

QT-Brightek Chip LED Series SMD 0603 LED

Part No.: QBLP601-O5-2897

5: 5mA

2897: High Brightness Version

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Introduction

Feature:

- Water clear lens
- Package in tape and reel
- Ultra bright 0603 LED package
- AllnGaP technology
- Viewing angle: 140 deg typ.

Description:

These ultra bright 0603 LEDs have a height profile of 0.60mm. Combination of high brightness output and small footprint, these LEDs are ideal for keypad backlighting and status indication.

Application:

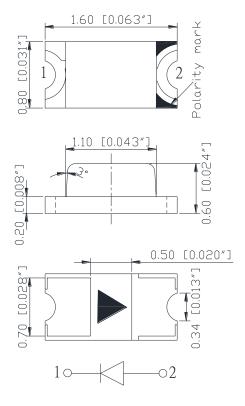
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I (m A)	V_{F}	(V)		λ _D (nm)		λ _P (nm)	I _V (m	cd)
Product	Coloi	I _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Тур.	Min.	Тур.
QBLP601-O5-2897	Orange	20	2.0	2.5	600	605	610	610	50	90

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)**
iviatei iai	Ed (IIIAA)	IF (IIIA)	IFP (IIIA)	VR (V)	I OP (C)	IST (C)	I _{SOL} (°C)**
AllnGaP	69	30	125	5	-40 ~ +80	-40 ~ +85	260

^{*}Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=5mA

Bin	Min.	Max.	Unit
Α	1.7	2.0	V
В	2.0	2.3	V

Luminous Intensity I_V @ I_F=5mA

	J • • •		
Bin	Min.	Max.	Unit
G	50	63	
Н	63	80	
1	80	100	mcd
J	100	125	
K	125	160	

Dominant Wavelength λ_D @ $I_F=5mA$

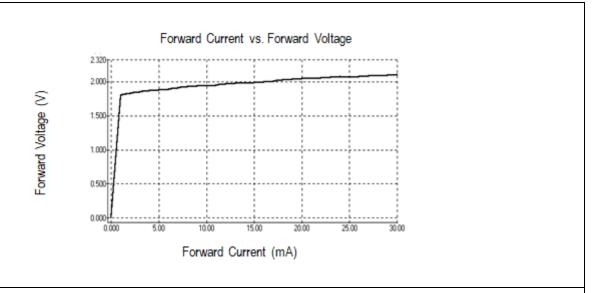
Bin	Min.	Max.	Unit
р	600	605	nm
q	605	610	nm

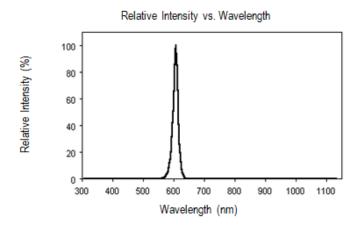
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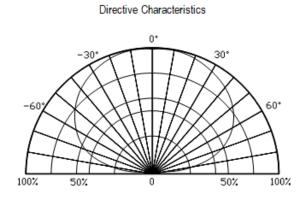
^{**}IR Reflow for no more than 10 sec @ 260 °C



Characteristic Curves





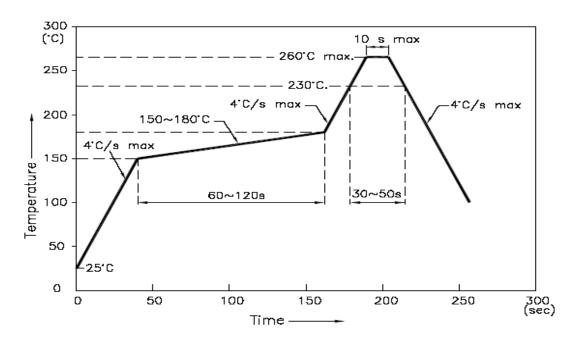


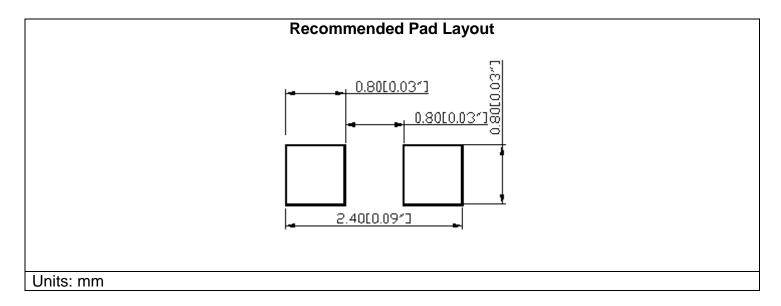
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Solder Profile & Footprint

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



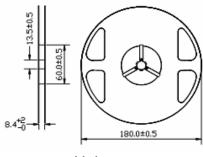


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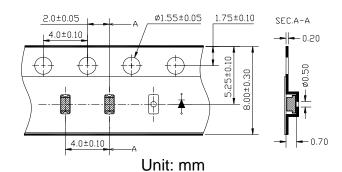
Packing

Reel Dimension:

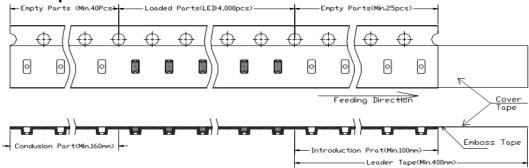


Unit: mm

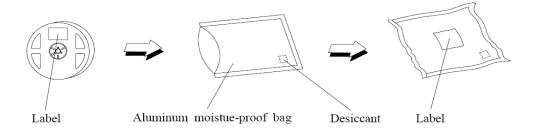
Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



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Labeling

	6	QT-Brighte	k 🙆
Par	<mark>∭∭∭∭</mark> t No:		
Cus	stomer F	P/N:	
<u>lten</u>	า:		
Q'ty	/ :		
<u>∨f:</u>			
Iv:			
WI:			
<u>Dat</u>		Made in Chi	na

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP601-O5-2897	Iv=90mcd typ. @ I_F =5mA / λ_D =600nm to 610nm	4,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-O5-2897	V1.0	08/14/2023

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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