

3.2x1.6mm SMD CHIP LED LAMP

PRELIMINARY SPEC



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

Part Number: APTL3216PBC/A

Features

- 3.2mmx1.6mm SMT LED, 1.1mm THICKNESS.
- LOW POWER CONSUMPTION.
- 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.

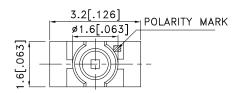
Static electricity and surge damage the LEDS.

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

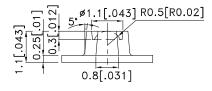
Blue

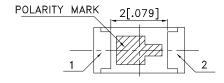
All devices, equipment and machinery must be electrically grounded.

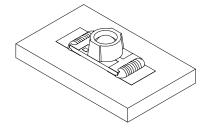
Package Dimensions











- 1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.1(0.004") unless otherwise noted.
 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.





SPEC NO: DSAH3794 APPROVED: WYNEC

REV NO: V.2 CHECKED: Allen Liu DATE: JUN/19/2008 DRAWN: Ting.Li

PAGE: 1 OF 5 ERP: 1203005474

Selection Guide

Part No.	Dice		lv (mc @ 20		Viewing Angle [1]
			Min.	Тур.	201/2
APTL3216PBC/A	Blue (InGaN)	WATER CLEAR	50	200	70°

- 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	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	4	V	I=20mA
lR	Reverse Current	Blue		10	uA	V _R =5V

Notes:

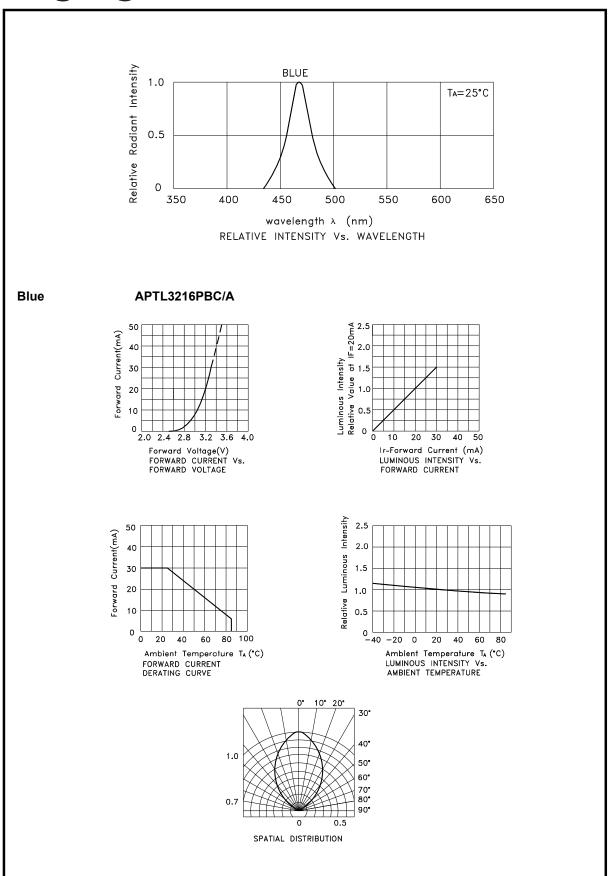
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units
Power dissipation	120	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	

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

REV NO: V.2 DATE: JUN/19/2008 SPEC NO: DSAH3794 PAGE: 2 OF 5 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Ting.Li ERP: 1203005474

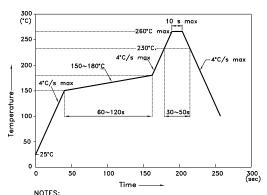


 SPEC NO: DSAH3794
 REV NO: V.2
 DATE: JUN/19/2008
 PAGE: 3 OF 5

 APPROVED: WYNEC
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APTL3216PBC/A

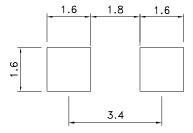
Reflow Soldering Profile For Lead-free SMT Process.



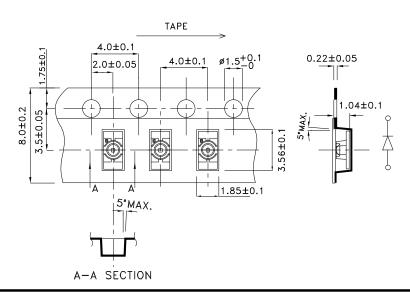
NOTES:

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)



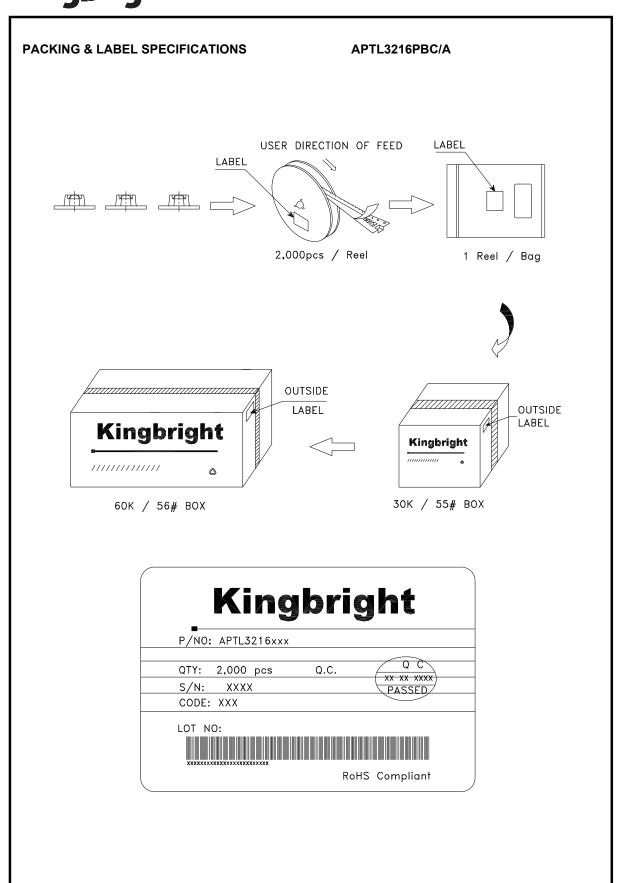
Tape Specifications (Units: mm)



SPEC NO: DSAH3794 APPROVED: WYNEC

REV NO: V.2 CHECKED: Allen Liu **DATE: JUN/19/2008** DRAWN: Ting.Li

PAGE: 4 OF 5 ERP: 1203005474



SPEC NO: DSAH3794 REV NO: V.2 DATE: JUN/19/2008

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DATE: JUN/19/2008 PAGE: 5 OF 5
DRAWN: Ting.Li ERP: 1203005474