



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

Part Number: KPGA-1602VBC-F-5MAV

Blue

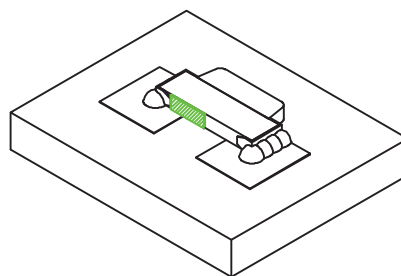
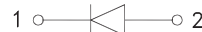
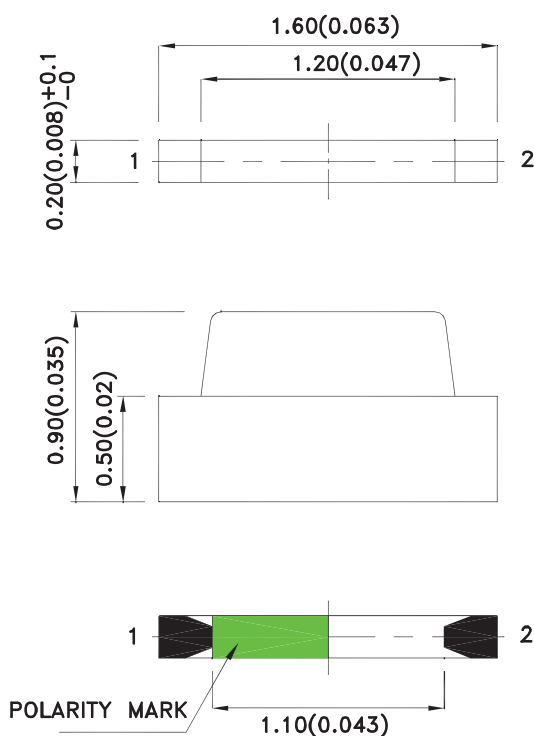
### Features

- 1.6mmx0.9mm right angle SMT LED, 0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Moisture sensitivity level : level 3.
- Package : 2000pcs / reel.
- Tinned pads for improved solderability.
- Low current IF=5mA operating.
- RoHS compliant.

### Description

The Blue source color devices are made with InGaN on Sapphire-substrate 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:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.1(0.004)$  unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
4. The device has a single mounting surface. The device must be mounted according to the specifications.



## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 5mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
KPGA-1602VBC-F-5MAV	Blue (InGaN)	Water Clear	12	25	155° (H) 150° (V)

### Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.
3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

## Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Blue	458		nm	I <sub>F</sub> =5mA
λ <sub>D</sub> [1]	Dominant Wavelength	Blue	463		nm	I <sub>F</sub> =5mA
Δλ <sub>1/2</sub>	Spectral Line Half-width	Blue	25		nm	I <sub>F</sub> =5mA
V <sub>F</sub> [2]	Forward Voltage	Blue	2.8	3.2	V	I <sub>F</sub> =5mA
I <sub>R</sub>	Reverse Current	Blue		50	uA	V <sub>R</sub> =5V

### Notes:

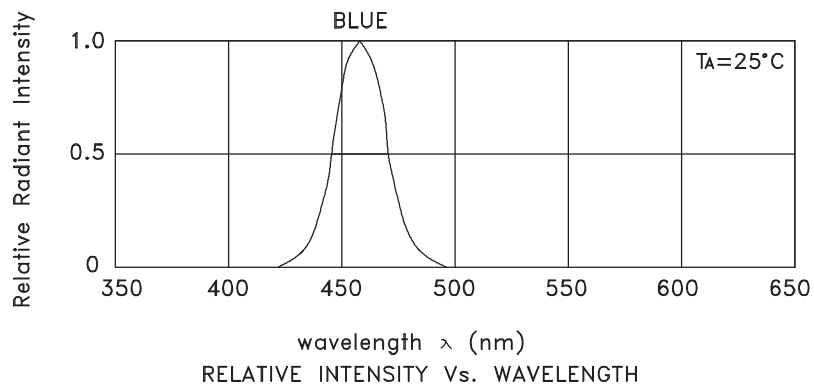
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

## Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units
Power dissipation	100	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +100°C	

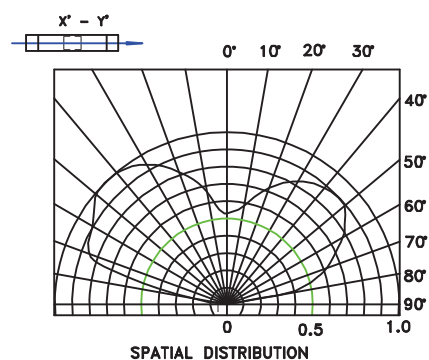
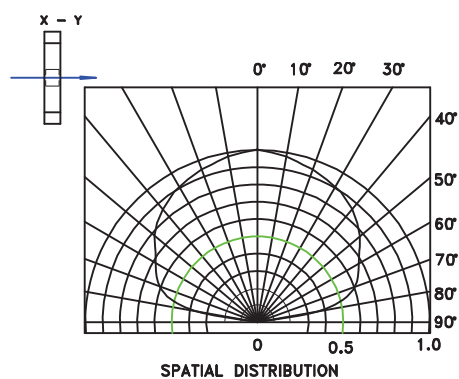
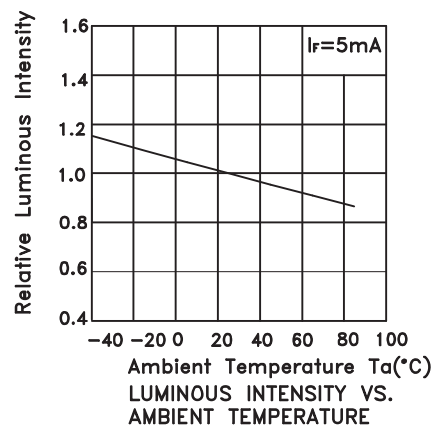
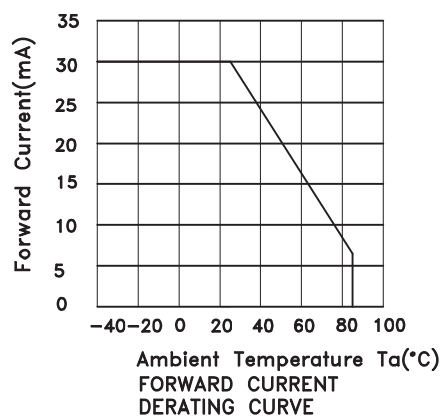
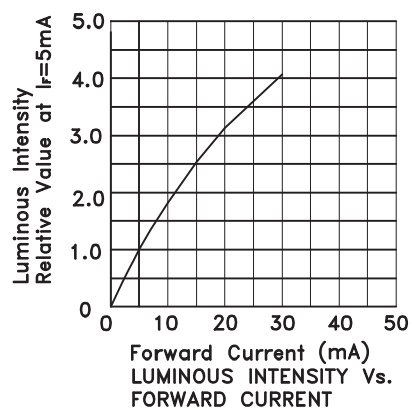
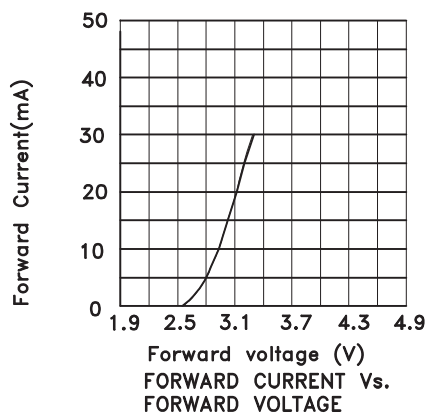
### Note:

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



Blue

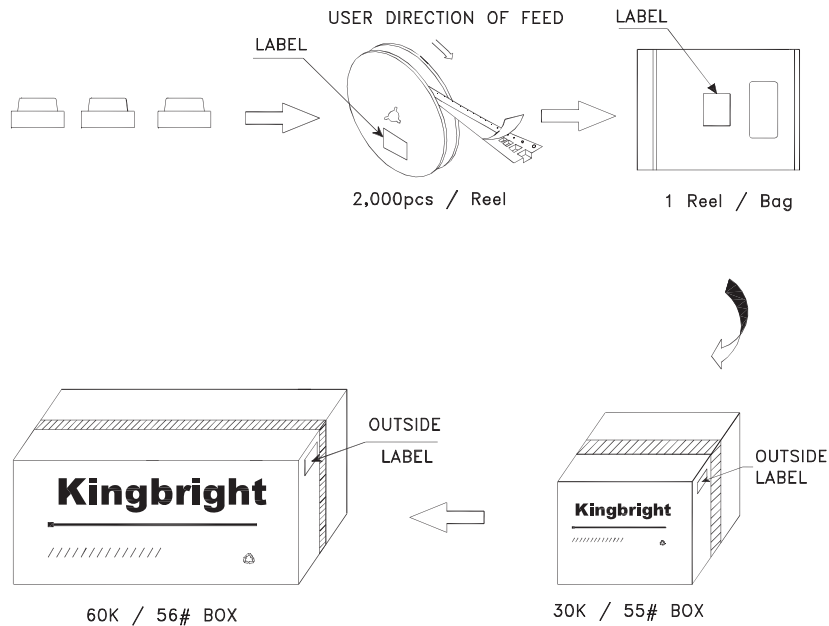
KPGA-1602VBC-F-5MAV






## PACKING & LABEL SPECIFICATIONS

## KPGA-1602VBC-F-5MAV



<b>Kingbright</b>	
P/N0: KPGA-1602xxx	
QTY: 2,000 pcs	Q.C. <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Q C XX-XX-XXXX PASSED</span>
S/N: XXXX	
CODE: XXX	
LOT NO:	
	
RoHS Compliant	

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- 2.The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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