

QT-Brightek PLCC Series PLCC2 High Bright Yellow LED

Part No.: QBLP669-Y-2897

2897: High Brightness Version

Product: QBLP669-Y-2897	Date: January 14, 2021	Page 1 of 9
	Version# 1.0	

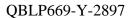




Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	4
Absolute Maximum Rating	
Characteristic Curves	5
Solder Profile & Footprint	6
Packing	7
Labeling	8
Ordering Information	8
Revision History	g
Disclaimer	

Product: QBLP669-Y-2897	Date: January 14, 2021	Page 2 of 9
	Version# 1.0	



Introduction

Feature:

- Package in tape and reel
- Clear lens
- Ultra bright reflector type PLCC2 LED
- AlInGaP technology for Yellow
- Viewing angle: 120 deg typ.
- High Bright version

Description:

These ultra bright reflector type PLCC2 LEDs have a height profile of 1.90mm. Combination of high brightness output and robust package, these LEDs are ideal for architecture lighting, status indication, and industrial equipment lighting applications.

Application:

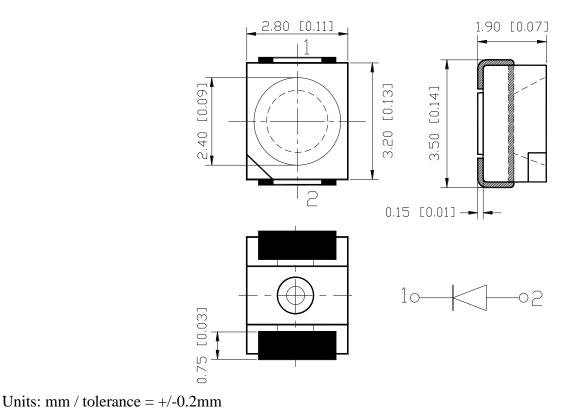
- Status indication
- Industrial equipment backlighting
- Architecture lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Product: QBLP669-Y-2897 Date: January 14, 2021 Page 3 of 9

Version# 1.0



Electrical / Optical Characteristic (Ta=25 °C)

Product Color		Color I _F (mA)		V _F (V)		λ _D (nm)		I _V (mcd)	
Product	Color	T T	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP669-Y-2897	Yellow	20	2.0	2.5	585	590	595	630	880

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 to +105	-40 to +105	260

^{*}Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
	1.7	2.5	V

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
R	630	800	
S	800	1000	mcd
Т	1000	1250	

Dominant Wavelength λ_D @ I_F =20mA

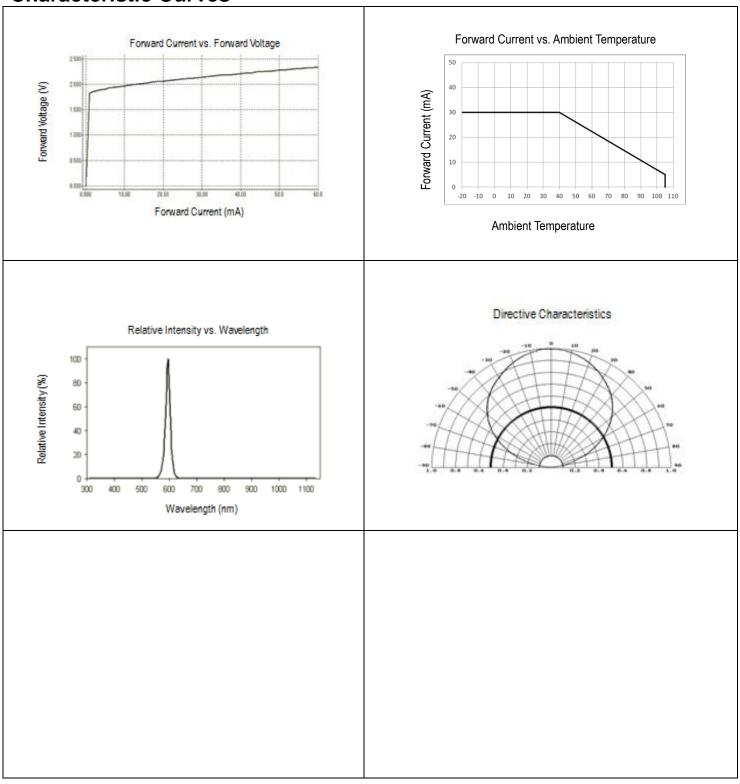
Bin	Min.	Max.	Unit
m	585	590	nm
n	590	595	nm

Product: QBLP669-Y-2897	Date: January 14, 2021	Page 4 of 9
	Version# 1.0	

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



Characteristic Curves

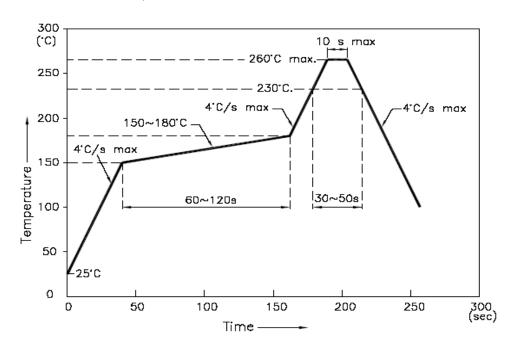


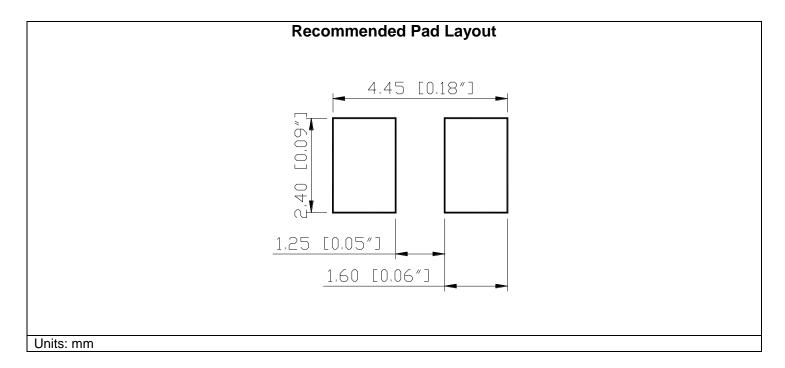
Product: QBLP669-Y-2897	Date: January 14, 2021	Page 5 of 9
	Version# 1.0	



Solder Profile & Footprint

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



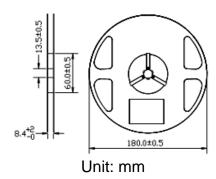


Product: QBLP669-Y-2897	Date: January 14, 2021	Page 6 of 9
	Version# 1.0	

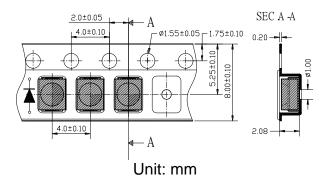


Packing

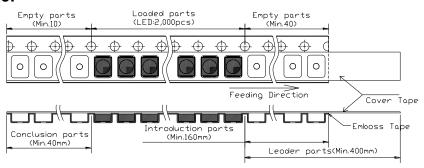
Reel Dimension:



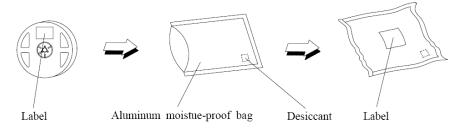
Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



Product: QBLP669-Y-2897	Date: January 14, 2021	Page 7 of 9
	Version# 1.0	



Labeling

Part No:
Customer P/N:
Item:
Q'ty:
Vf:
Iv:
WI:
Date:

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP669-Y-2897	QBLP669-Y-2897	Iv=630mcd min. @ 20mA / Color=585nm to 595nm	2,000 units

Product: QBLP669-Y-2897	Date: January 14, 2021	Page 8 of 9
	Version# 1.0	

QBLP669-Y-2897 PLCC2 LED

Revision History

Description:	Revision #	Revision Date
New Release of QBLP669-Y-2897	V1.0	01/14/2021

Disclaimer

QT-BRIGHTEK reserves the right to make changes without further notice to any products herein to improve reliability, function or design. QT-BRIGHTEK does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights, nor the rights of others.

Life Support Policy

QT-BRIGHTEK's products are not authorized for use as critical components in life support devices or systems without the express written approval of QT-BRIGHTEK. As used herein:

- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 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: QBLP669-Y-2897	Date: January 14, 2021	Page 9 of 9
	Version# 1.0	