3.2x2.4mm SMD CHIP LED LAMP

Part Number: APD3224PBC/A-F01 Blue



ATTENTION

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

Features

- 3.2x2.4mm SMT LED, 2.4mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 1500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

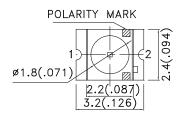
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

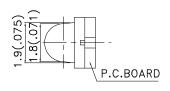
Static electricity and surge damage the LEDS.

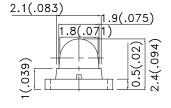
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

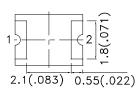
All devices, equipment and machinery must be electrically grounded.

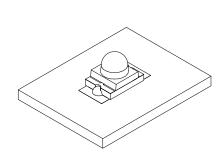
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1 (0.004")$ 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.





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Selection Guide

| Part No. | Dice | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
|------------------|--------------|-------------|------------------------|------|----------------------|
| | | 2. | Min. | Тур. | 201/2 |
| APD3224PBC/A-F01 | Blue (InGaN) | WATER CLEAR | 110 | 380 | 20° |

- 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 | IF=20mA |
| lr | Reverse Current | Blue | | 10 | uA | V _R =5V |

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

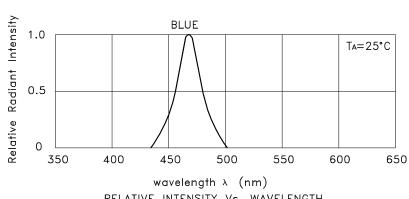
Absolute Maximum Ratings at TA=25°C

| And of the control of | | | | | | |
|--|----------------|----|--|--|--|--|
| Parameter | Blue | | | | | |
| 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 | | | | | |
| Storage remperature | -40 C 10 +85°C | | | | | |

Note:

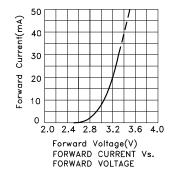
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

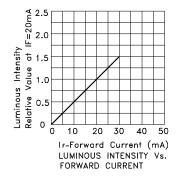
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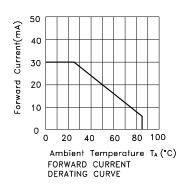


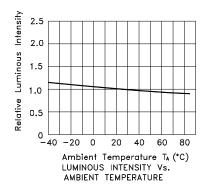
RELATIVE INTENSITY Vs. WAVELENGTH

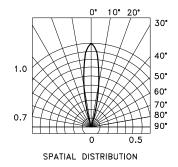
Blue APD3224PBC/A-F01







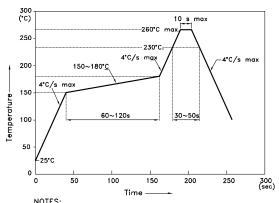




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APD3224PBC/A-F01

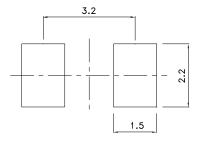
Reflow Soldering Profile For Lead-free SMT Process.



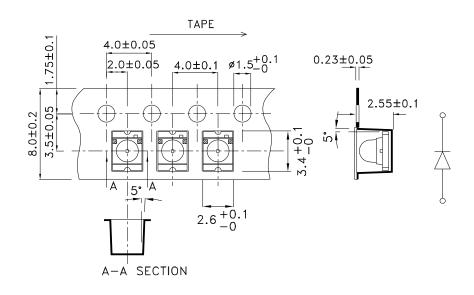
- NOTES:

 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.

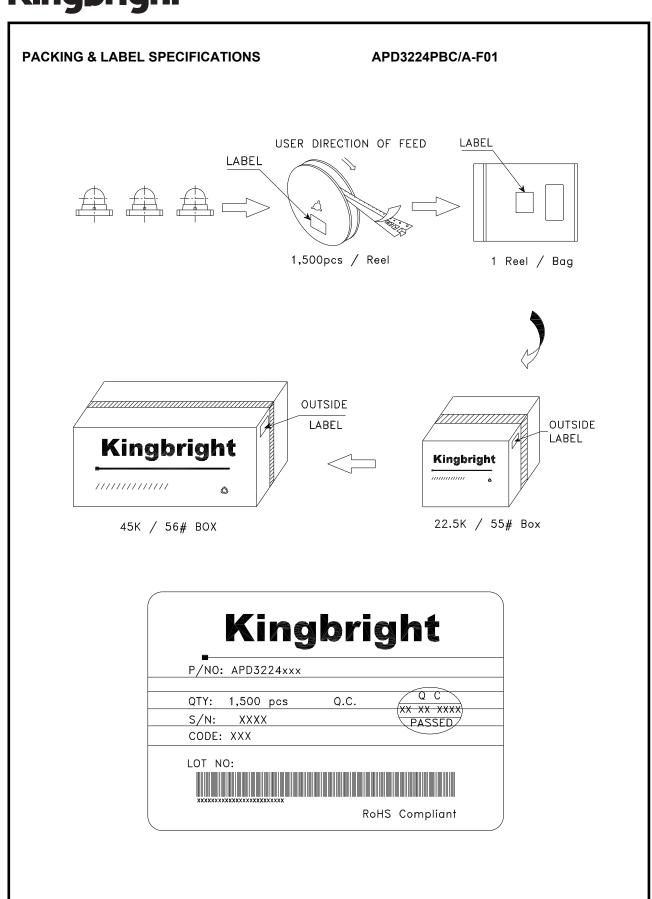
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Specifications (Units: mm)



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