



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Part Number: KPB-3025QBDSYKC

Blue
Super Bright Yellow

Features

- 3.0mmx2.5mm SMT LED, 1.1mm thickness.
- Bi-color, Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

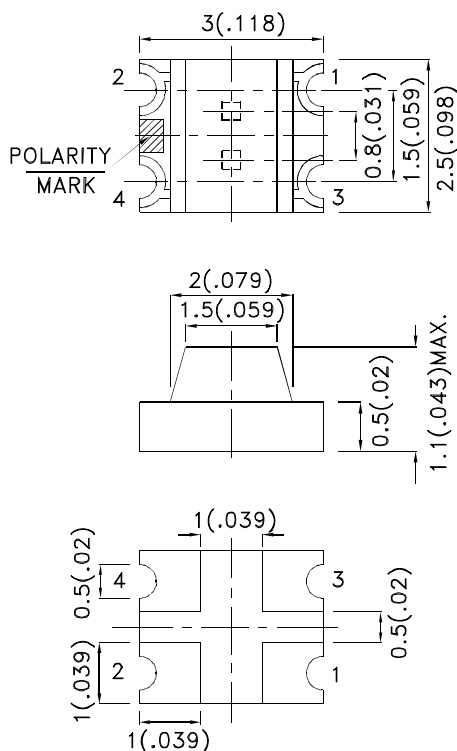
The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Static electricity and surge damage the LEDs.

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

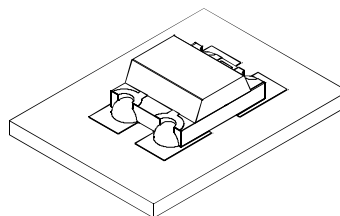
All devices, equipment and machinery must be electrically grounded.

Package Dimensions



QB-D
2 1

SYK
4 3



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ 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] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
KPB-3025QBDSYKC	Blue (InGaN)	Water Clear	40	80	120°
	Super Bright Yellow (AlGaInP)		70	120	

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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Super Bright Yellow	468 590		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue Super Bright Yellow	470 590		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue Super Bright Yellow	25 20		nm	IF=20mA
C	Capacitance	Blue Super Bright Yellow	100 20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue Super Bright Yellow	3.3 2	4 2.5	V	IF=20mA
IR	Reverse Current	Blue Super Bright Yellow		50 10	uA	VR = 5V

Notes:

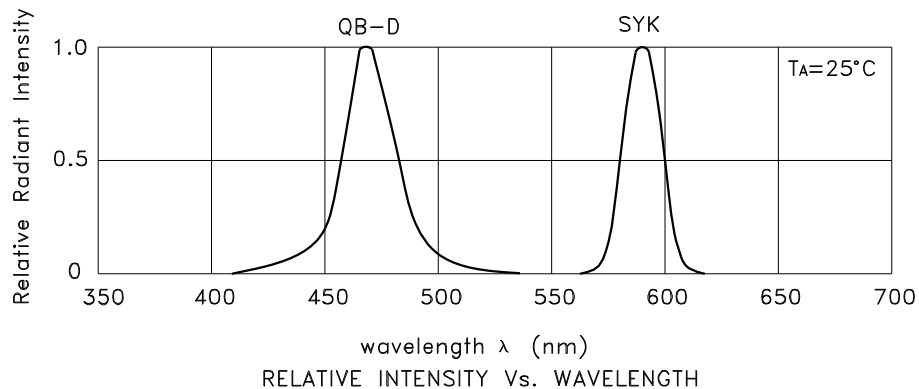
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

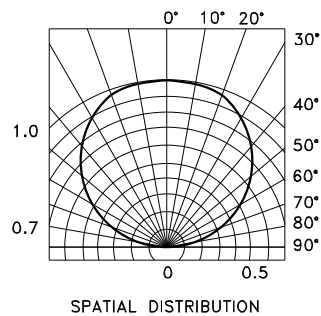
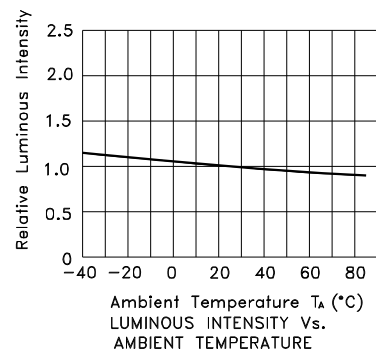
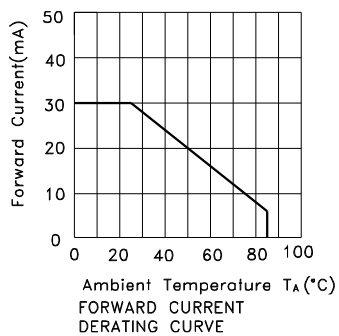
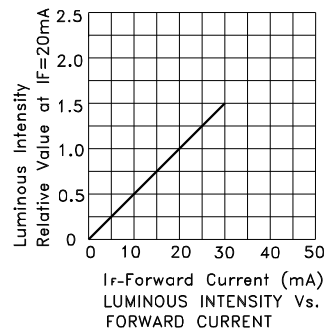
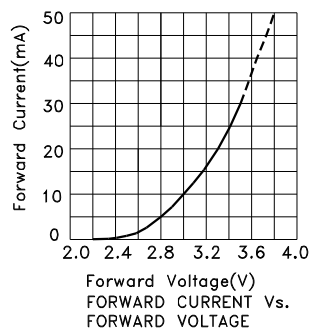
Parameter	Blue	Super Bright Yellow	Units
Power dissipation	120	75	mW
DC Forward Current	30	30	mA
Peak Forward Current [1]	150	175	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

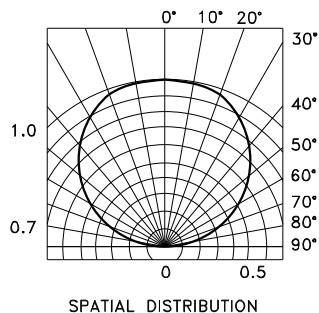
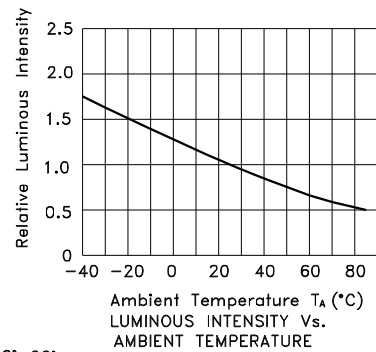
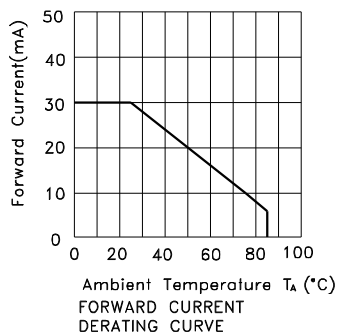
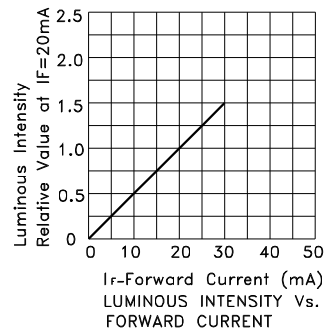
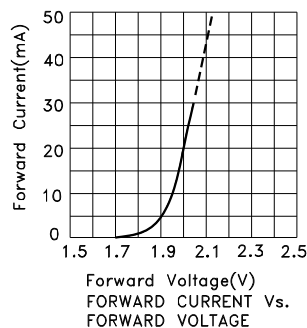
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPB-3025QBDSYKC Blue

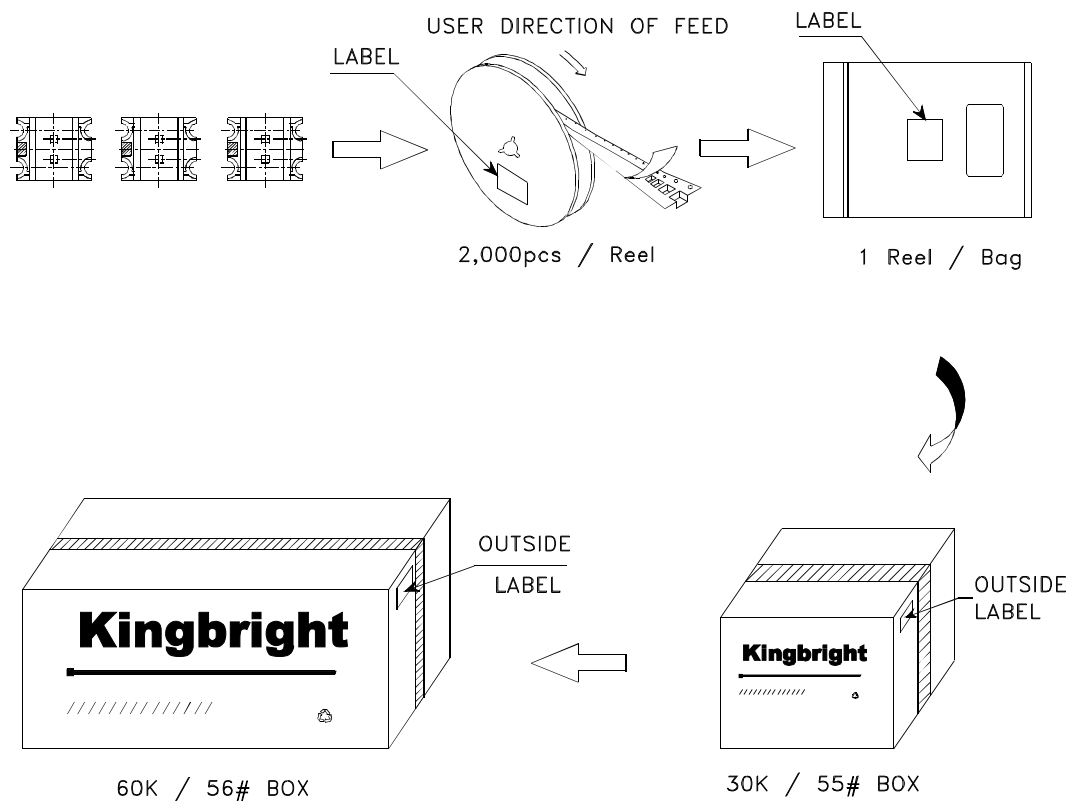


Super Bright Yellow



PACKING & LABEL SPECIFICATIONS

KPB-3025QBDSYKC



Kingbright	
P/NO: KPB-3025xxx	
QTY: 2,000 pcs	Q.C. Q C XX XX XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	