

## 3.2x2.4mm RIGHT ANGLE SMD CHIP LED LAMP



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

P/N: KPEKA-3224PBC

**BLUE** 

#### **Features**

- •3.2mmx2.4mm RIGHT ANGLE SMT LED, 2.4mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE: 1500PCS / REEL.
- •RoHS COMPLIANT.

### **Description**

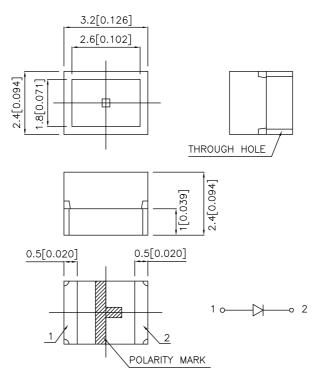
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

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**



#### Notes:

- All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.2(0.0079")$  unless otherwise noted.
- 3. Specifications are subject to change without notice.

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### **Selection Guide**

Part No.	Dice	Lens Type	lv (m @ 20	,	Viewing Angle
		,	Min. Typ.		<b>2</b> 01/2
KPEKA-3224PBC	BLUE (InGaN)	WATER CLEAR	50	100	90°

### Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	IF=20mA
λD	Dominant Wavelength	Blue	470		nm	I==20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=20mA
С	Capacitance	Blue	65		pF	VF=0V;f=1MHz
VF	Forward Voltage	Blue	3.65	4.2	V	IF=20mA
lr	Reverse Current	Blue		10	uA	VR = 5V

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

Parameter	Blue	Units	
Power dissipation	102	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	160	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		

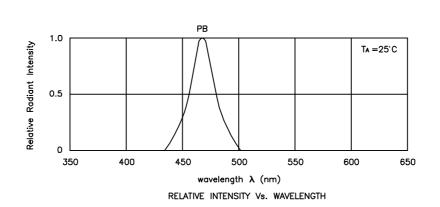
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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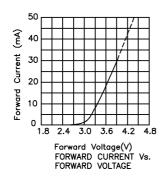
APPROVED: J. Lu

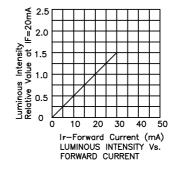
<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

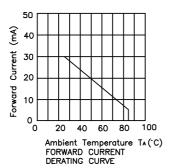
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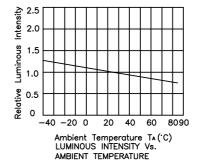


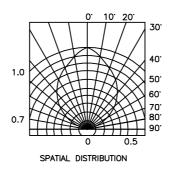
Blue KPEKA-3224PBC











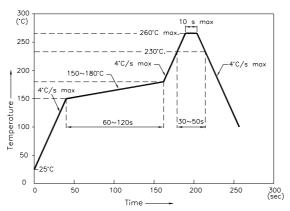
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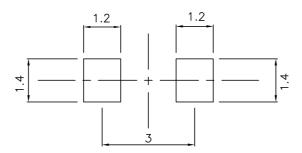
#### **KPEKA-3224PBC**

Reflow Soldering Profile For Lead-free SMT Process.



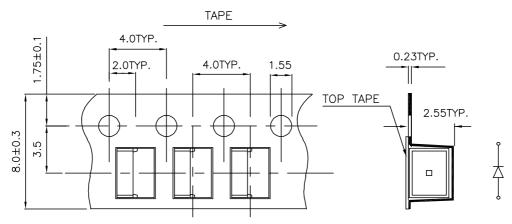
- NOTES: 1.We recommend the reflow temperature  $245^{\circ}C(+/-5^{\circ}C)$ .The maximum soldering temperature should be limited to 260°C.
  - 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3. Number of reflow process shall be 2 times or less.
- **Recommended Soldering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

(Units: mm)



## **Tape Specifications**

(Units:mm)



If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity/ luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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