1.0X0.5mm SMD CHIP LED LAMP

Part Number: APHHS1005LZGCK-V Green



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

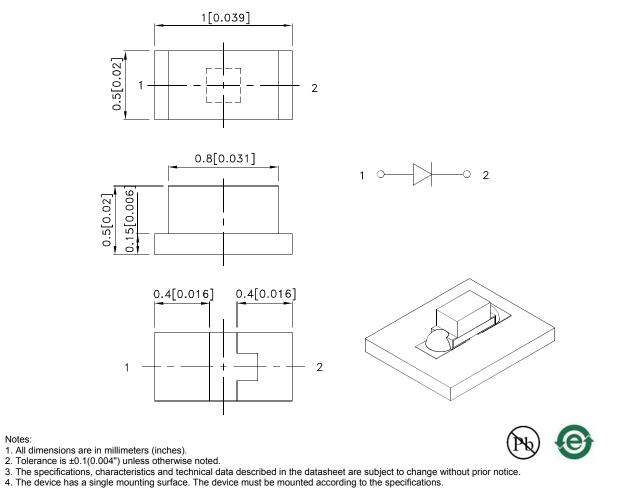
Features

- 1.0mmX0.5mm SMD LED, 0.5mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- Low current IF=2mA operating.
- RoHS compliant.

Descriptions

- The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions



SPEC NO: DSAO4043 APPROVED: Wynec REV NO: V.1B CHECKED: Allen Liu DATE: JUL/07/2015 DRAWN: F.T.Liu PAGE: 1 OF 5 ERP: 1203015124

Selection Guide

Ocicotion Guide					
Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Тур.	201/2
APHHS1005LZGCK-V	Green (InGaN)	Water Clear	20	40	120°

Notes:

1. θ 1 / 2 is the angle from optical centerline where the luminous intensity is 1 / 2 of the optical peak value.

2. Luminous intensity / luminous Flux: + / -15%.

3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green		515		nm	I⊧=2mA
λD [1]	Dominant Wavelength	Green		525		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Green		35		nm	I⊧=2mA
С	Capacitance	Green		45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.2	2.65	3	V	I⊧=2mA
IR	Reverse Current	Green			50	uA	VR=5V

Notes:

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

3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

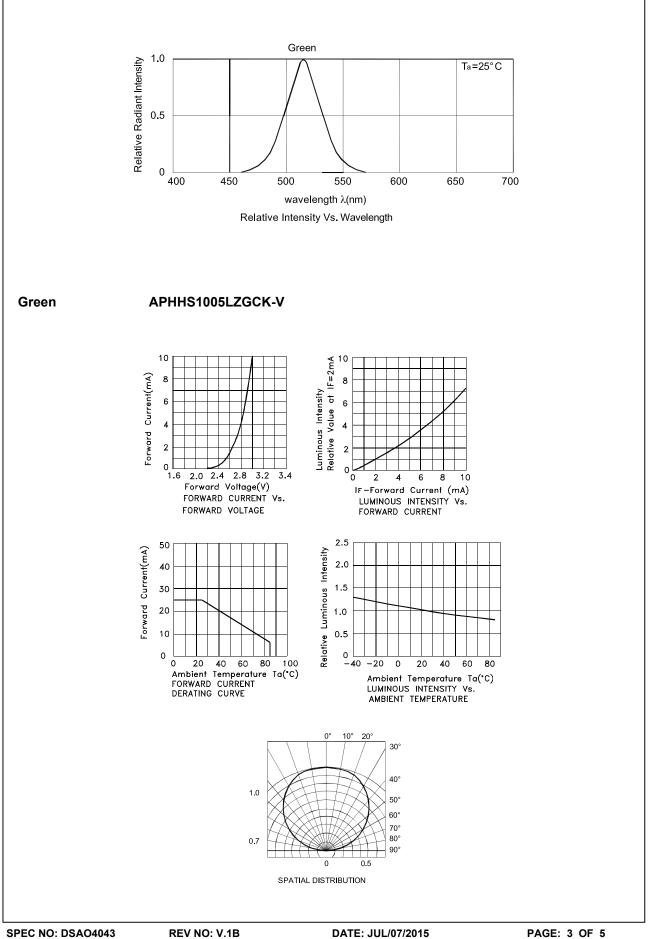
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units			
Power dissipation	75	mW			
DC Forward Current	25	mA			
Peak Forward Current [1]	150	mA			
Electrostatic Discharge Threshold (HBM)	450	V			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	age Temperature -40°C To +85°C				

Note:

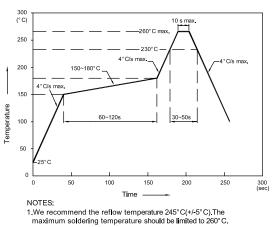
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APHHS1005LZGCK-V

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

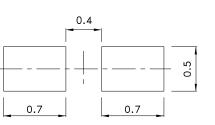




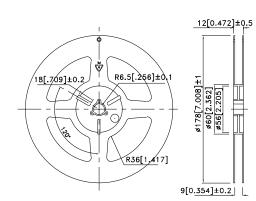
2 Don't cause stress to the epoxy resin while it is exposed

to high temperature. 3.Number of reflow process shall be 2 times or less.

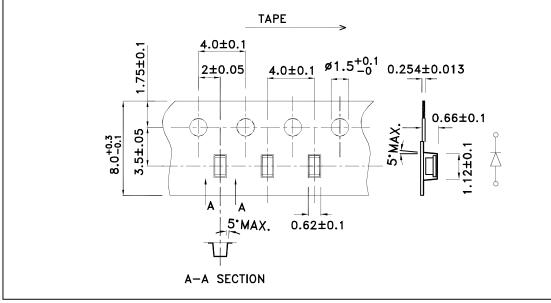
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)







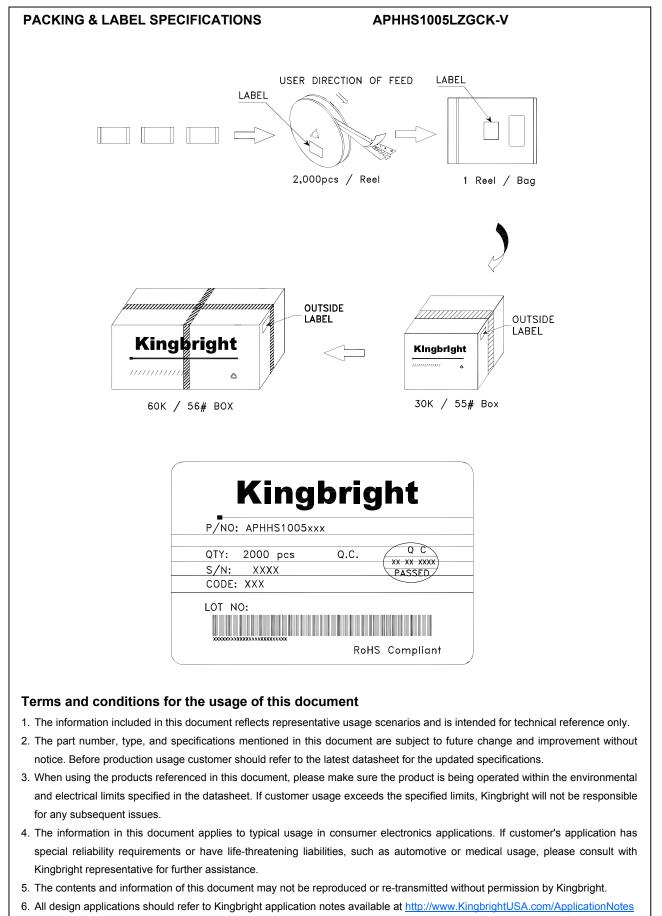
Tape Dimensions (Units : mm)



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