

QT-Brightek PLCC Series

PLCC2 Green LED

Part No.: QBLP670-IG-2897

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	Version# 1.2	

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Introduction

Feature:

- Clear lens
- Package in tape and reel
- Ultra bright reflector type PLCC2 LED
- InGaN technology
- Viewing Angle: 120deg typ.

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:

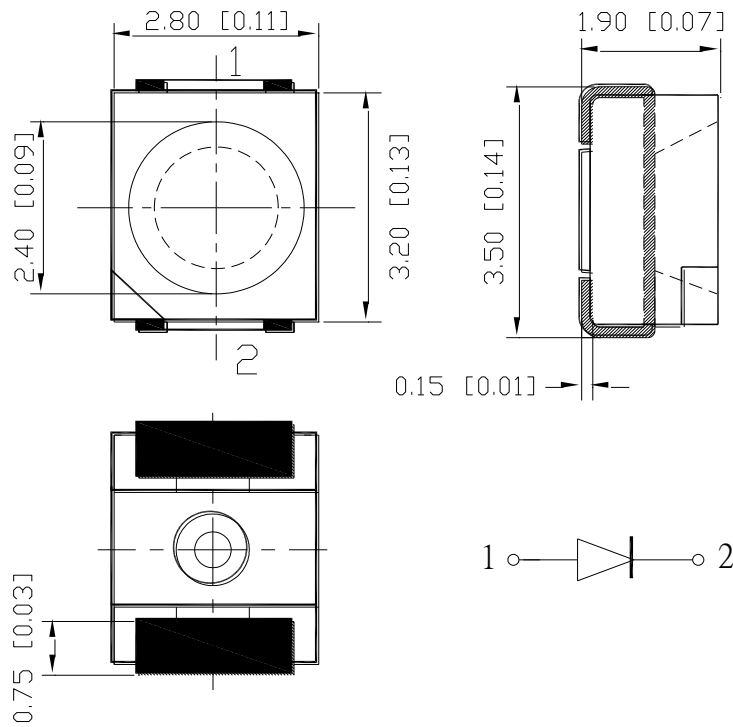
- Status indication
- Industrial equipment backlighting
- Architecture lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



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.
QBLP670-IG-2897	True Green	20	3.3	3.7	520	525	530	900	1400

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)**
InGaN	120	30	100	5	-40 to +85	-40 to +100	260

*Duty 1/8 @ 1KHz

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

Forward Voltage V_F for @ I_F=20mA

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

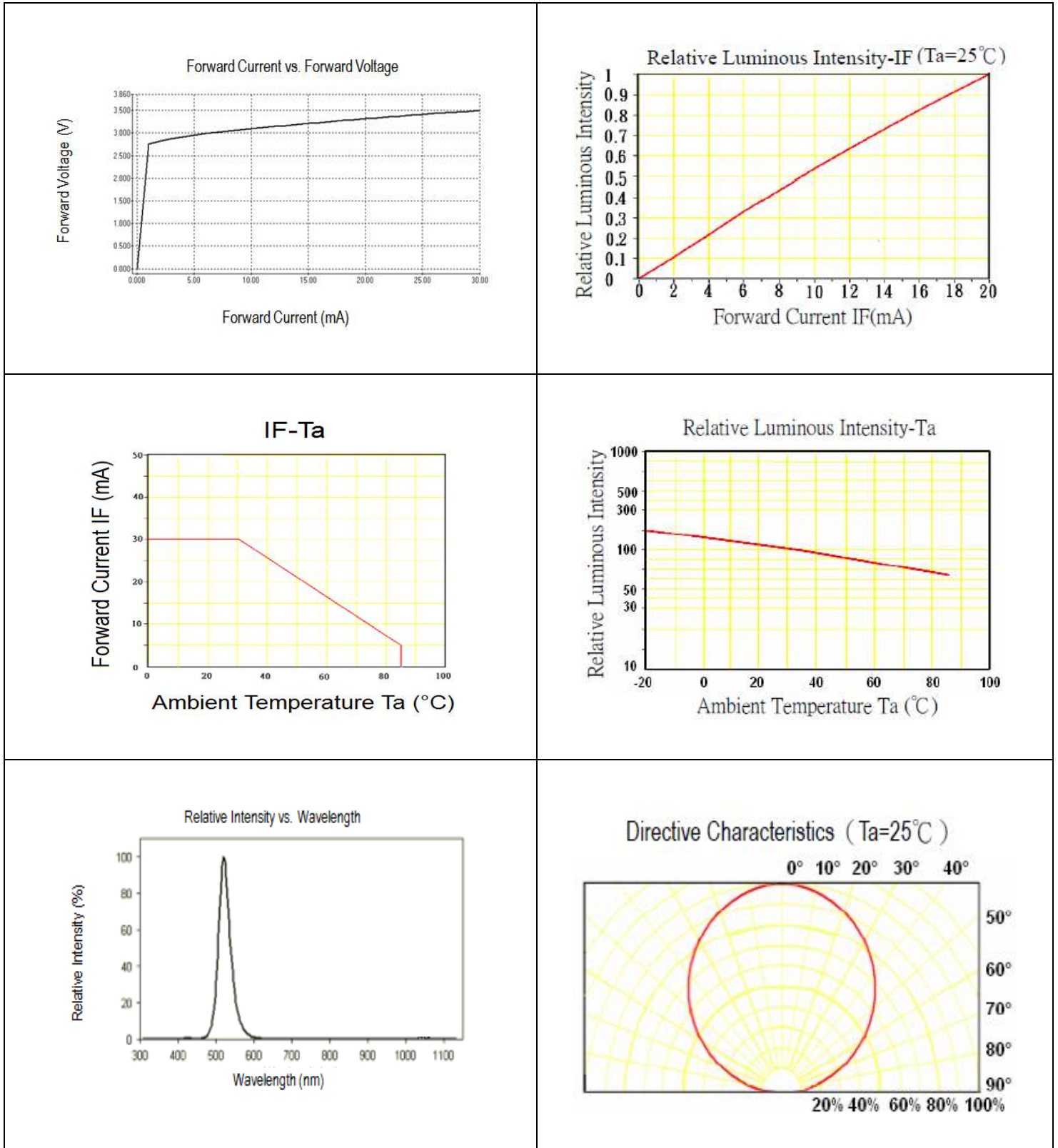
Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
1	900	1000	mcd
2	1000	1250	
3	1250	1600	
4	1600	2000	
5	2000	2500	

Dominant Wavelength λ_D @ I_F=20mA

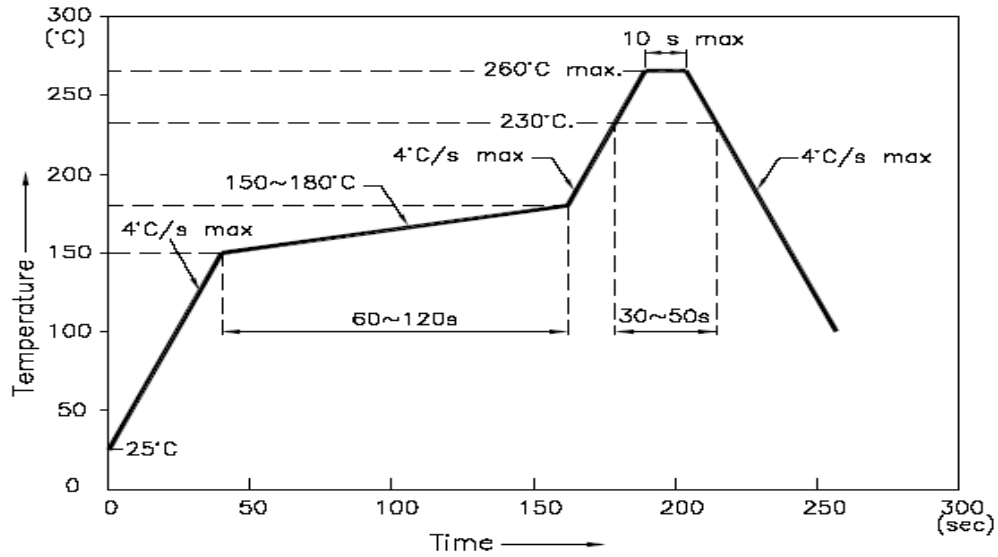
Bin	Min.	Max.	Unit
U	520	522.5	nm
V	522.5	525	
W	525	527.5	
X	527.5	530	

Characteristic Curves

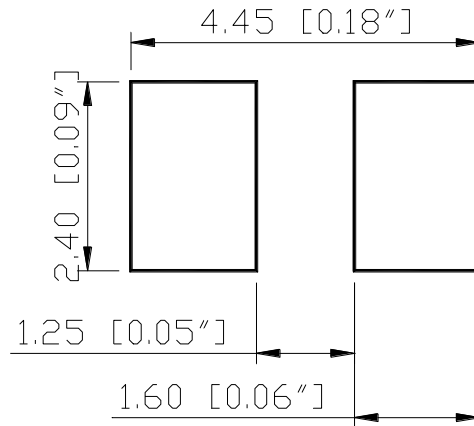


Solder Profile & Footprint

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



Recommended Pad Layout

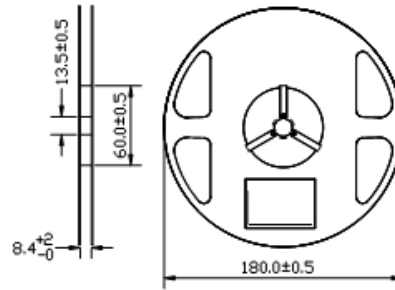


Units: mm

Tolerance: $\pm 0.2\text{mm}$

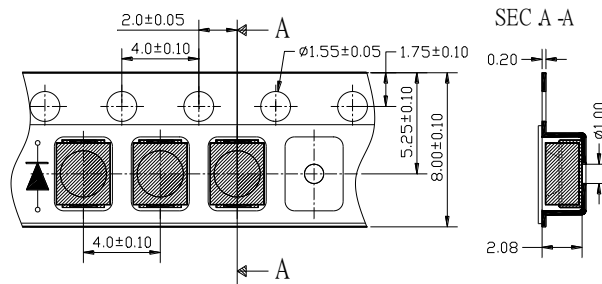
Packing

Reel Dimension:



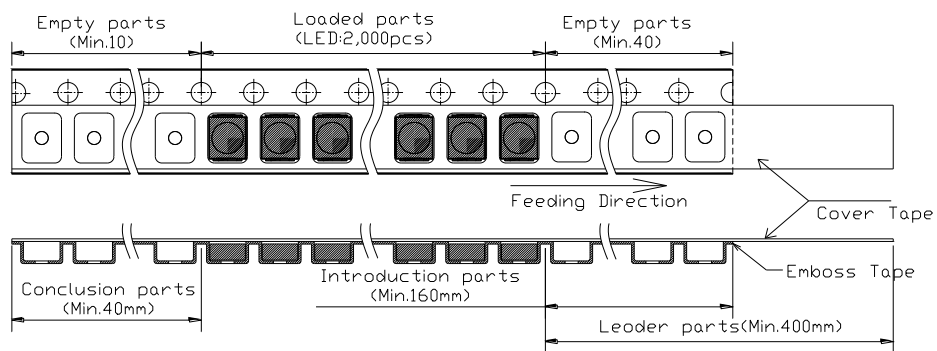
Unit: mm

Tape Dimension:

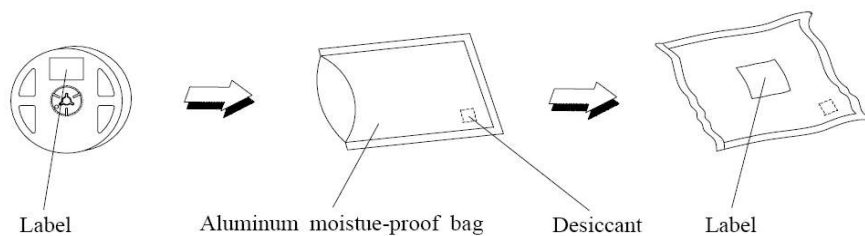


Unit: mm

Arrangement of Tape:



Packaging Specification:



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Labeling

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

Made in China**Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP670-IG-2897	QBLP670-IG-2897	Iv=1400mcd typ. @ 20mA / λ _D =520nm to 530nm	2,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP670-IG (High Bright)	V1.0	02/10/2014
Update solder profile & footprint	V1.1	02/04/2016
Update P/N to QBLP670-IG-2897	V1.2	12/08/2020

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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.