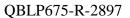


QT-Brightek PLCC Series 2014 PLCC2 LED

Part No.: QBLP675-R-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:

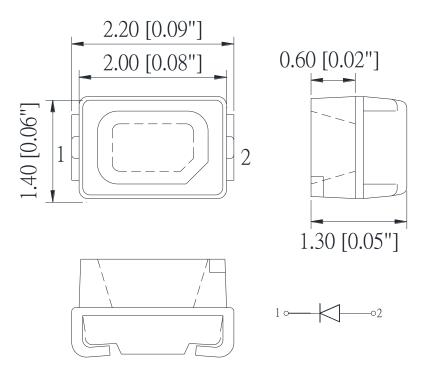
- Status indication
- Industrial equipment backlighting
- Architecture lighting

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 _F (mA)	V _F	(V)	_	λ _D (nm)		l _v (m	ıcd)
Product	Coloi	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP675-R-2897	Red	20	1.9	2.5	615	620	630	250	467

Absolute Maximum Rating

Material	P _d (m\	V) 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=20mA

Bin	Min.	Max.	Unit
	1.7	2.5	V

Dominant Wavelength λ_D @ I_F =20mA

Bin	Min.	Max.	Unit
S	615	620	
t	620	625	nm
u	625	630	

Luminous Intensity I_V @ I_F=20mA

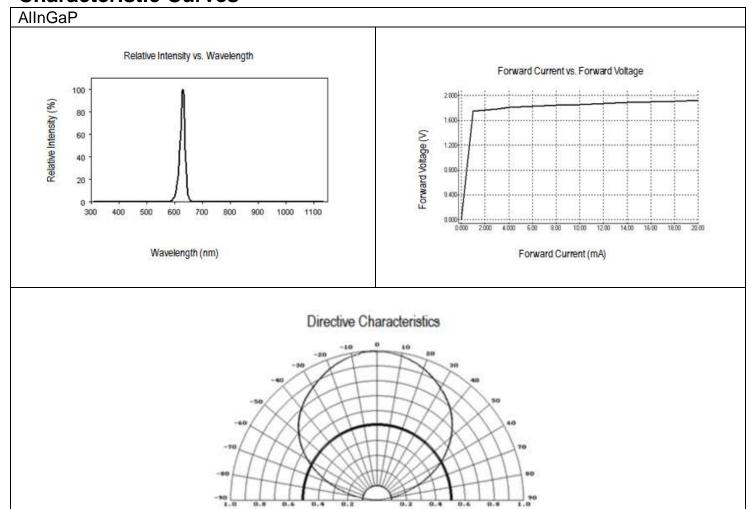
Bin	Min.	Max.	Unit
N	250	320	
0	320	400	
Р	400	500	mcd
Q	500	630	
R	630	800	

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



Characteristic Curves

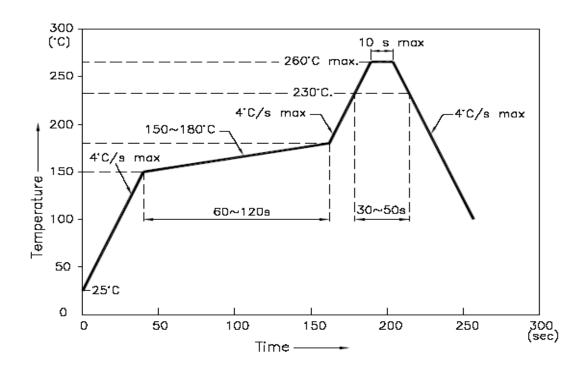


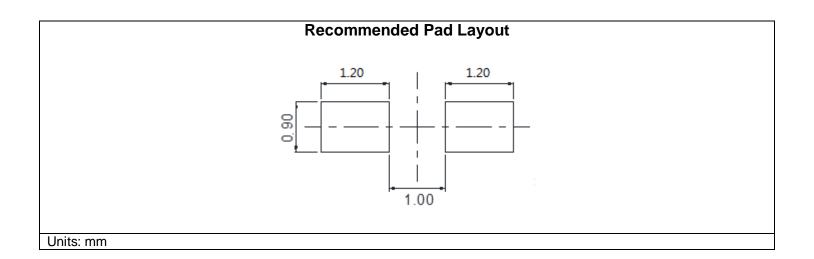
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Solder Profile & Footprint

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



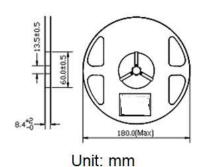


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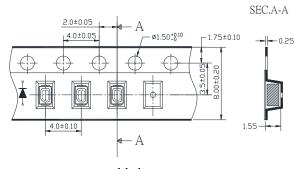


Packing

Reel Dimension:

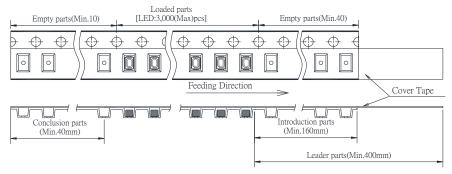


Tape Dimension:

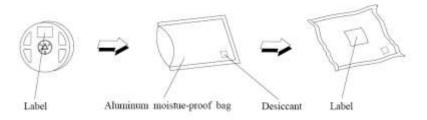


Unit: mm

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-R-2897	QBLP675-R-2897	Iv=467mcd typ. @ 20mA / Color=615nm to 630nm	3,000 units

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Revision History

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

Disclaimer

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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.

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