2018-12-26	2018-12-26	2018-12-26



www.gpelec.com

Tel: 86-592-5743660 Fax: 86-592-5621415

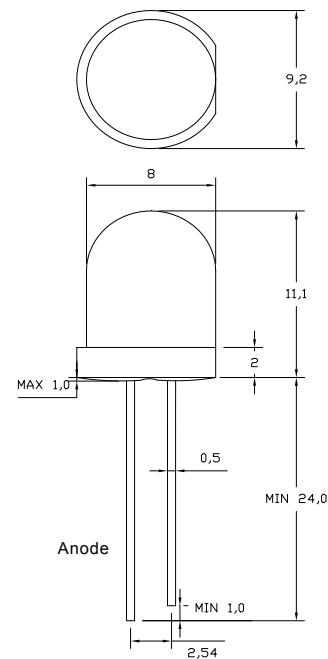
● Features:

1. Chip material: [GaP](#)
2. Emitted color: [Red](#)
3. Lens Appearance: [Red 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:



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.25 mm unless otherwise specified.

● Absolute maximum ratings($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Rating	Unit
Power Dissipation	P_d	75	mW
Forward Current	I_F	25	mA
Peak Forward Current* ₁	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40~80	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40~85	$^{\circ}\text{C}$
Soldering Temperature	T_{sol}	260(for 5 seconds)	$^{\circ}\text{C}$
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 =20mA	1.7	2.0	2.6	V
Luminous Intensity	I _v	I _F =20mA	30	70	150	mcd
Reverse Current	I _R	V _R =5V	-	-	10	μA
Peak Wave Length	λ _p	I _F =20mA	-	627	-	nm
Dominant Wave Length	λ _d	I _F =20mA	620	625	630	nm
Viewing Angle	2θ1/2	I _F =20mA	-	35	-	deg

● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

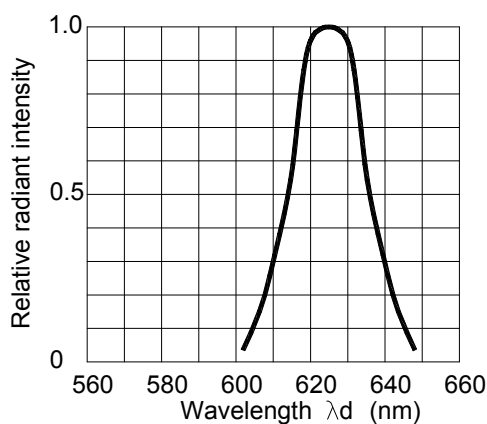


Fig.2 Forward current derating curve vs. Ambient temperature

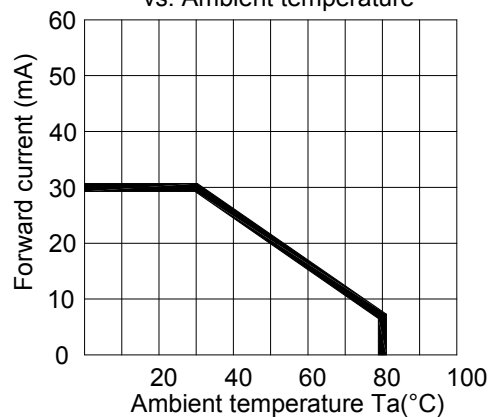


Fig.3 Forward current vs. Forward voltage

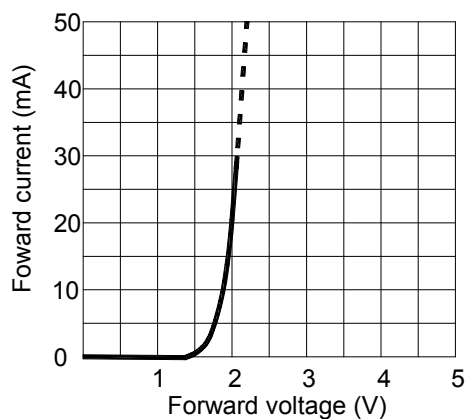


Fig.4 Relative luminous intensity vs. Ambient temperature

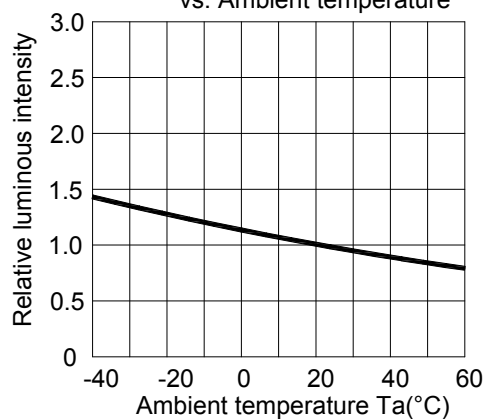


Fig.5 Relative luminous intensity vs. Forward current

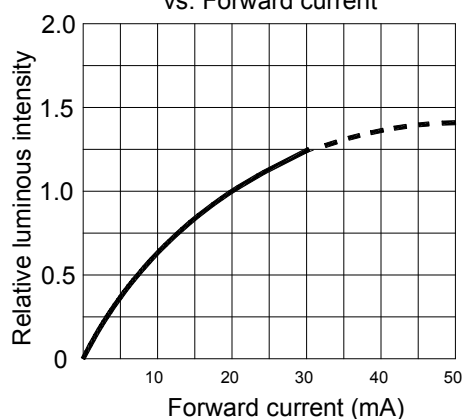


Fig.6 Radiation diagram

