

### 1.0X0.5mm SMD CHIP LED LAMP

Part Number: APHHS1005CGCK GREEN

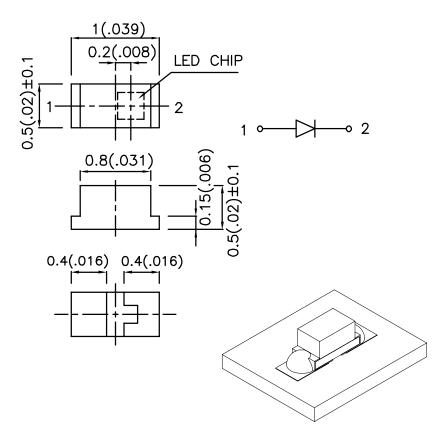
### **Features**

- •1.0mmX0.5mm SMT LED, 0.5mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE: 2000PCS / REEL.
- •MOISTURE SENSITIVITY LEVEL: LEVEL 3.
- •Rohs Compliant.

## **Description**

The Green source color devices are made with InGaAlP on GaAs substrate Light Emitting Diode.

## **Package Dimensions**



### Notes:

- All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.1(0.004")$  unless otherwise noted.
- 3. Specifications are subject to change without notice.
- 4. The device has a single mounting surface. The device must be mounted according to the specifications.





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## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
				Тур.	201/2
APHHS1005CGCK	GREEN (InGaAIP)	WATER CLEAR	10	40	120°

1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2.Luminous Intensity/ Luminous Flux: +/-15%

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	574		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	570		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	20		nm	IF=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.1	2.5	V	IF=20mA
lR	Reverse Current	Green		10	uA	VR = 5V

1.Wavelength: +/-1nm 2.Forward Voltage: +/-0.1V

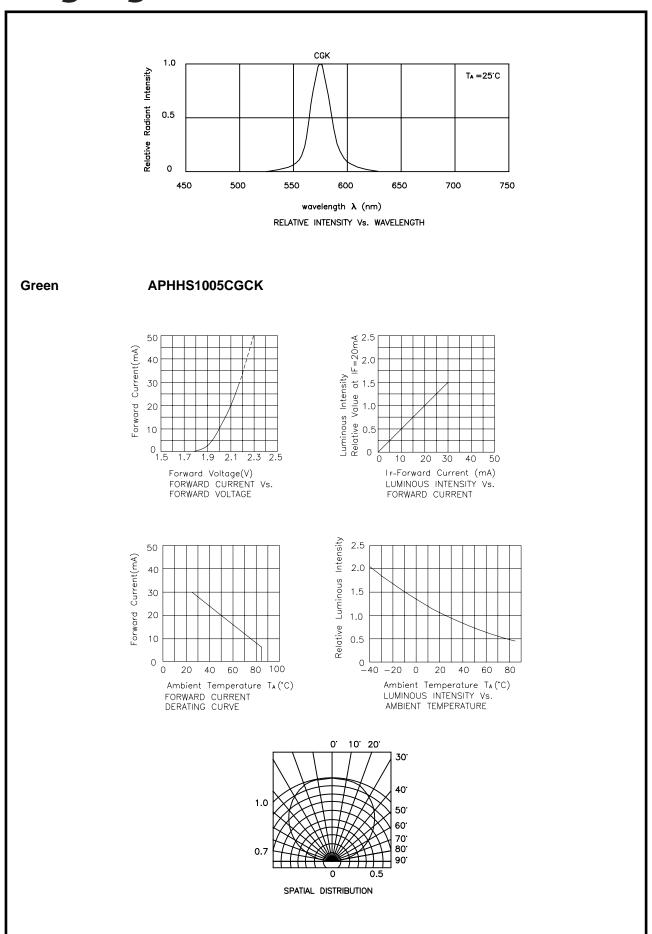
## Absolute Maximum Ratings at Ta=25°C

Parameter	Green	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

### Note:

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

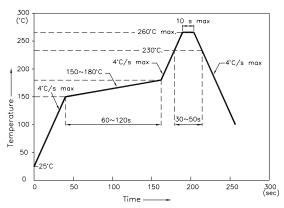
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## APHHS1005CGCK

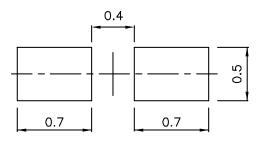
Reflow Soldering Profile For Lead-free SMT Process.



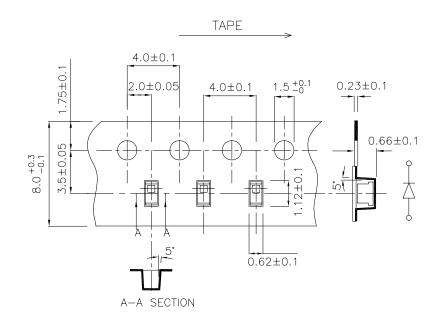
- NOTES:

  1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
  - 3. Number of reflow process shall be 2 times or less.

## **Recommended Soldering Pattern** (Units: mm; Tolerance: ±0.1)



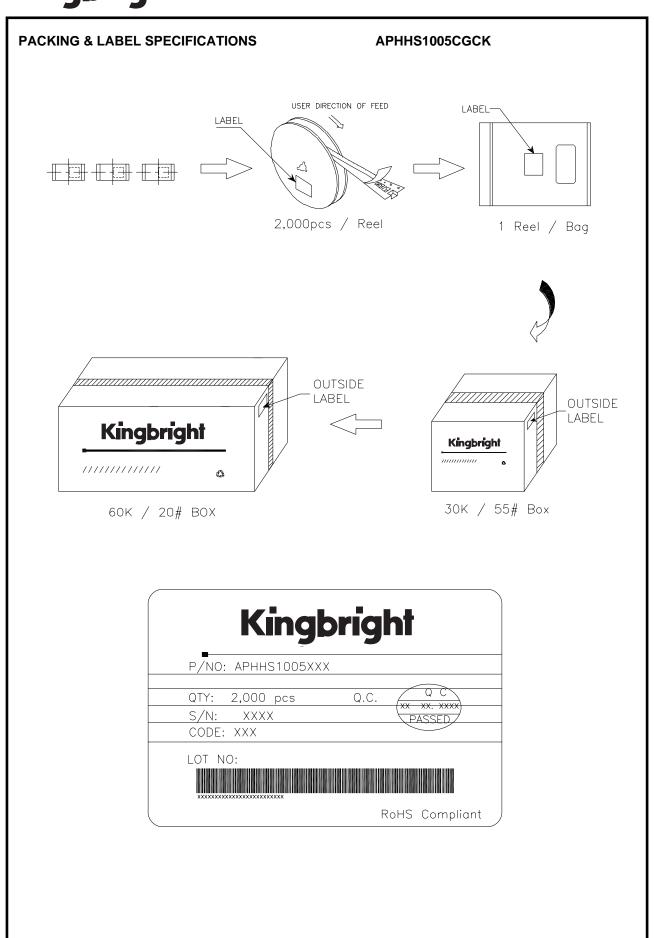
## **Tape Specifications** (Units: mm)



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