

QT-Brightek PLCC Series

2014 PLCC2 LED

Part No.: QBLP675-AG-2897

2897: High Brightness Version

Product: QBLP675-AG-2897	Date: July 17 th , 2019	Page 1 of 9
	Version# 1.0	

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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:

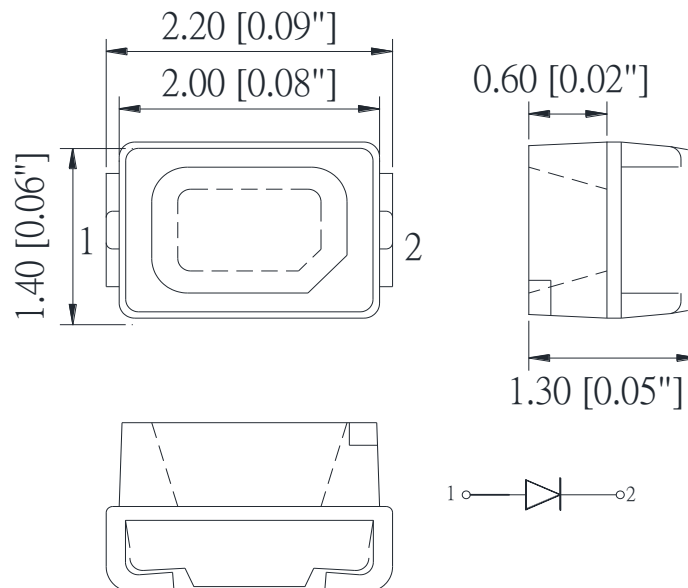
This ultra-bright 2014 LED has a height profile of 1.30mm. Combination of high brightness output and robust package, this LED is ideal for back lighting, architecture lighting, and industrial equipment lighting applications.

Application:

- Status indication
- Industrial equipment backlighting
- Architecture lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant

**Dimension:**

Units: mm / tolerance = +/-0.2mm

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			I _V (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
QBLP675-AG-2897	Yellow Green	20	2.0	2.5	565	573	576	40	65

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SO L} (°C)**
AllnGaP	75	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=20mA

Bin	Min.	Max.	Unit
<input type="checkbox"/>	1.7	2.5	V

Dominant Wavelength λ_D @ I_F=20mA

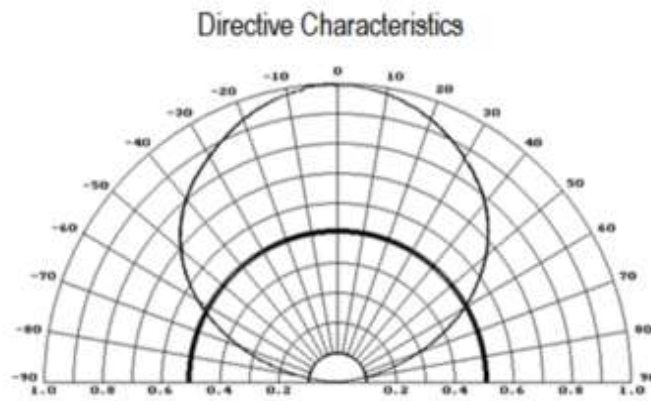
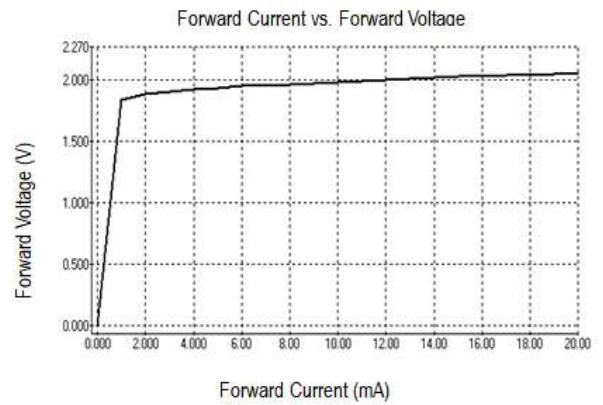
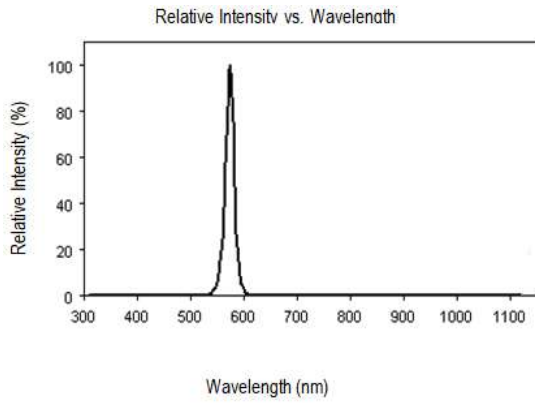
Bin	Min.	Max.	Unit
h	565	568	nm
i	568	572	
j	572	576	

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
F	40	50	mcd
G	50	63	
H	63	80	
I	80	100	
J	100	125	

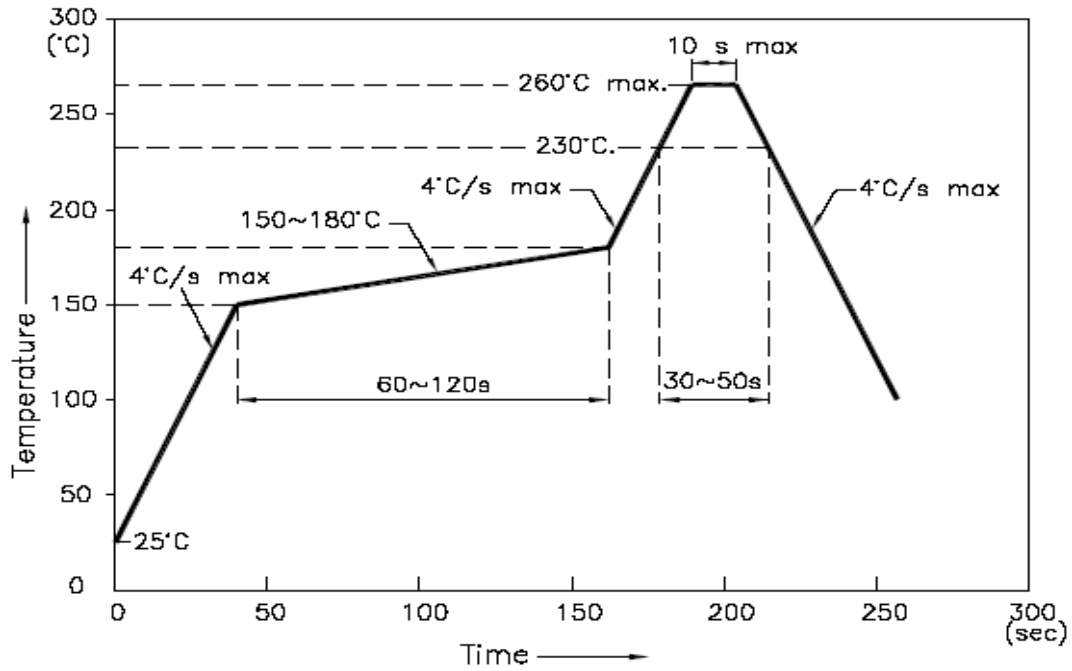
Characteristic Curves

AllnGaP

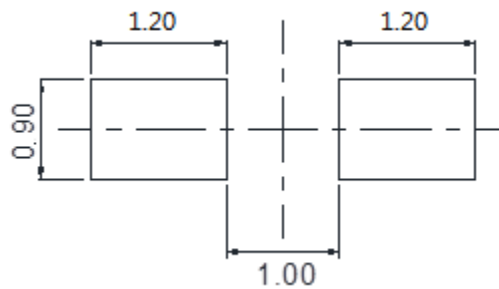


Solder Profile & Footprint

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



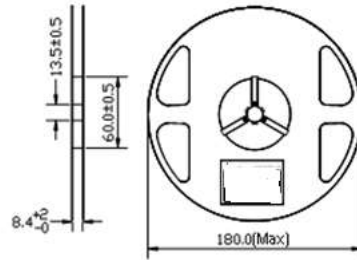
Recommended Pad Layout



Units: mm

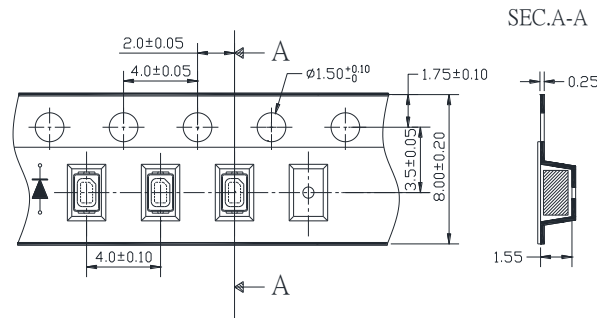
Packing

Reel Dimension:



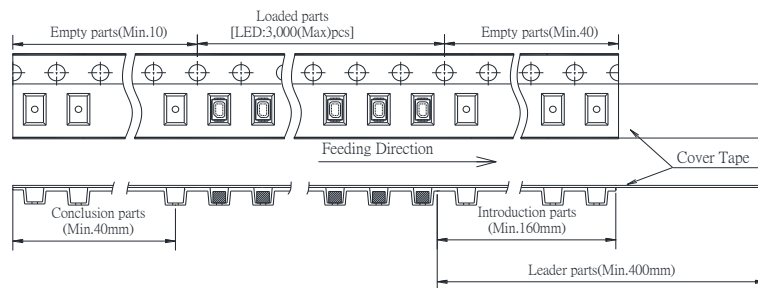
Unit: mm

Tape Dimension:

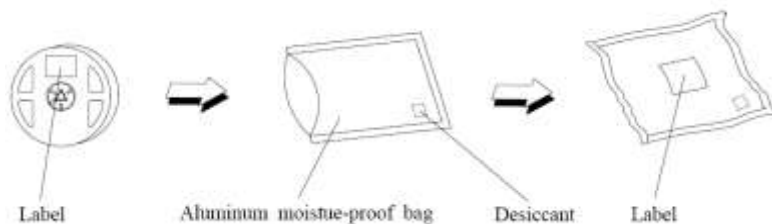


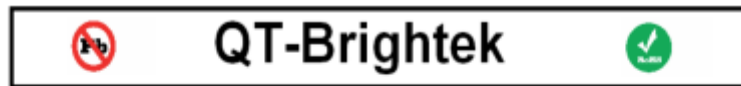
Unit: mm

Arrangement of Tape:



Packaging Specification:



Labeling

Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

Vf: _____

Iv: _____

Wl: _____

Date: _____

Made in China**Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP675-AG-2897	QBLP675-AG-2897	Iv=65mcd typ. @ 20mA / Color=565nm to 576nm	3,000 units

Revision History

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

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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.