1.6x0.8mm SMD CHIP LED LAMP

Part Number: APHK1608PBC/A Blue



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE

DEVICES

Features

- ●1.6mmx0.8mm SMT LED, 0.7mm 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 4.
- ●RoHS compliant.

Description

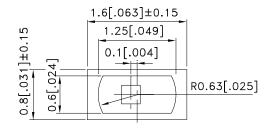
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

Static electricity and surge damage the LEDS.

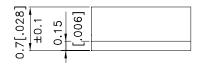
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

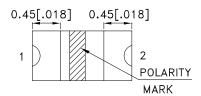
All devices, equipment and machinery must be electrically grounded.

Package Dimensions

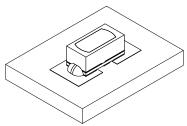












- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1 (0.004")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.4. The device has a single mounting surface. The device must be mounted according to the specifications.





PAGE: 1 OF 5 SPEC NO: DSAF7842 **REV NO: V.5** DATE: MAR/26/2009 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: X.J.Guo ERP: 1204000663

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		, , , , , , , , , , , , , , , , , , ,	Min.	Тур.	201/2
APHK1608PBC/A	Blue (InGaN)	WATER CLEAR	36	70	90°

- 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	Blue	468		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	21		nm	IF=20mA
С	Capacitance	Blue	100		pF	V _F =0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	4	V	IF=20mA
lr	Reverse Current	Blue		10	uA	V _R =5V

Notes:

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

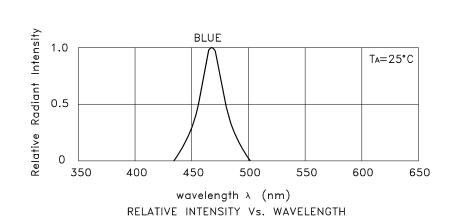
Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units		
Power dissipation	120			
DC Forward Current	30	mA		
Peak Forward Current [1]	100	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

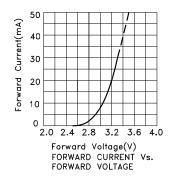
Note:

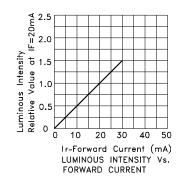
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

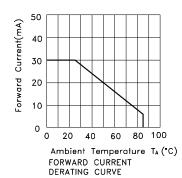
SPEC NO: DSAF7842 **REV NO: V.5** DATE: MAR/26/2009 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: X.J.Guo ERP: 1204000663

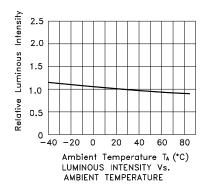


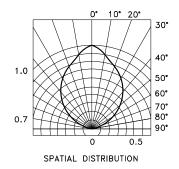
Blue APHK1608PBC/A











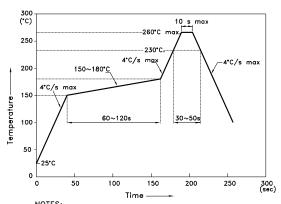
 SPEC NO: DSAF7842
 REV NO: V.5
 DATE: MAR/26/2009
 PAGE: 3 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: X.J.Guo
 ERP: 1204000663

APHK1608PBC/A

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.



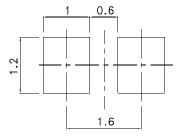
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

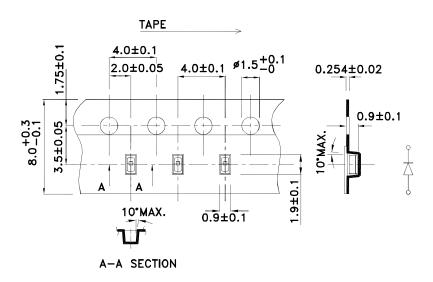
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

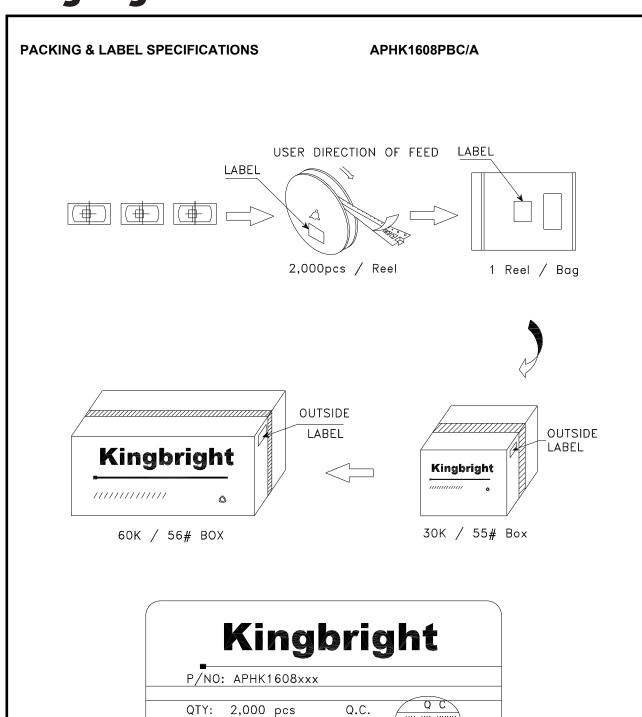
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)



SPEC NO: DSAF7842 **REV NO: V.5** DATE: MAR/26/2009 PAGE: 4 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: X.J.Guo ERP: 1204000663



SPEC NO: DSAF7842 APPROVED: WYNEC

REV NO: V.5 CHECKED: Allen Liu

S/N:

CODE: XXX

LOT NO:

DATE: MAR/26/2009 DRAWN: X.J.Guo

×× ×× ××××

PASSED

RoHS Compliant

PAGE: 5 OF 5 ERP: 1204000663

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kingbright:

APHK1608PBC/A