

#### FYLS - 3528PGC

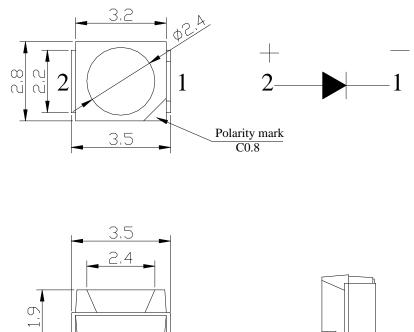
Features:

- Single color
- Suitable for all SMT assembly and solder process.
- Available on tape and Reel.
- Package : 2000pcs/ Reel.

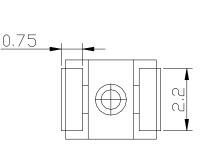
Description.

- The green source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide pure green Light Emitting Diode.
- It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.
- All devices equipment and machinery must be electrically grounded.

#### **Package Dimensions**



0.5



#### Notes:

- 1. All dimension units are millimeters (Inches)
- 2. All dimension tolerance ±0.2mm unless otherwise noted.
- 3. An epoxy meniscus may extend about 1.5mm down the leads.



#### **Selection Guide**

Part No.	Dice	lens type	IV(mcd)	Viewing Angle	
			Min	Тур	<b>20</b> 1/2
FYLS-3528PGC	Green(InGaN)	Water clear	—	1500	120

### Electrical/Optical Characteristics at Ta=25 °c

Symbol	Parameter	Device	min.	typ.	units	test conditions
λd	Dominate wavelength	Green	515	520	nm	IF=20mA
VF	Forward Voltage		3.0	3.2	V	IF=20mA
IR	Reverse Current			5	μA	VR=5V
С	capactiance			100	PF	VF=0V,f=1MHZ

### Absolute Maximum Ratings At= 25 °c

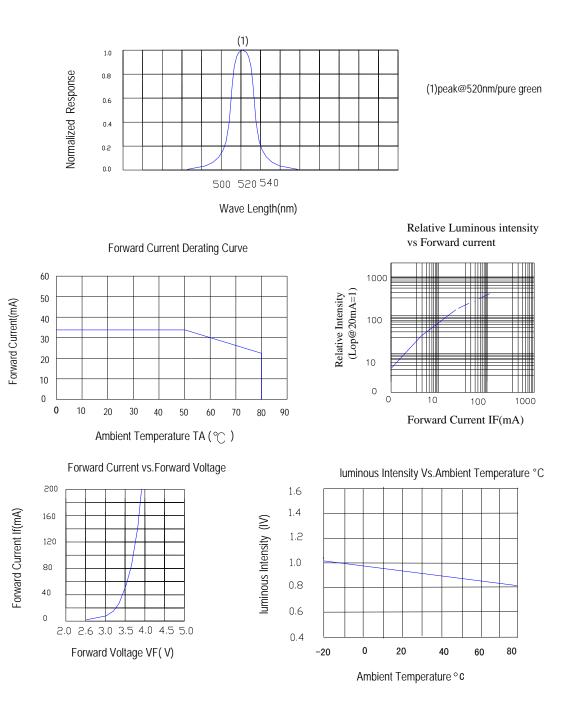
Parameter	White	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current(1)	100	mA	
Reverse Voltage	5	v	
Operating/storage Temperature	-40℃ to +85℃		

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



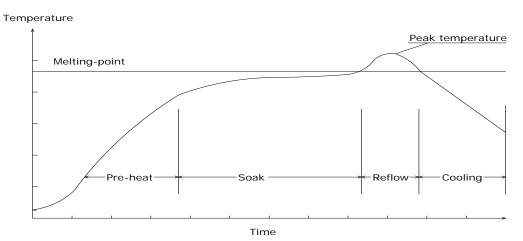
# Typical Electrical/Optical Characteristics Curves(Ta=25℃ Unless Otherwise Noted)





#### Precautions for use:

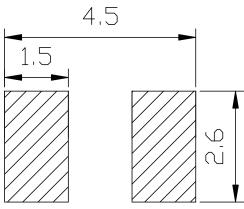
- 1. Suggest the LEDs should be kept between 5°C and 30°C and 60%RH or less before opening the package, The max. storage period before opening the package is 1 year.
- 2. After opening the package, the LEDs should be kept at 30°C/35%RH or less, and it should be used within 1 hours. In the event of incomplete usage, it is advised that user preheat the remaining devices at 60±5°C for 12 hours prior to use.
- 3. The temperature of manual of soldering not more then 300°C within 2 sec. The temperature of Reflow soldering not more then 260°C within 2 sec, should not be done more than twice. When soldering, don't tress on LEDs during heating. After soldering, don't warp the circuit board.
- 4. Repair should not be done after the LEDs have been soldered. When repair is unavoidable, double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will be damaged by repair or not.
- (1) Reflow soldering Temperature profile



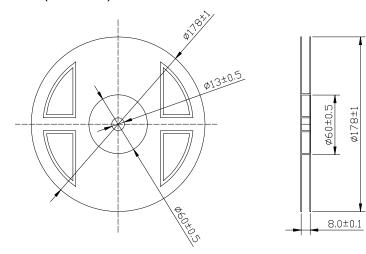
Solder=Sn63-Pb37	Solder= Pb-Free	
Average ramp-up rate:4°C/sec.max	Average ramp-up rate: 4°C/sec.max	
Peak preheat temperature: 100-150°C	Peak preheat temperature: 100-150°C	
preheat time: 100seconds.max	preheat time: 100seconds.max	
ramp-down rate:6℃/sec.max	ramp-down rate:6℃/sec.max	
Peak temperature: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

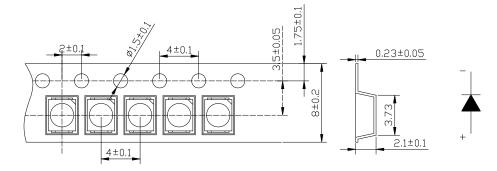


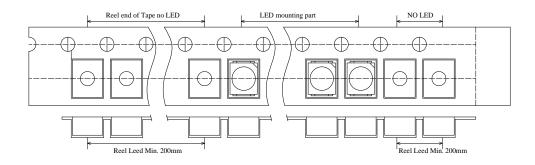
#### Recommended Soldering Pattern(Unit:mm)



Taping Dimension (Unit:mm)









### Packing and Shipping Spec.

