Model. No.	FYLS-0402PGC
Rev.	A

PRODUCT SPECIFICATION

Model No.：FYLS-0402PGC

Features:

- SMD Type
- Size (mm):1.0*0.5*0.35
- Emitting Color:Pure Green
- SMT package
- Suitable for all SMT assembly and soldering method
- Pb-free Reflow soldering application
- RoHS Compliant

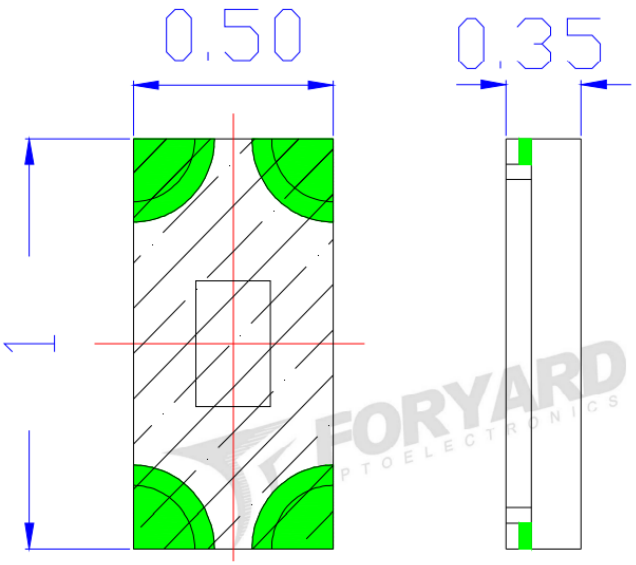
NEW

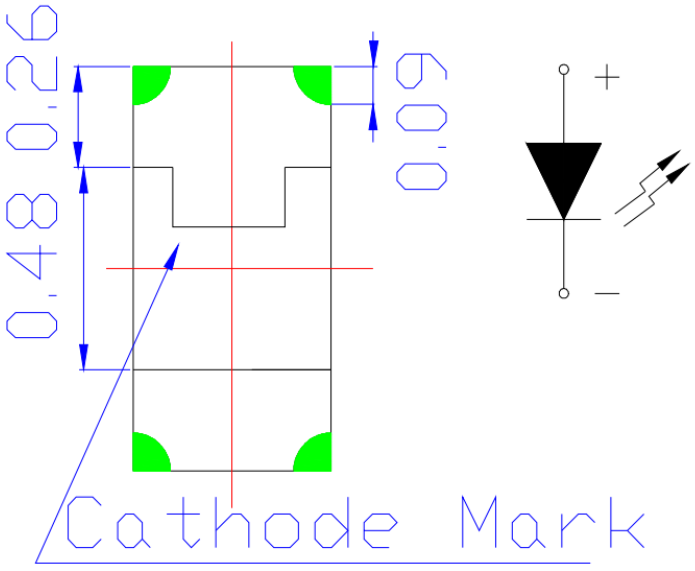
Applications:

- Light Strips
- LCD Backlight
- Decorative lighting
- Indicators
- Interior automotive
- Illuminations
- Mobile Phones

Model No.：FYLS-0402PGC

■ Mechanical Dimensions





Notes:

1. Dimension in millimeter [inch], tolerance is ±0.25 [.010].

2.The specifications,characteristics and technical data described in the datasheet are subject to change without prior notice.

■ Absolute Maximun Ratings(Ta=25° C)

Items	Symbol	Absolute maximum Rating	Unit
Forward Current(DC)	IF	30	mA
Peak Forward Current*	IFP	100	mA
Power Dissipation	PD	100	Mw
Operation Temperature	Topr	-30° C～+80° C	℃
Storage Temperature	Tstg	-40°C～+100°C	℃
Reverse Voltage	VR	5	V
Soldering Temperature	Tsol	Reflow Soldering:250℃/5sec	

***Pulse width≦1msec duty≦1/10**

■ Typical Electrical &Optical Charcteristics(Ta=25°C)

Items	Symbol	Condition	Min.	Typ.	Max	Unit
Forward Voltage	VF	IF = 20mA	2.80	---	3.60	V
Reverse Current	IR	VR = 5V			10	uA
Peak Emission Waveleng	λp	IF = 20mA		520		nm
Dominant Wavelength	λD	IF = 20mA		525		nm
Luminous Intensity	IV	IF = 20mA		360		mcd
50% Power Angle	2θ½	IF = 20mA	---	130	---	Deg

■ Material

Item	Reflector	Wire	Encapsulate	Chip
Material	/	Gold	Silicone	InGaN

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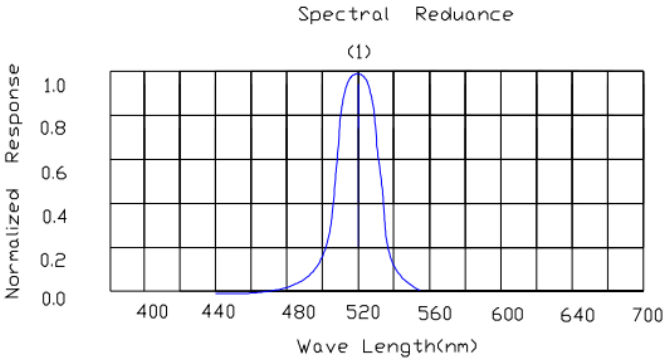
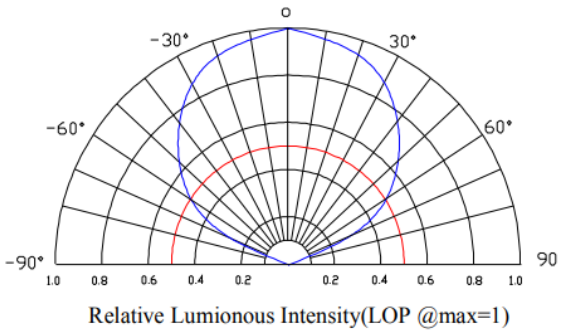
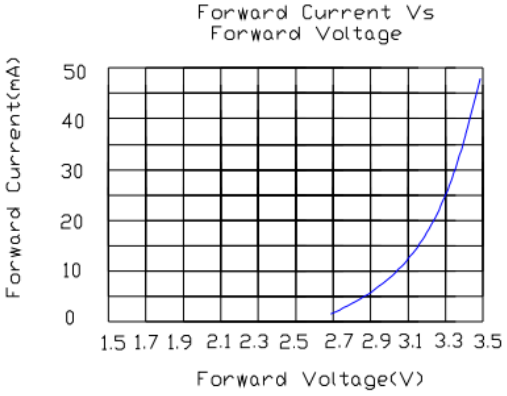
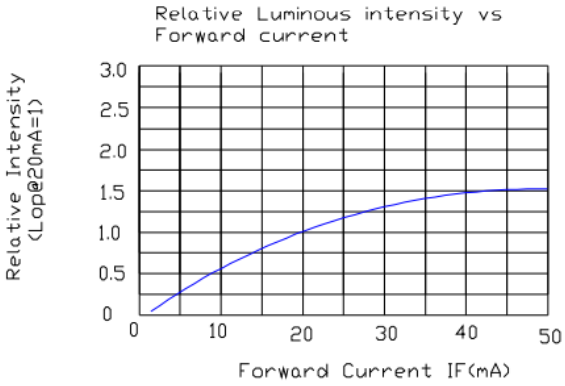
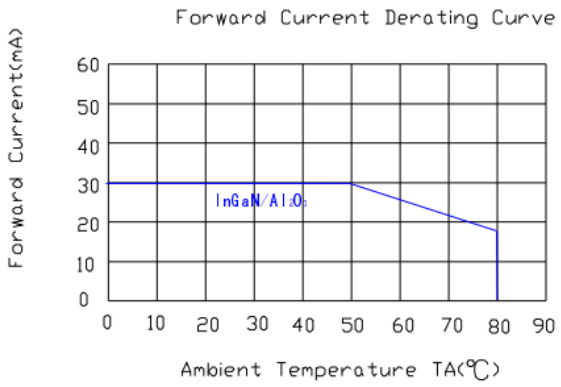
■ Typical Eletrical/Optical Characteristics Curves(Ta=25° C Unless Otherwise Noted)

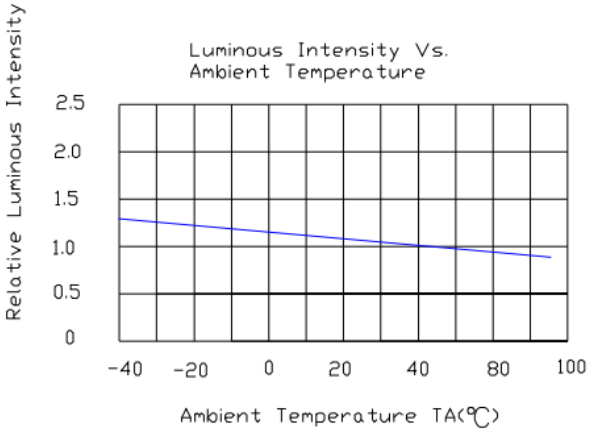












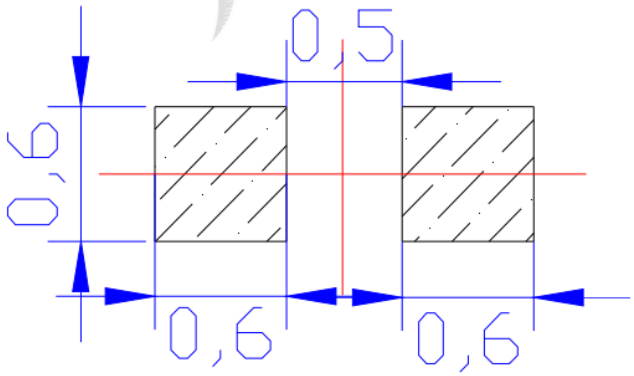
Solder=Sn63-Pb37	Solder= Pb-Free
Average ramp-up rate:4℃/sec.max	Average ramp-up rate:4℃/sec.max
Peak preheat temperature:100-150℃	Peak preheat temperature:100-150℃
preheat time:100seconds.max	preheat time:100seconds.max
ramp-down rate:6℃/sec.max	ramp-down rate:6℃/sec.max
Peak temperature:230℃	Peak temperature:250℃
Time within 5℃ of actual peak temperature=10 sec. max	Time within 5℃ of actual peak temperature=10 sec. max
Duration above 183℃ is 80 sec. max	Duration above 217℃ is 80 sec. max

SMD LED should not be modified after soldering. If modification cannot be avoided, the modification must be pre-qualified to avoid damage to the SMD LEDs.

Reflow soldering should not be done more than one time

No stress should be exerted on the package during soldering.

(3) Recommend Soldering pad design(unit=mm)



3. Static Electricity

Static Electricity and surge voltage damage the LEDs. So it is recommended that an ESD wrist band, ESD shoe strap or an anti-electrostatic glove be used when handling the LEDs.

All devices, equipment and machinery must be properly grounded

4. Others

Reverse voltage should not exceed the absolute maximum rating on the data sheet. The colour of the LEDs is changed slightly an operating current and thermal.

This device should not be used in any type of fluid such as water, oil, organic solvent and etc

When washing is required, IPA (Isopropyl Alcohol) should be used.

The influence of ultrasonic cleaning on the leds depends on factors such as ultrasonic power and the way.

High-brightness LED light may injure human eyes. Avoid looking directly into lighted LED

The appearance and specifications of the product may be modified for improvement without notice.