



QT-Brightek Chip LED Series

SMD 0805 Yellow LED

Part No.: QBLP631-Y5

5: 5mA

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QBLP631-Y5

0805 LED

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QBLP631-Y5 0805 LED

Introduction

Feature:

- Water clear lens
- Package in tap and reel
- 0805 LED package
- AllnGaP 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:

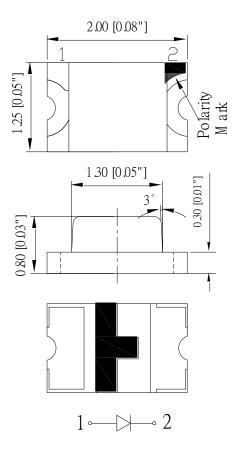
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I (m A)	V _F	(V)	7	N _D (nm)		λ _P (nm)	I _V (n	ncd)
Product	Coloi	I _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Typ. Min. Ty	Тур.	
QBLP631-Y5	Yellow	5	1.9	2.5	585	589	595	590	16	31

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)**
AllnGaP	75	30	125	5	-40 ~ +80	-40 ~ +85	260

^{*}Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=5mA

Bin	Min.	Max.	Unit
	1.7	2.5	V

Luminous Intensity I_V @ I_F=5mA

Bin	Min.	Max.	Unit
В	16	20	
С	20	25	
D	25	32	mcd
E	32	40	
F	40	50	

Dominant Wavelength λ_D @ $I_F=5mA$

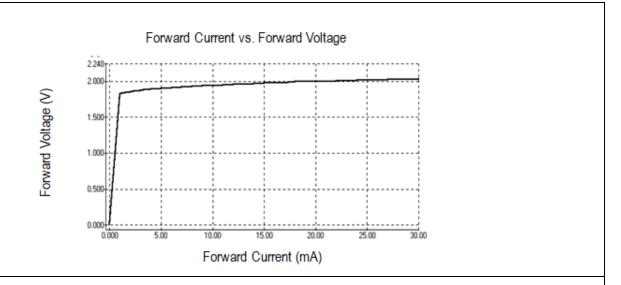
Bin	Min.	Max.	Unit
m	585	590	nm
n	590	595	nm

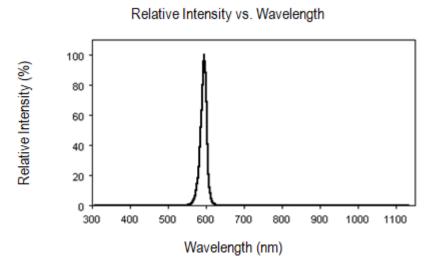
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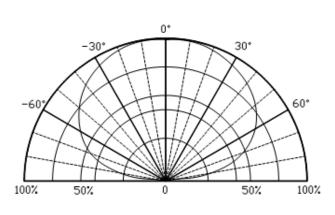
^{**}IR Reflow for no more than 10 sec @ 260 °C



Characteristic Curves

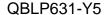






Directive Characteristics

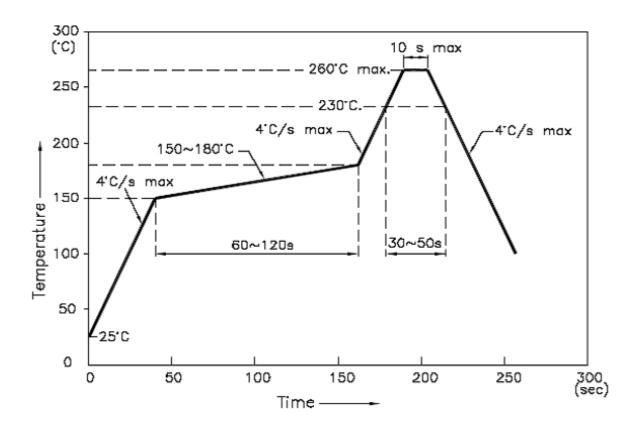
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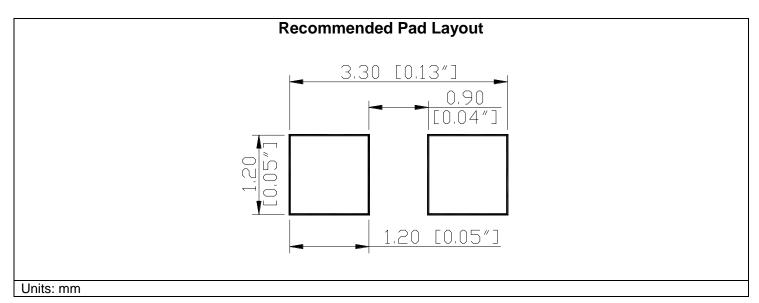




Solder Profile & Footprint

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





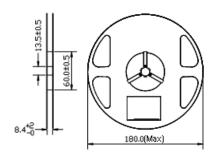
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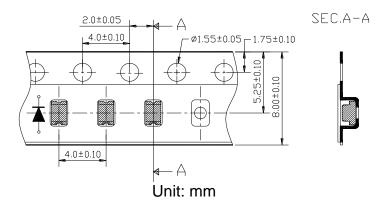
Packing

Reel Dimension:

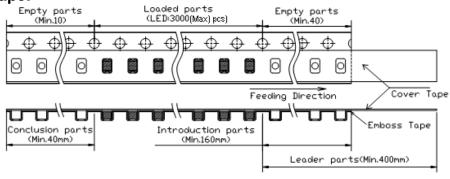


Unit: mm

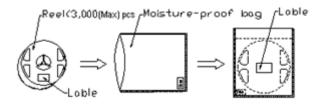
Tape Dimension:



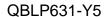
Arrangement of Tape:



Packaging Specification:



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Labeling

Part No:		
Customer P/N:		
tem:		
Q'ty:		
√f:		
v:		
VVI:		
Date:		
Made in China		

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP631-Y5	$Iv=31mcd typ. / \lambda_D = 585nm to 595nm @ 5mA$	3000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP631-Y5	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.

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