

QT-Brightek Chip LED Series

SMD 0805 Green LED

Part No.: QBLP631-YG1A

**YG1: GaP Green (566 to 575nm)
A: 10mA**

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	Version# 1.0	



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Introduction

Feature:

- Water clear lens
- Package in tap and reel
- 0805 LED package
- GaP technology
- Viewing angle: 140 deg typ.

Description:

These ultra bright 0805 LEDs have a height profile of 0.8mm. Combination of high brightness output and small footprint, these LEDs are ideal for keypad backlighting and status indication.

Application:

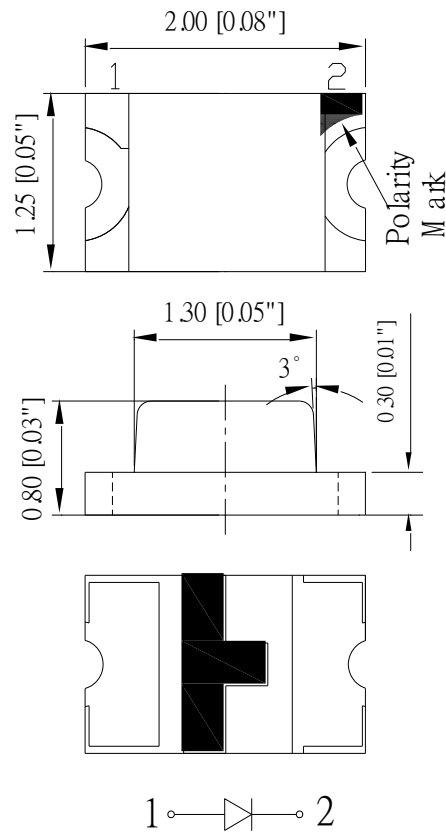
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			λ _P (nm)	I _V (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Typ.	Min.	Typ.
QBLP631-YG1A	Green	10	2.1	2.4	566	569	575	565	5.0	6

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
GaP	72	30	125	5	-40 ~ +80	-40 ~ +85	260

*Duty 1/8 @ 1KHz

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

Forward Voltage V_F @ I_F=10mA

Bin	Min.	Max.	Unit
<input type="checkbox"/>	1.7	2.4	V

Luminous Intensity I_V @ I_F=10mA

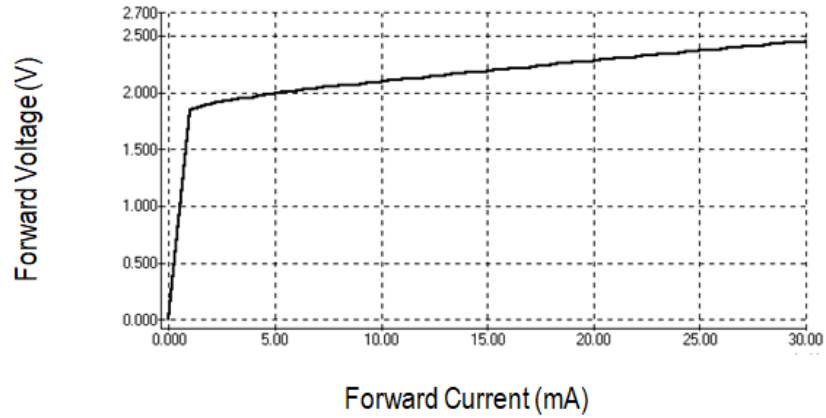
Bin	Min.	Max.	Unit
6	2.0	3.2	mcd
7	3.20	5.0	
8	5.0	8.0	
9	8.0	12.5	
A	12.5	16	

Dominant Wavelength λ_D @ I_F=10mA

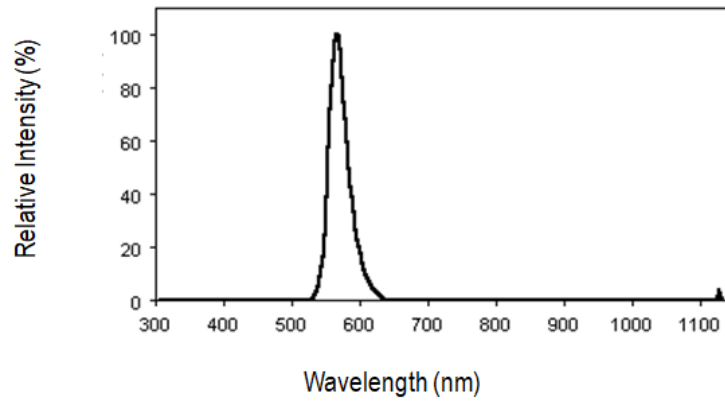
Bin	Min.	Max.	Unit
h	566	569	nm
i	569	572	
j	572	575	

Characteristic Curves

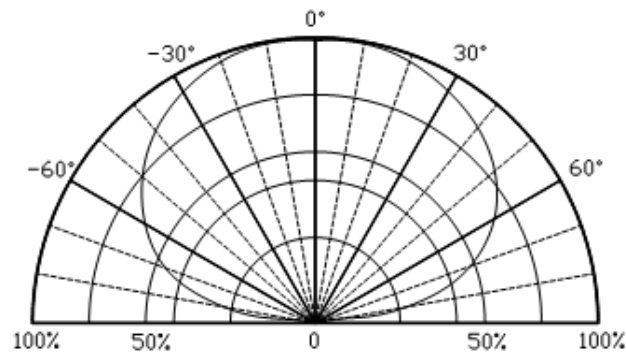
Forward Current vs. Forward Voltage



Relative Intensity vs. Wavelength

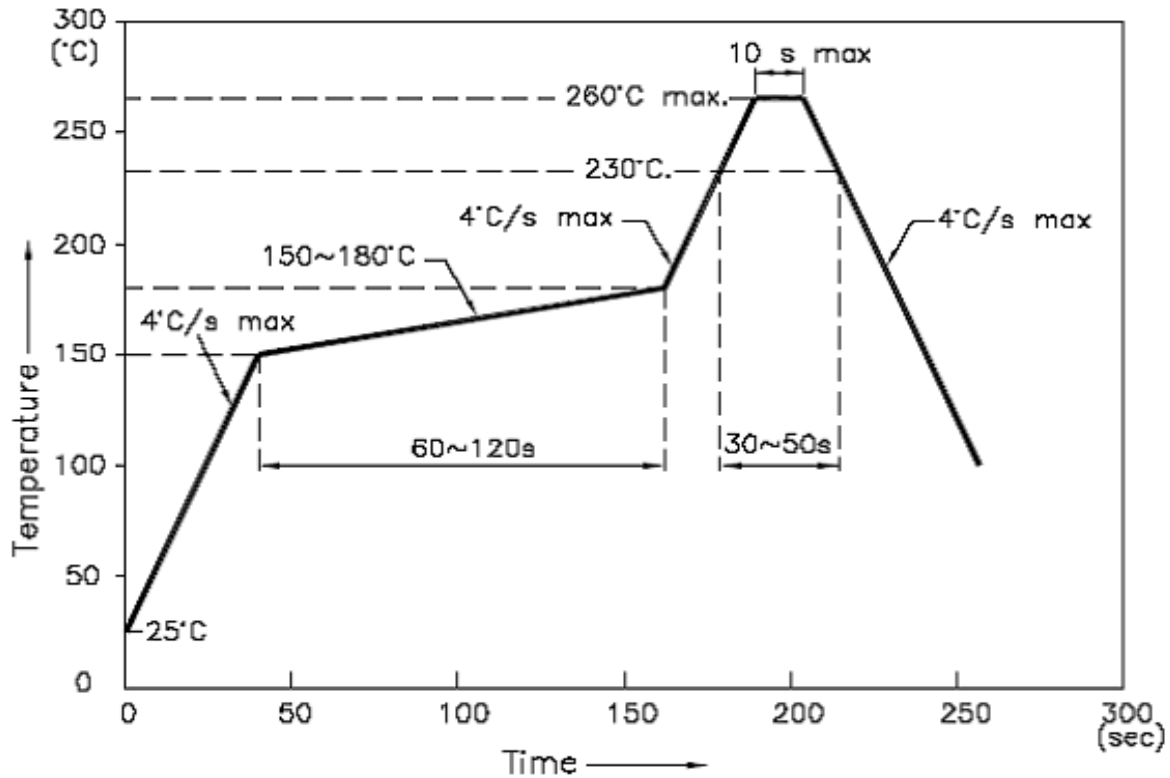


Directive Characteristics

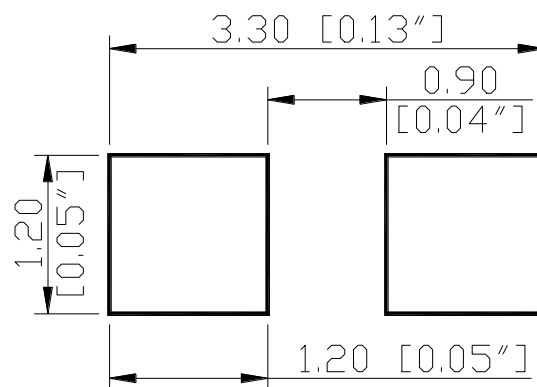


Solder Profile & Footprint

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



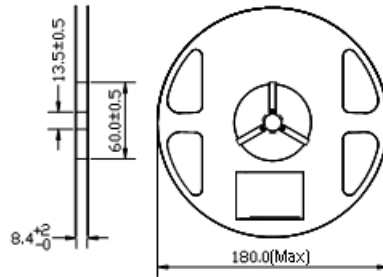
Recommended Pad Layout



Units: mm

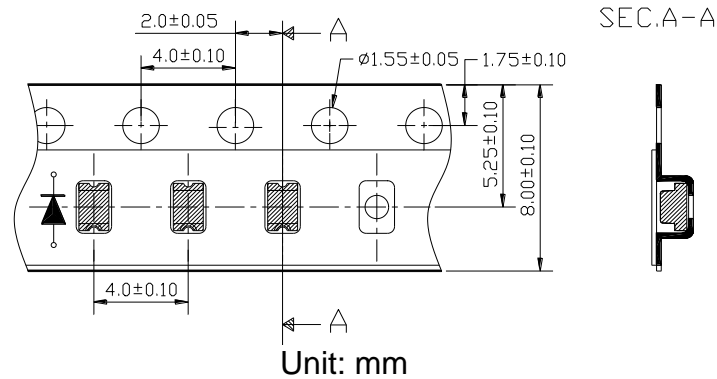
Packing

Reel Dimension:



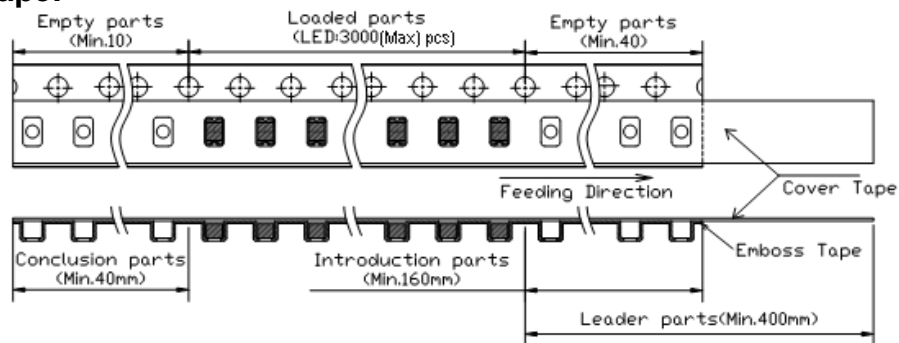
Unit: mm

Tape Dimension:

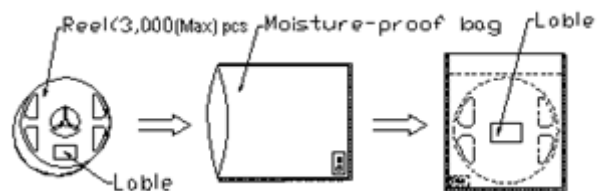


Unit: mm

Arrangement of Tape:



Packaging Specification:



Labeling



Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

Vf: _____

Iv: _____

VI: _____

Date: _____

Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP631-YG1A	Iv=6mcd typ. / λ _D = 566nm to 575nm @ 10mA	3000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP631-YG1A	V1.0	03/27/2024

Disclaimer

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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.