

QT-Brightek PLCC-4 Series

PLCC-4 Yellow LED

Part No.: QBLP677-Y

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Introduction

Feature:

- Water Clear lens
- Ultra bright PLCC4 Yellow LED
- Straight line chip mount technology
- AlInGaP technology for Yellow
- 120 degree viewing angle

Description:

This PLCC4 Yellow LEDs have a height profile of 1.90mm. Combination of high brightness output and robust package, this LED is ideal for architecture lighting, status indication, and color mixing applications.

Application:

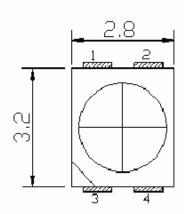
- Status indication
- Industrial equipment backlighting
- Architecture lighting

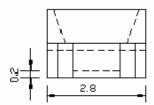
Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant

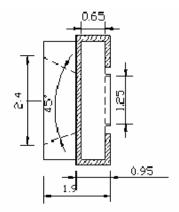


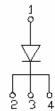
Dimension:





Units: mm / tolerance = +/-0.1mm





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Electrical / Optical Characteristic (Ta=25 °C)

Product Colo	Color	1 (m 1)	V _F (V)			λ _D (nm)		I _V (m	cd)
	Color	I _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP677-Y	Yellow	20	2.0	2.4	582	588	594	600	780

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)**
AllnGaP	120	50	100	5	-40 ~ +100	-40 ~ + 100	260

^{*}Duty 1/10 @ 10KHz

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
С	1.9	2.0	
D	2.0	2.1	
E	2.1	2.2	V
F	2.2	2.3	
G	2.3	2.4	

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
13	600	780	
14	780	1000	mcd
15	1000	1300	

Dominant Wavelength λ_D @ $I_F=20mA$

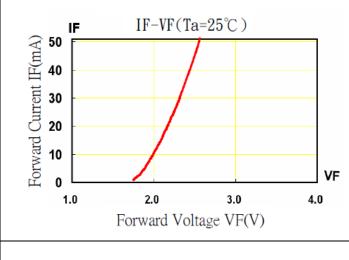
Bin	Min.	Max.	Unit
В	582	585	
С	585	588	nm
D	588	591	nm
Е	591	594	

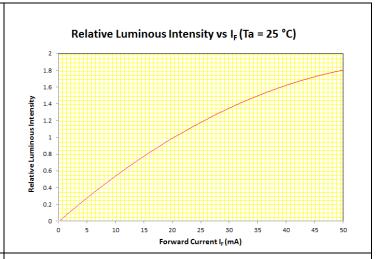
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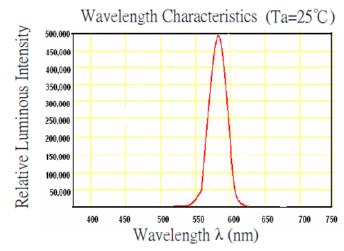
^{**}IR Reflow for no more than 10 sec @ 260 $^{\circ}$ C

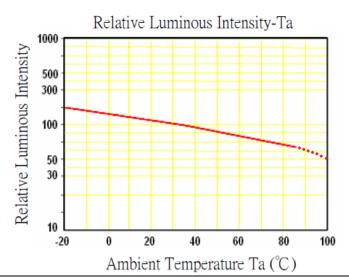


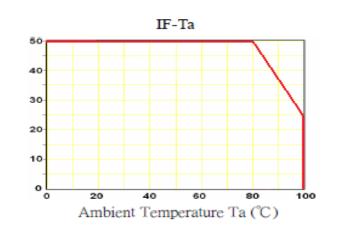
Characteristic Curves

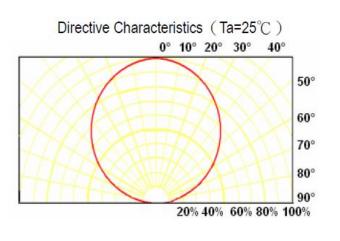










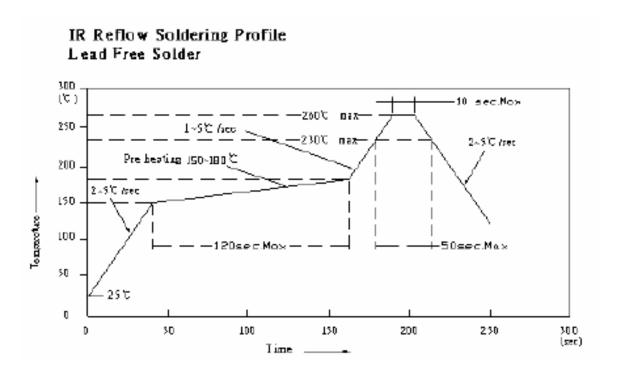


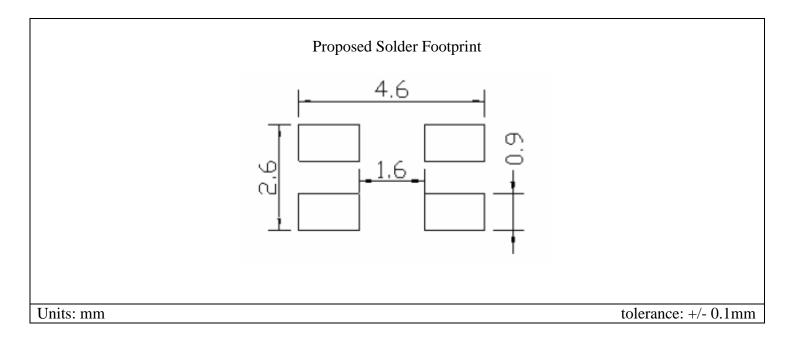
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Solder Profile & Footprint

- -Recommended tin solder specifications: melting temperature in the range of 178~192 °C
- -The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



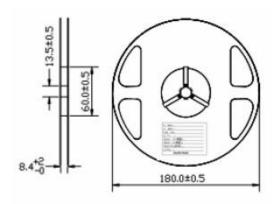


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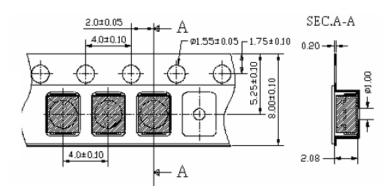
Packing

Reel Dimension:



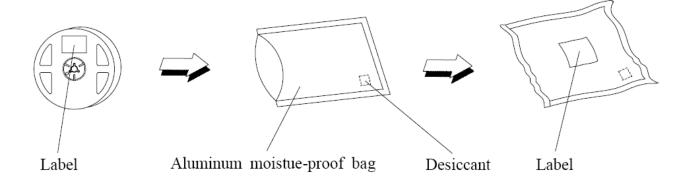
Unit: mm

Tape Dimension:



Unit: mm

Packaging Specification:



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Labeling

😥 QT-Brightek 🙆
Part No:
Customer P/N:
Item:
Q'ty:
Vf:
lv:
WI:
Date: Made in China

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP677-Y	QBLP677-Y-1888	Iv=1000mcd Typ. @ I _F =20mA / Color: 582~594nm	2,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP677-Y	V1.0	03/28/2014

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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