

QT-Brightek Chip LED Series

SMD 0805 LED

Part No.: QBLP631-IW5-2897

5: 5mA 2897: High Brightness Version

Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 1 of 10
	Version# 1.0	



Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	4
Absolute Maximum Rating	
CIE Chromaticity Diagram.	
Solder Profile & Footprint	
Packing	8
Ordering Information	
Revision History	
Disclaimer	

Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 2 of 10
	Version# 1.0	



Introduction

Feature: **Application:** • Yellow diffused lens • Status indication • Back lighting application • Package in tape and reel • Ultra bright 0805 LED package InGaN technology • **Certification & Compliance:** Viewing angle: 140° typ. • • ISO9001 • RoHS Compliant **Description:** These ultra bright 0805 LEDs have a height profile of 0.80mm. Combination of high brightness output and small footprint, these LEDs are ideal for keypad backlighting and status indication. **Dimension:** 2.00 [0.08"] 25 [0.05" Polarity M ark 1 30 [0.05"] 0.30 [0.01"] 3° 0.80 [0.03" 1 ----> 2

Units: mm / tolerance = +/-0.1mm

Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 3 of 10
	Version# 1.0	



Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	L (m A)	V _F (V)			CIE Coordinate		I _v (mcd)	
FIOUUCI	COIOI	I _F (mA)	Min.	Тур.	Max.	Тур.	Min.	Тур.	Max.
QBLP631-IW5- 2897	White	5	2.5	2.8	3.4	X=0.298 Y=0.311	125	240	400

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	Т _{ОР} (°С)	Т _{sт} (°С)	Т _{SOL} (°С)**
InGaN	102	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=5mA

J			
Bin	Min.	Max.	Unit
е	2.5	2.8	
f	2.8	3.1	V
g	3.1	3.4	

Luminous Intensity $I_V @ I_F=5mA$

Bin	Min.	Max.	Unit
K	125	160	
L	160	200	
М	200	250	mcd
Ν	250	320	
0	320	400	

Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 4 of 10
	Version# 1.0	



CIE Chromaticity Diagram



Rank	Chromaticity coordinates					
	x	0.278	0.278	0.298	0.298	
A	Y	0.267	0.297	0.336	0.306	
в	х	0.278	0.278	0.298	0.298	
	Y	0.237	0.267	0.306	0.276	
с	х	0.298	0.298	0.318	0.318	
L C	Y	0.306	0.336	0.374	0.344	
D	х	0.298	0.298	0.318	0.318	
	Y	0.276	0.306	0.344	0.314	

Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 5 of 10
	Version# 1.0	



Characteristic Curves



Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 6 of 10
	Version# 1.0	



Solder Profile & Footprint

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





Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 7 of 10
	Version# 1.0	



Packing

Reel Dimension:



Unit: mm

Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 8 of 10
	Version# 1.0	



Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP631-IW5-2897	QBLP631-IW5-2897	Iv=240mcd typ. @ I _F =5mA / CIE Coordinate: (X=0.298, Y=0.311) typ.	3,000 units

Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 9 of 10
	Version# 1.0	



Revision History

Description:	Revision #	Revision Date
New Release of QBLP631-IW5-2897	V1.0	02/16/2022

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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.

Product: QBLP631-IW5-2897	Date: February 16, 2022	Page 10 of 10
	Version# 1.0	