

QT-Brightek PLCC Series

2014 PLCC2 LED

Part No.: QBLP675-IG-2897

2897: High Brightness Version

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	Version# 1.0	

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Introduction

Feature:

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

Description:

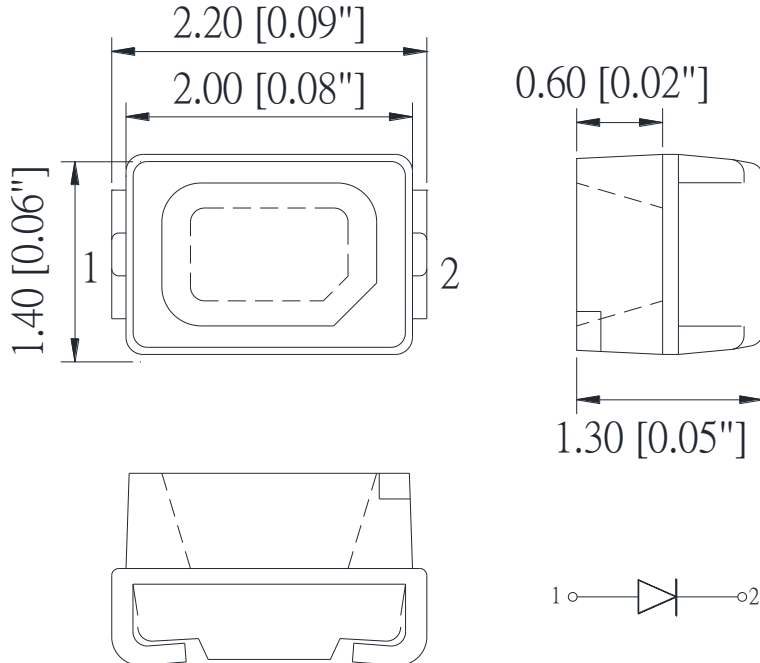
This ultra-bright 2014 LED has a height profile of 1.30mm. Combination of high brightness output and robust package, this LED is ideal for back lighting, architecture lighting, and industrial equipment lighting applications.

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-IG-2897	True Green	20	3.2	3.7	518	524	528	740	1120

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)**
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=20mA

Bin	Min.	Max.	Unit
f	2.8	3.1	V
g	3.1	3.4	
h	3.4	3.7	

Dominant Wavelength λ_D @ I_F=20mA

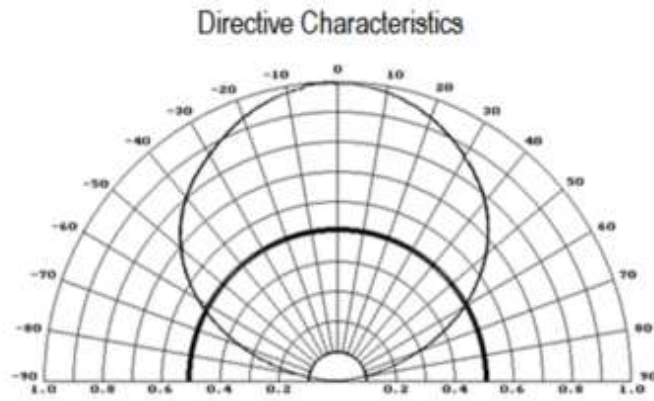
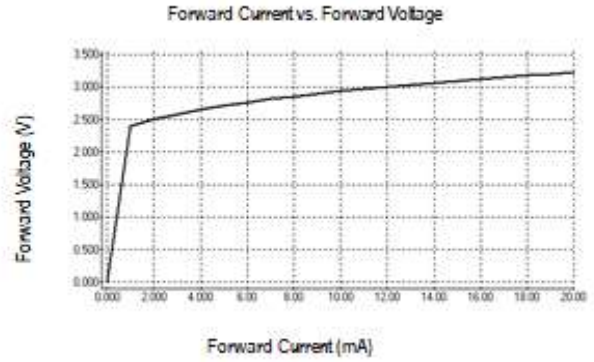
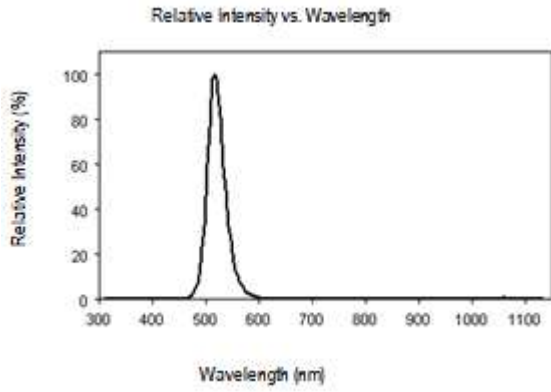
Bin	Min.	Max.	Unit
GF	518	523	nm
GG	523	528	

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
AY	740	925	mcd
AZ	925	1160	
BA	1160	1450	
BB	1450	2000	

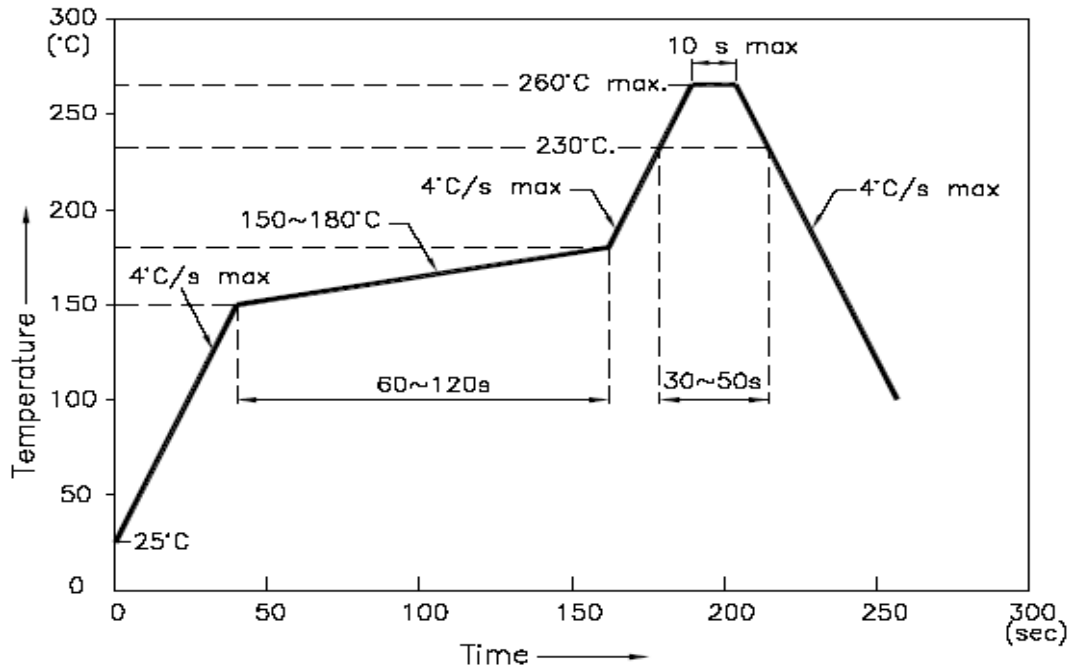
Characteristic Curves

InGaN

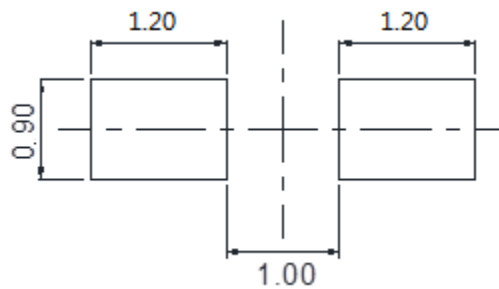


Solder Profile & Footprint

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



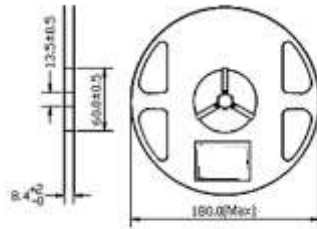
Recommended Pad Layout



Units: mm

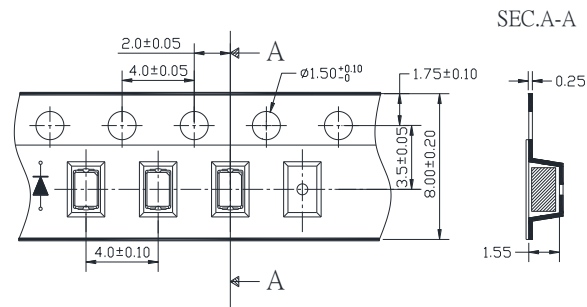
Packing

Reel Dimension:



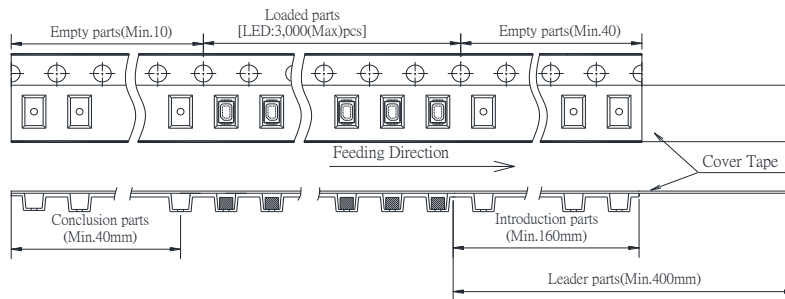
Unit: mm

Tape Dimension:

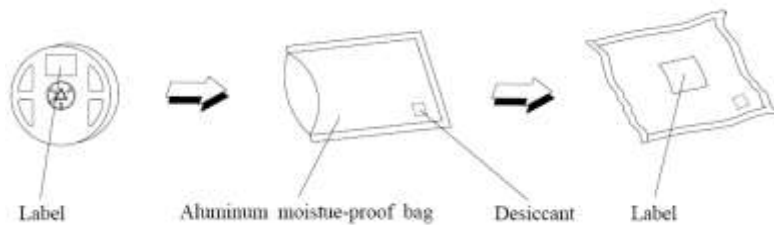


Unit: mm

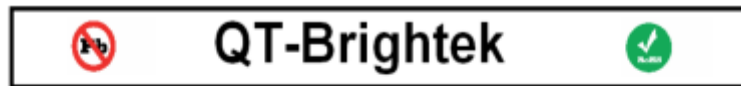
Arrangement of Tape:



Packaging Specification:



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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-IG-2897	QBLP675-IG-2897	Iv=1120mcd typ. @ 20mA / Color=518nm to 528nm	3,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP675-IG-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.