

FYLS- 0603BPGC

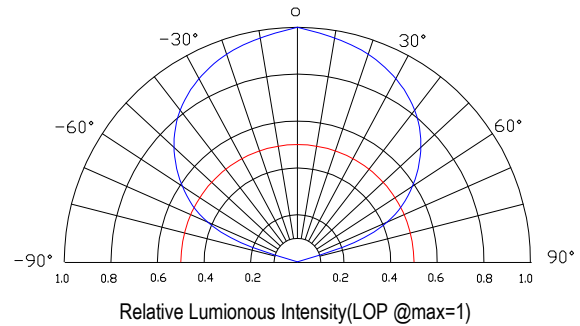
Features:

- Compatible with automatic placement equipment.
- Compatible with reflow solder process.

Applications:

- Automotive-Telecommunication.
- Indicators.
- Water clear
- Illuminations.

Radiation pattern.



Descriptions:

- Dice material: InGaN
- Emitting Color: Super bright Pure Green
- Lens Color: Water clear.

Absolute maximun ratings(Ta=25 °c)

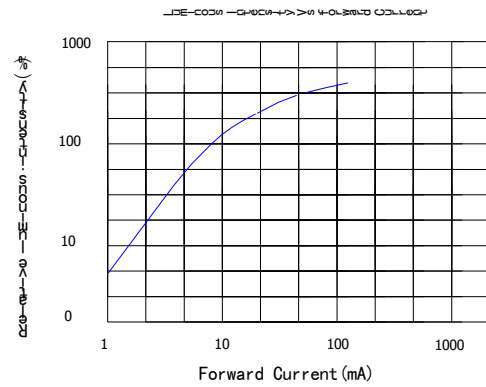
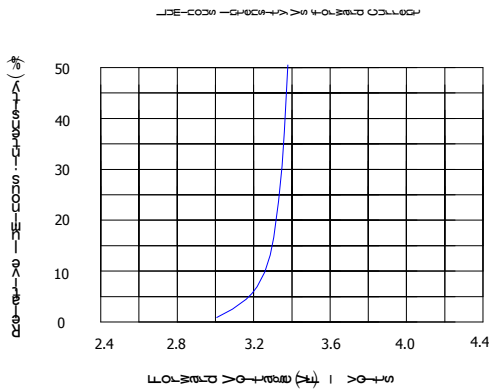
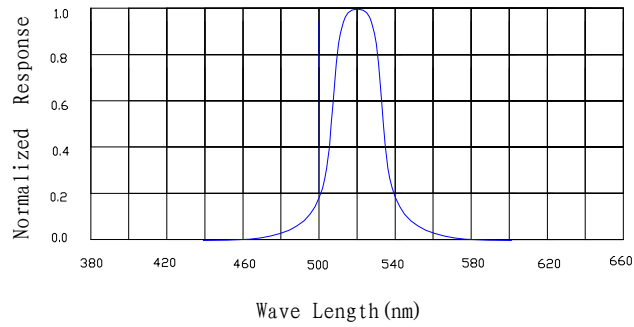
Parameter	MAX.	Unit
Power Dissipation	70	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	mA
Derating Linear From 25℃	0.4	mA/℃
Operating Temperature Range	-30℃ to +80℃	
Storage Temperature Range	-40℃ to +85℃	

Electrical and optical characteristics(Ta=25 °c)

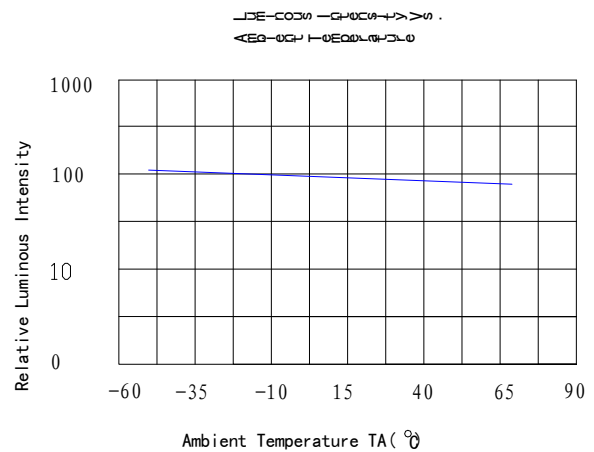
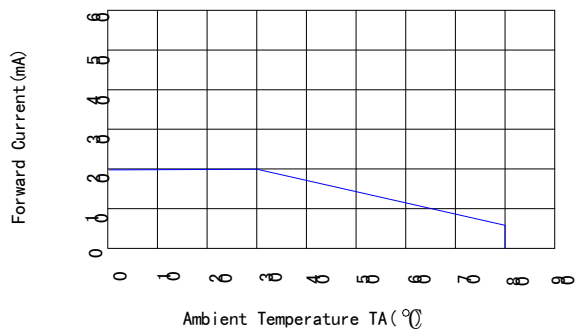
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	IV	L12	145	-	180	mcd
		M1	180	-	225	
		M2	225	-	285	
Viewing Angle	2θ1/2	120	130	140	Deg	IF=20mA
Peak Emission Wavelength	λp	515	520	525	nm	
Dominant Wavelength	λd	520	-	525	nm	
Spectral Line Half-Width	Δλ	25	30	35	nm	
Forward Voltage	VF		3.3	3.5	V	
Reverse Current	IR			10	μA	VR=5V

Typical Electrical Characteristics Curves (25 °c Ambient Temperature Unless Otherwise Noted)

Spectral Reduance



Forward Current Derating Curve



◆ Precautions For Use

- Over-current-proof

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

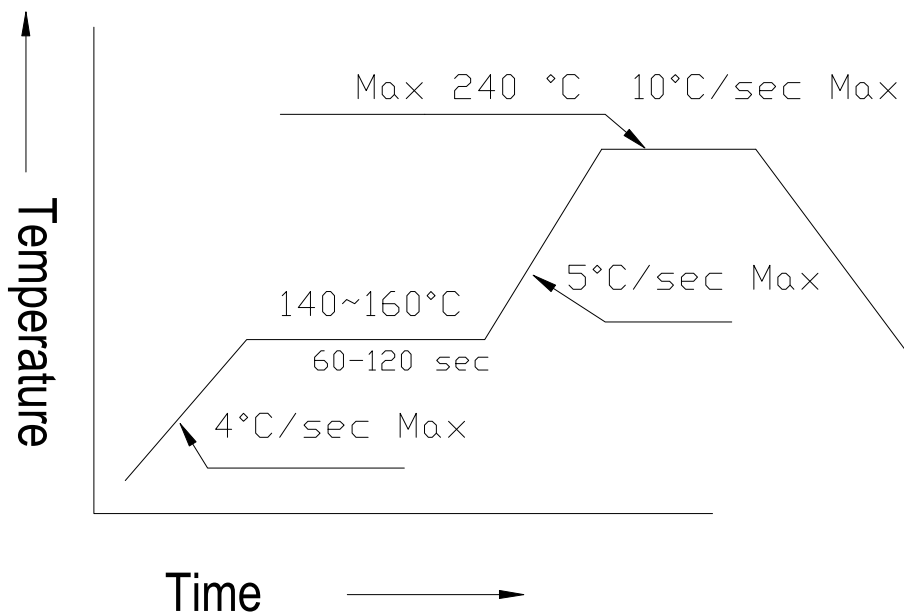
- Storage

1. The operation of temperature and R.H are: $5^{\circ}\text{C} - 30^{\circ}\text{C}$, R.H. 60% Max.
2. Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a damp proof box with desiccating reagent. Considering the tape life, we suggest our customers to use our products within 1.5 year (from production date).
3. It's recommended to bake before soldering when the package is unsealed after 72 hrs. The condition is: $60^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 15 hrs.

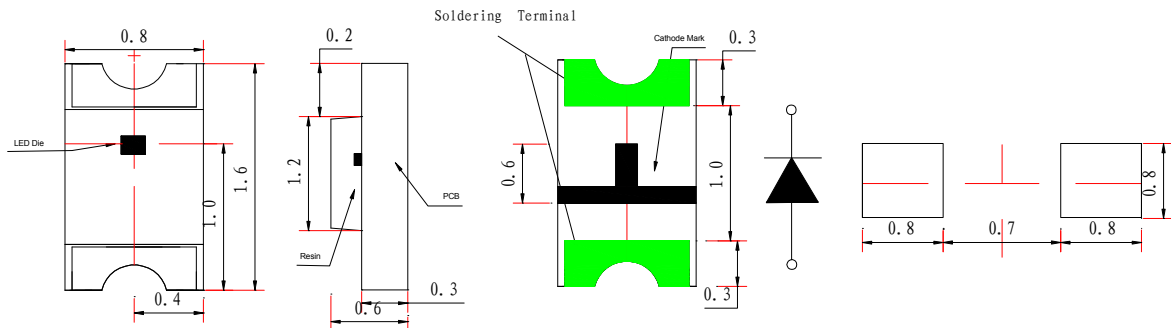
◆ Soldering Iron:

- Temperature at tip of iron: 300°C Max. (25W Max)
- Soldering time: 3 ± 1 sec.

◆ Reflow Temp./Time:



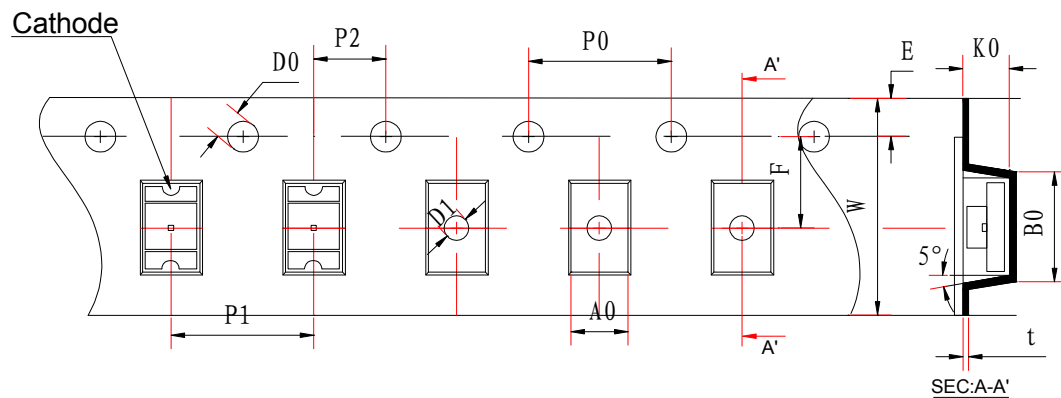
◆ Package Dimensions of Device



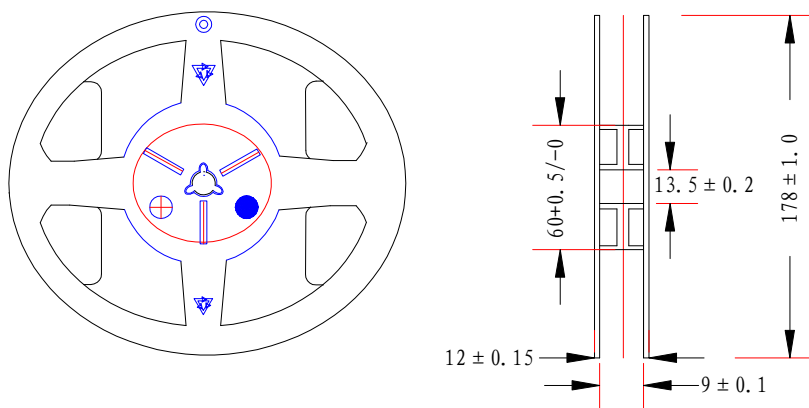
Unit:mm

◆ **Tape Specification:3000pcs Per Reel.**

Item	W	P1	E	F	D0	D1	P0	Unit
Spec.	8.00	4.00	1.75	3.50	1.50	0.5	4.00	mm
Tolerance	±0.20	±0.10	±0.10	±0.05	+0.1/-0	±0.05	±0.05	mm
Item	10P0	P2	A0	B0	K0	T		Unit
Spec.	40.00	2.00	0.95	1.80	0.60	0.20		mm
Tolerance	±0.20	±0.05	±0.10	±0.10	±0.10	±0.05		mm



◆ **Package Dimensions & Reel:**



Unit:mm

◆ Packing and Shipping Spec.

