

**QT-Brightek Chip LED Series**

**SMD 0603 Green LED**

**Part No.: QBLP601-YG15**

**A: 5mA**



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## Introduction

### Feature:

- Clear lens
- Color: Green
- Package in tape and reel
- 0603 LED package
- Viewing angle: 140 deg typ.
- Height profile: 0.6mm

### Application:

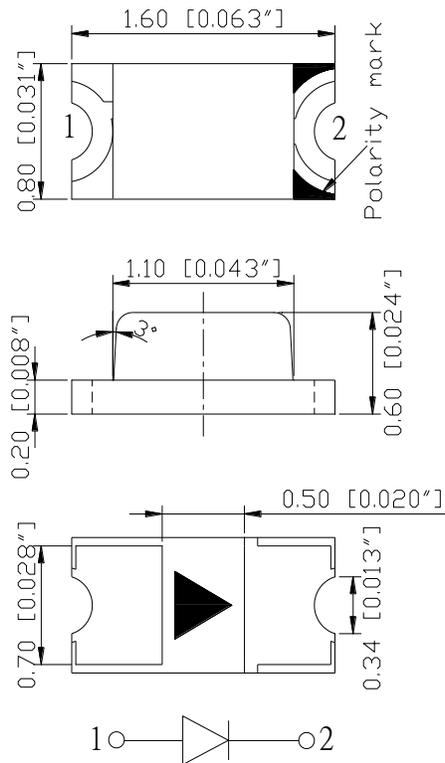
- Status indication
- Back lighting application

### Certification & Compliance:

- ISO9001
- RoHS Compliant



### Dimension:



Units: mm / tolerance = +/-0.1mm

## Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I <sub>F</sub> (mA)	V <sub>F</sub> (V)		λ <sub>D</sub> (nm)			λ <sub>p</sub> (nm)	I <sub>v</sub> (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Typ.	Min.	Typ.
QBLP601-YG15	Green	5	2.0	2.3	566	569	575	565	1.6	6.0

## Absolute Maximum Rating

Chip Material	P <sub>d</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)*	V <sub>R</sub> (V)	T <sub>OP</sub> (°C)	T <sub>ST</sub> (°C)	T <sub>SOL</sub> (°C)**
GaP	75	30	100	5	-40 ~ +80	-40 ~ +85	260

\*Duty 1/10 @ 1KHz

\*\*IR Reflow for no more than 10 sec @ 260 °C

## Forward Voltage V<sub>F</sub> @ I<sub>F</sub>=5mA

Bin	Min.	Max.	Unit
A	1.7	2.0	V
B	2.0	2.3	

## Luminous Intensity I<sub>v</sub> @ I<sub>F</sub>=5mA

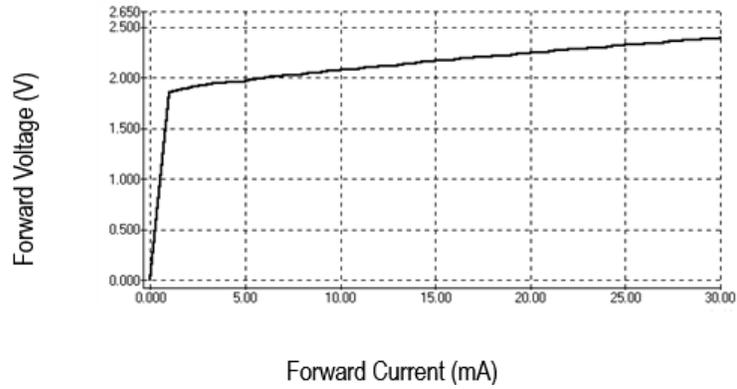
Bin	Min.	Max.	Unit
5	1.6	2.56	mcd
6	2.56	4.1	
7	4.1	6.4	
8	6.4	10.2	

## Dominant Wavelength λ<sub>D</sub> @ I<sub>F</sub>=5mA

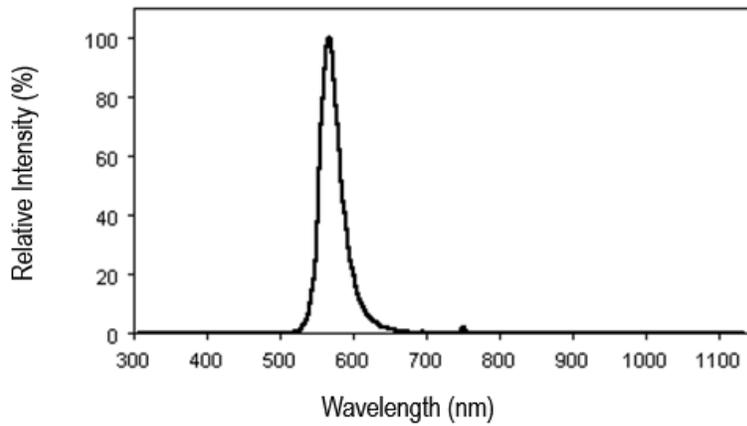
Bin	Min.	Max.	Unit
H	566	569	nm
I	569	572	
J	572	575	

## Characteristic Curves

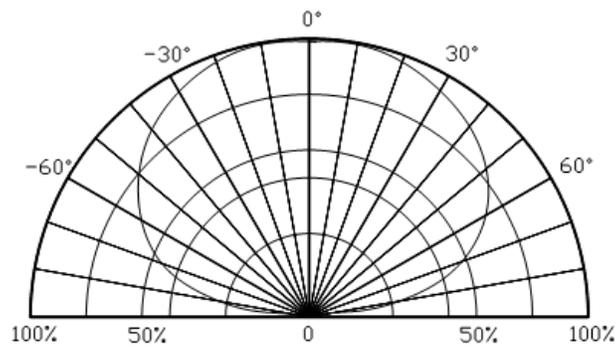
Forward Current vs. Forward Voltage



Relative Intensity vs. Wavelength

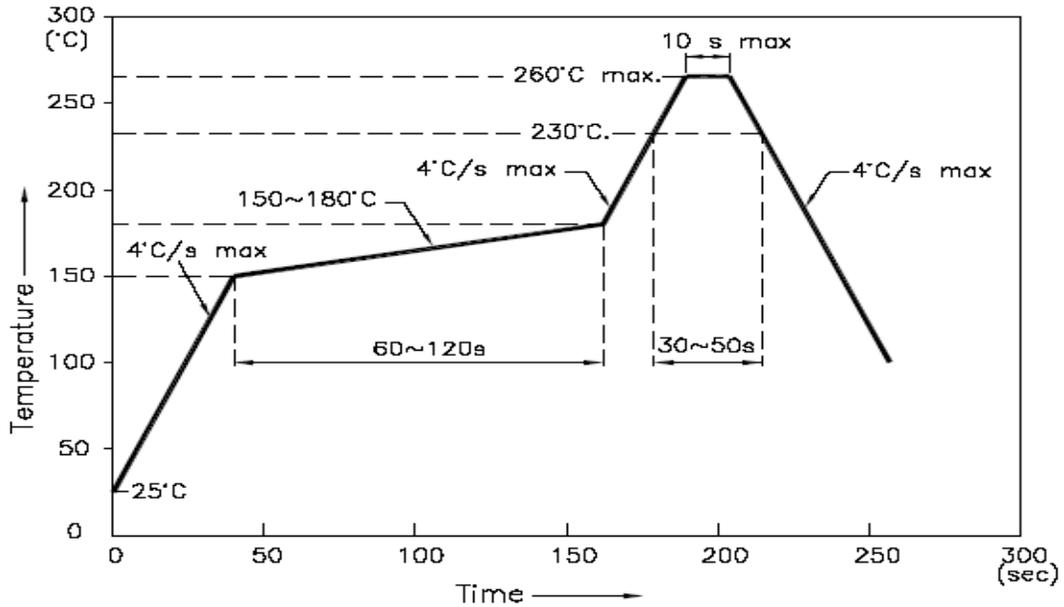


Directive Characteristics

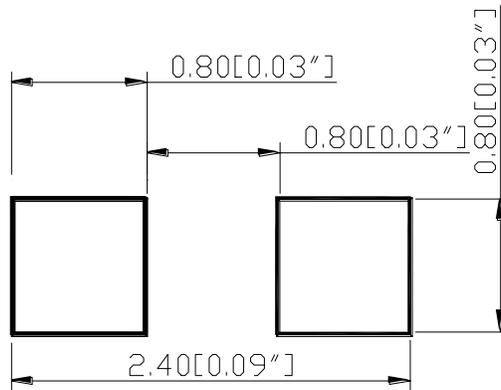


## Solder Profile & Footprint

-The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



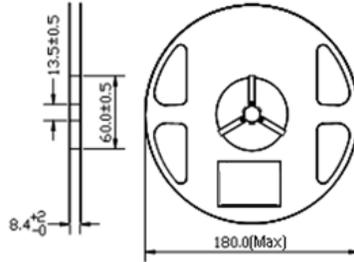
### Recommended Pad Layout



Units: mm

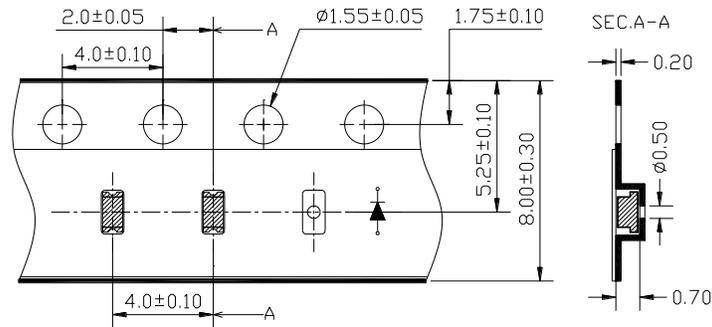
## Packing

### Reel Dimension:



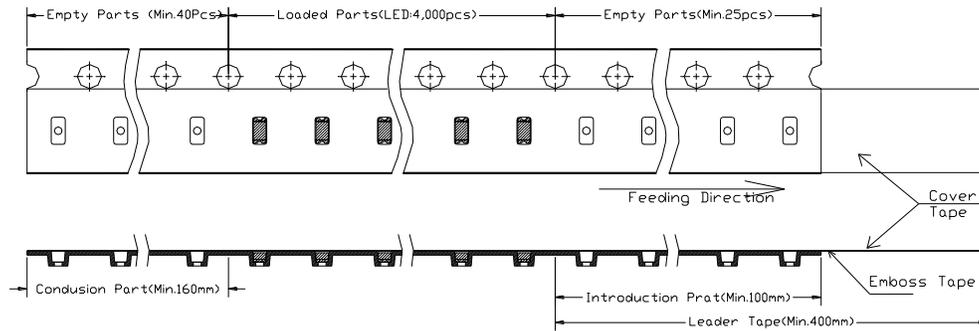
Unit: mm

### Tape Dimension:

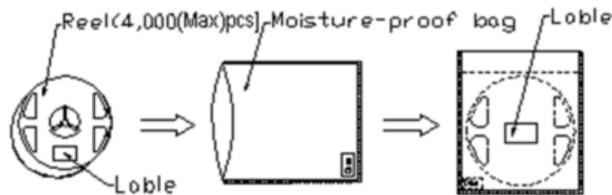


Unit: mm

### Arrangement of Tape:



### Packaging Specifications:





## Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP601-YG15	Iv=6.0mcd typ. @ If=5mA / Color=566 to 575nm	4,000 units

## Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-YG15	V1.0	10/28/2025

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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