

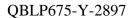
# QT-Brightek PLCC Series

**2014 PLCC2 LED** 

Part No.: QBLP675-Y-2897

2897: High Brightness Version

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#### Introduction

#### Feature:

- Package in tape and reel
- Water clear lens
- Ultra bright reflector type 2014 PLCC2 LED
- AlInGaP technology
- Viewing angle: 120 deg. Typ.

#### **Description:**

This ultra-bright 2014 LED has a height profile of 1.30mm. Combination of high brightness output and robust package, this LED is ideal for back lighting, architecture lighting, and industrial equipment lighting applications.

#### **Application:**

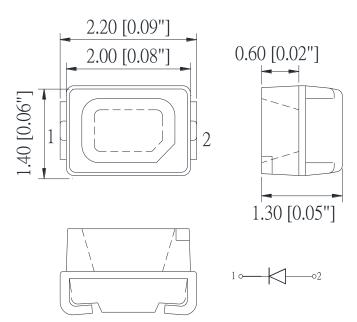
- Status indication
- Industrial equipment backlighting
- Architecture lighting

#### **Certification & Compliance:**

- TS16949
- ISO9001
- RoHS Compliant



#### **Dimension:**



Units: mm / tolerance = +/-0.2mm

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

Product	Color	I <sub>F</sub> (mA)	$V_{F}$	(V)		λ <sub>D</sub> (nm)		l <sub>v</sub> (m	icd)
Product Colo	COIOI	JI IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP675-Y-2897	Yellow	20	2.0	2.5	585	590	595	250	468

## **Absolute Maximum Rating**

Material	P <sub>d</sub> (m\	V) 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)**
AllnGaP	75	30	125	5	-40 ~ +80	-40 ~ +85	260

<sup>\*</sup>Duty 1/8 @ 1KHz

## Forward Voltage V<sub>F</sub> @ I<sub>F</sub>=20mA

Bin	Min.	Max.	Unit
	1.7	2.5	V

## Dominant Wavelength $\lambda_D$ @ $I_F$ =20mA

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

## Luminous Intensity I<sub>V</sub> @ I<sub>F</sub>=20mA

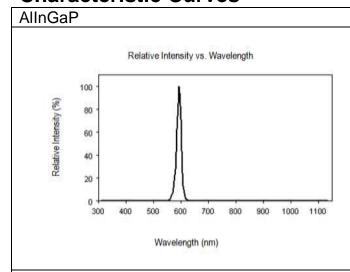
Bin	Min.	Max.	Unit
N	250	320	
0	320	400	
Р	400	500	mcd
Q	500	630	
R	630	800	

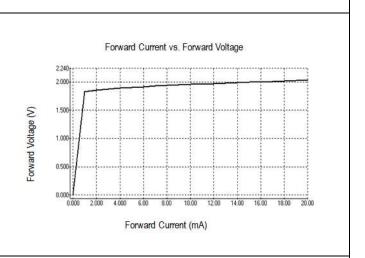
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<sup>\*\*</sup>IR Reflow for no more than 10 sec @ 260 °C

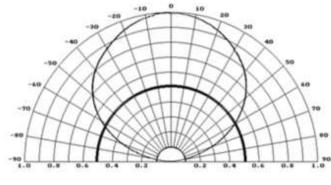


## **Characteristic Curves**





## Directive Characteristics

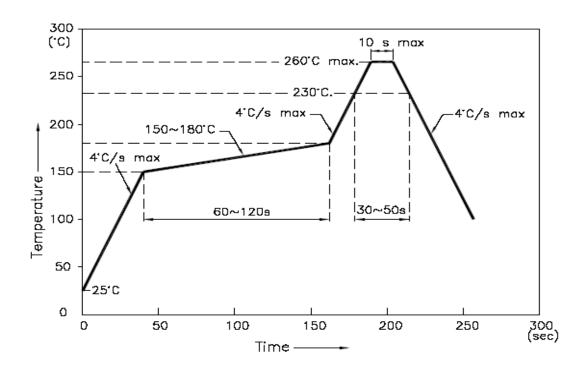


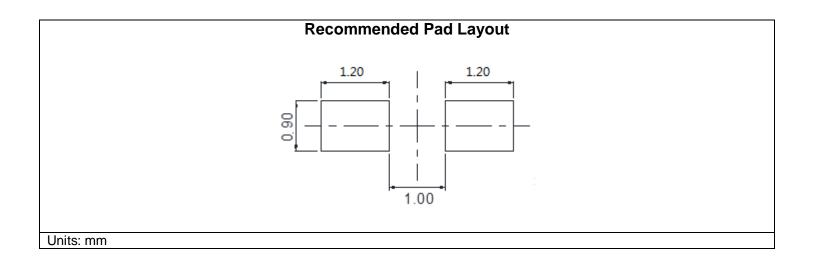
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## **Solder Profile & Footprint**

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



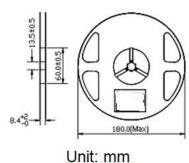


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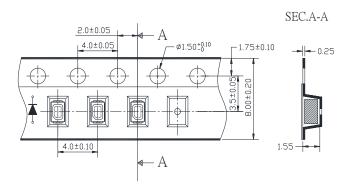


## **Packing**

#### Reel Dimension:

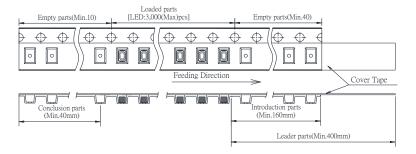


#### Tape Dimension:

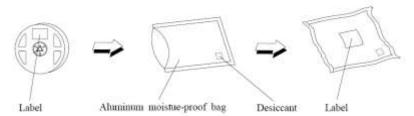


Unit: mm

#### Arrangement of Tape:



## Packaging Specification:



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## Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
lv:
WI:
Date:

**Ordering Information** 

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP675-Y-2897	QBLP675-Y-2897	Iv=468mcd typ. @ 20mA / Color=585nm to 595nm	3,000 units

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**Revision History** 

Description:	Revision #	Revision Date
New Release of QBLP675-Y-2897	V1.0	07/17/2019

#### **Disclaimer**

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- 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.

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