Opto Plus LED Corp.

OPL-3014PGD-60

3 mm Dia LED Lamp

● EDIT HISTORY

Version A : Feb. 17, 2021

Preliminary Spec.

Opto Plus LED Corp. 7F-3, No.496 , Bannan Road, Jhonghe Dist., New Taipei City 235, Taiwan (R.O.C)
Website: www.opledtw.com E-mail: sales@opledtw.com Tel: 886-2-2222-5698 Fax: 886-2-2222-2566

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www.opledtw.com

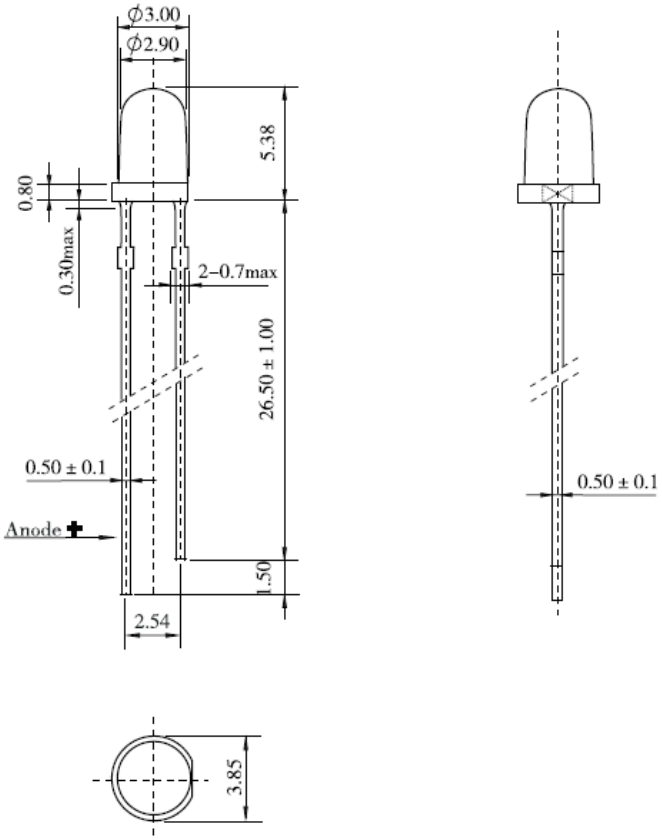
FEATURES

- Low power consumption.
- High efficiency
- Round type
- With Flange
- Solder leads without stand-off
- Compliant with RoHs

DESCRIPTION

- Chip Material : InGaN/GaN
- Emitting Color : Pure Green
- Lens Color : Green Diffused

PACKAGE DIMENSIONS



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NOTES: All dimensions are in millimeters. Tolerances are± 0.25 mm unless otherwise noted.

● PG: PURE GREEN (InGaN/GaN)

ABSOLUTE MAXIMUM RATING AT Ta=25°C

Parameter	Symbol	Maximum Rating	Unit
Power dissipation	P_{AD}	120	mW
Reverse voltage	V_R	5	V
Continuous forward current	I_{AF}	30	mA
Temperature cofficent	I/C	0.4	mA/°C
Pulse current	I_{PF}	100	mA
Operating temperature	T_{OPR}	-25 to +85	°C
Storage temperature	T_{STG}	-30 to +100	°C
Soldering Condition	Tsd	260℃/5set	°C

ELECTRICAL - OPTICAL CHARACTERISTICS AT Ta=25°C

Characteristic	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_F	I_F =20mA	-	3.2	3.6	V
Reverse current	I_R	V_R =5V	-	-	50	μA
Peak wavelength	λ_P	I_F =20mA	-	525	-	nm
Dominant wavelength	λ_D	I_F =20mA	-	520	-	nm
Luminous intensity	I_V	I_F =20mA	-	1800	-	mcd
Spectral radiation bandwidth	$\Delta\lambda$	I_F =20mA	-	30	-	nm
Viewing Angle	$2\theta_{1/2}$	I_F =20mA	-	60	-	deg

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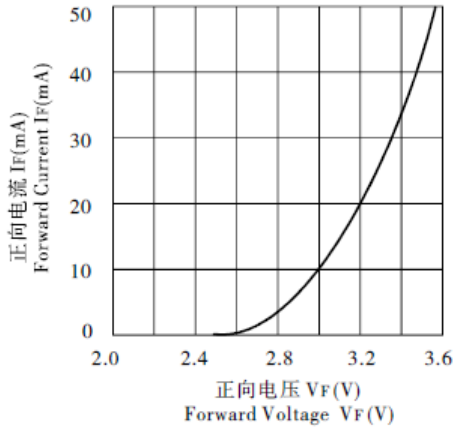
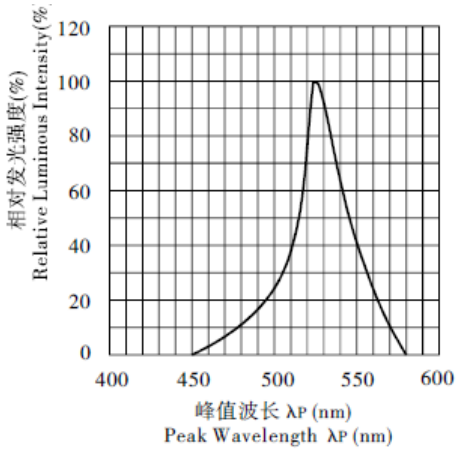
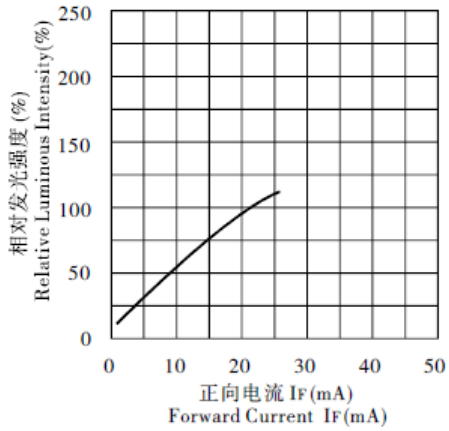
● PG: PURE GREEN (InGaN/GaN) CURVE

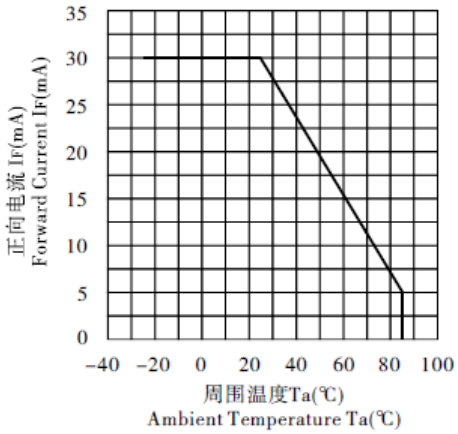
Typical Electro-optical Characteristic Curves

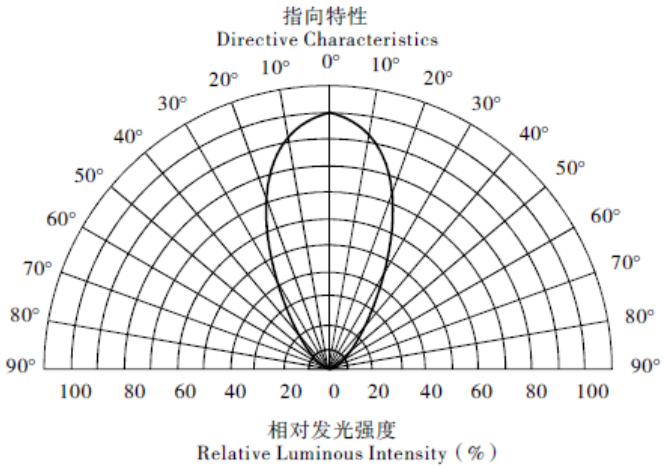
(25 ℃ Free Air Temperature Unless Otherwise Specified)











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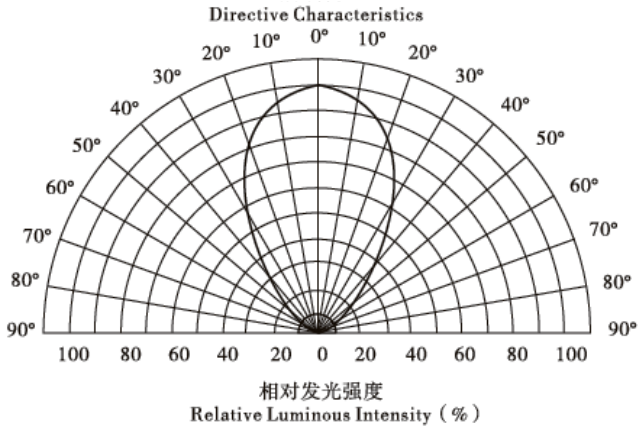
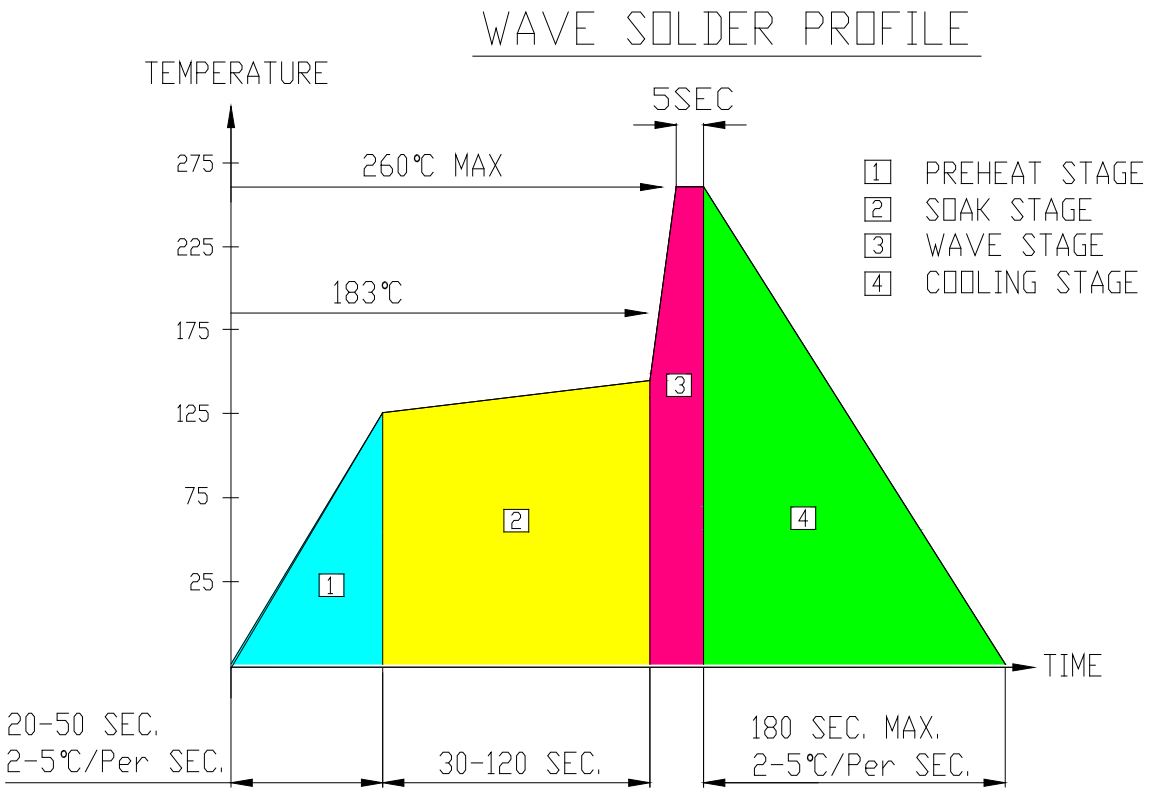


● RECOMMEND SOLDERING PROFILE



● Note:

- Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- Peak wave soldering temperature between 245°C ~ 225°C for 3 sec (5 sec max)
- No more than one wave soldering pass

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SOLDERING IRON

Basic spec is ≦4 sec when 260°C. If temperature is higher, time should be shorter (+10°C→1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

REWORK

Customer must finish rework within ≦3 sec under 350℃.

The head of soldering iron cannot touch copper foil.

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