

1.6X0.8mm SMD CHIP LED LAMP

Part Number: APT1608PBC/A

Blue



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

Features

- 1.6mmX0.8mm SMT LED, 0.75mm 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

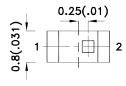
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

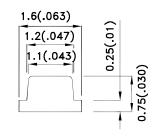
Static electricity and surge damage the LEDS.

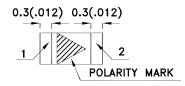
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

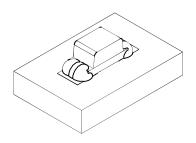
Package Dimensions











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





SPEC NO: DSAE5152 APPROVED: WYNEC

REV NO: V.9 CHECKED: Allen Liu DATE: APR/03/2009 DRAWN: S.M.Wu

PAGE: 1 OF 5 ERP: 1203003679

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
APT1608PBC/A	Blue (InGaN)	WATER CLEAR	18	60	120°

- 1. θ 1/2 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

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

Absolute Maximum Ratings at TA=25°C

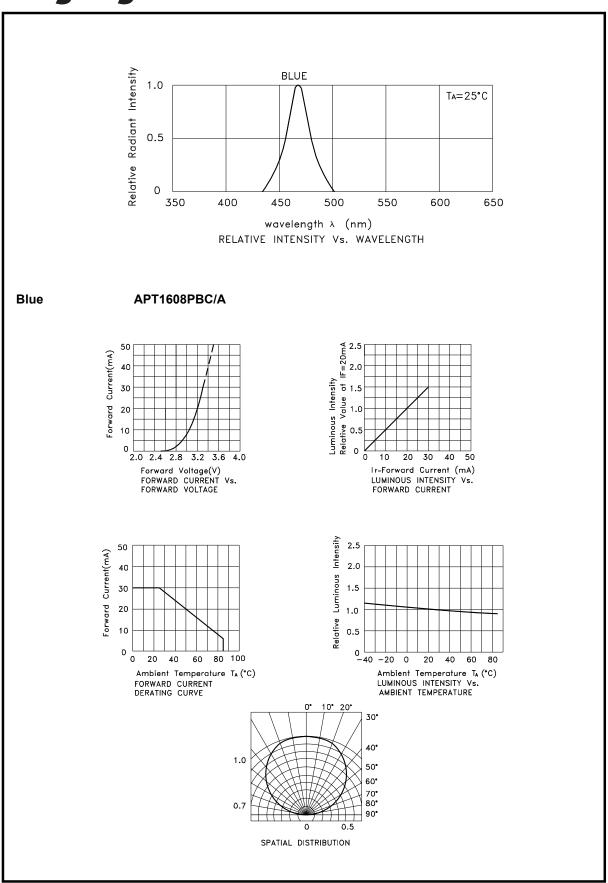
Parameter	Blue	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	100	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

PAGE: 2 OF 5

ERP: 1203003679

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

SPEC NO: DSAE5152 **REV NO: V.9** DATE: APR/03/2009 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: S.M.Wu



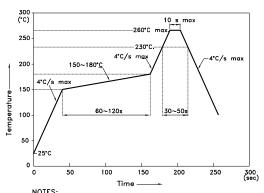
 SPEC NO: DSAE5152
 REV NO: V.9
 DATE: APR/03/2009
 PAGE: 3 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: S.M.Wu
 ERP: 1203003679

APT1608PBC/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.

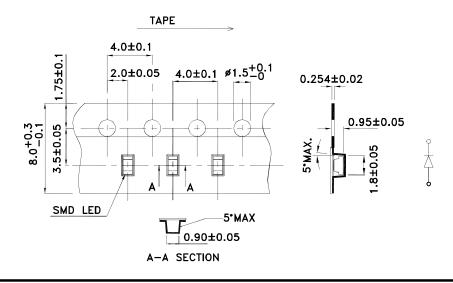
2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

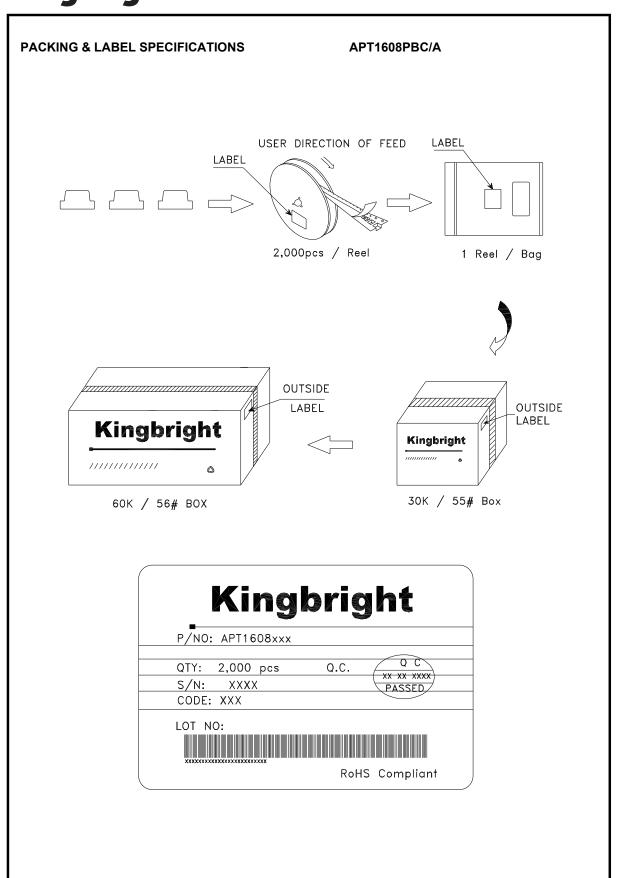
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)

0.8 0.85 0.8

Tape Dimensions (Units : mm)



SPEC NO: DSAE5152 APPROVED: WYNEC REV NO: V.9 CHECKED: Allen Liu DATE: APR/03/2009 DRAWN: S.M.Wu PAGE: 4 OF 5 ERP: 1203003679



SPEC NO: DSAE5152 APPROVED: WYNEC REV NO: V.9 CHECKED: Allen Liu DATE: APR/03/2009 DRAWN: S.M.Wu PAGE: 5 OF 5 ERP: 1203003679