1.0X0.5mm SMD CHIP LED LAMP

Part Number: APHHS1005QWF/D White



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

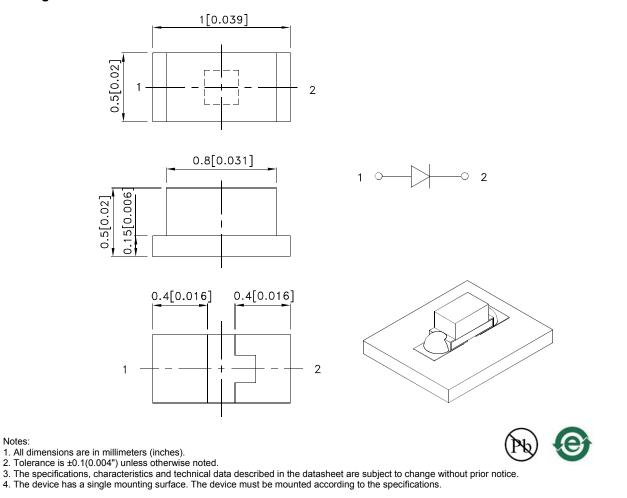
Features

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

Descriptions

- The source color devices are made with InGaN 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: DSAK0125 APPROVED: WYNEC REV NO: V.5B CHECKED: Allen Liu DATE: AUG/22/2014 DRAWN: Y.Liu

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Selection Guide

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APHHS1005QWF/D	White (InGaN)	Yellow Fluorescent	120	200	120°

Notes:

1.01/2 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	Device	Тур.	Max.	Units	Test Conditions
Vf [1]	Forward Voltage	White	3.3	4.0	V	IF=20mA
lr	Reverse Current	White		50	uA	VR = 5V
x [2]	Observe the back and in the	White	0.31			
y [2]	Chromaticity Coordinates		0.31			
С	Capacitance	White	100		pF	VF=0V;f=1MHz

Notes:

1.Forward Voltage: +/-0.1V.

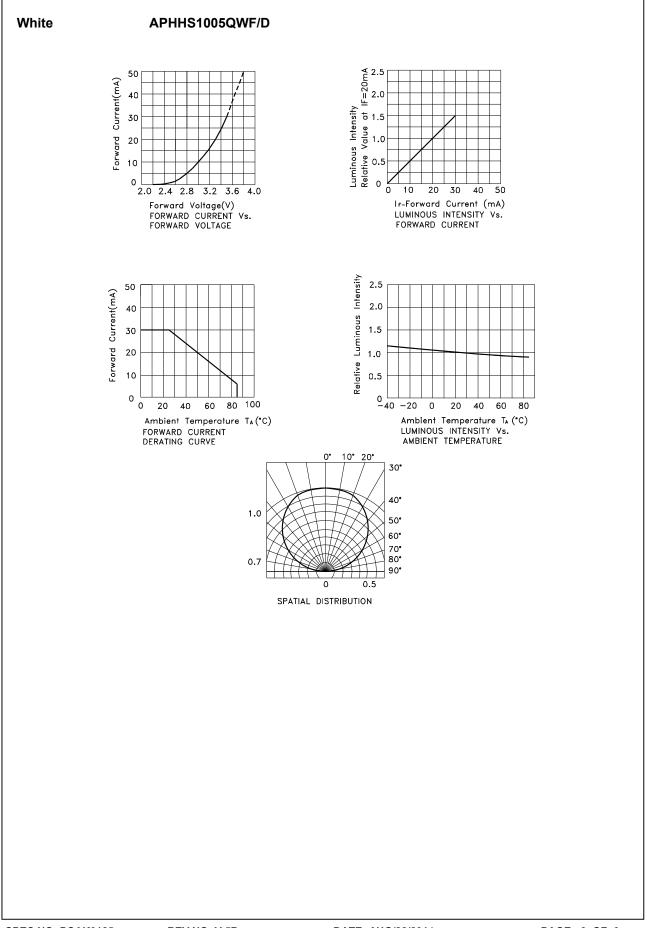
2.Measurement Tolerance Of The Chromaticity Coordinates Is ±0.01.

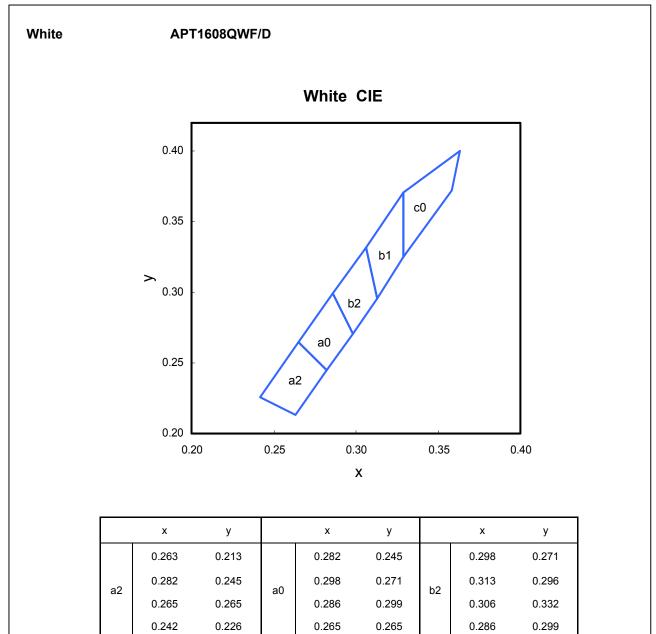
3.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	White	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note: 1.1/10 Duty Cycle, 0.1ms Pulse Width.





0.329

0.358

0.363

0.329

c0

Notes:

Shipment may contain more than one chromaticity regions. Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is ± 0.01 .

0.313 0.329

0.329

0.306

b1

0.296

0.325

0.371

0.332

0.325

0.372

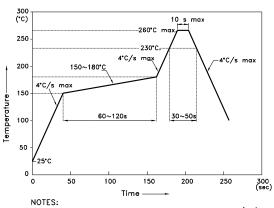
0.400

0.371

APHHS1005QWF/D

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.

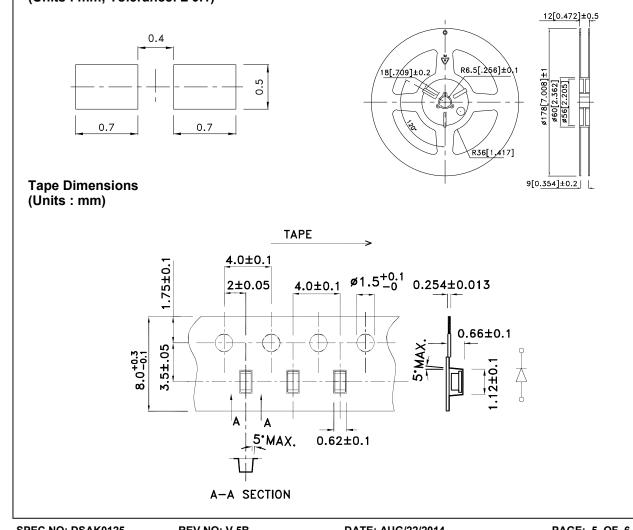
Reflow Soldering Profile For Lead-free SMT Process.

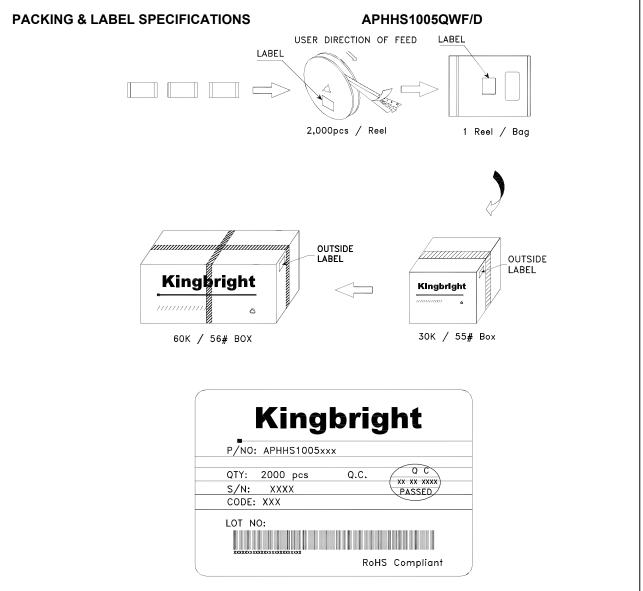


NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



Reel Dimension





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