

QT-Brightek Chip LED Series

0603 SMD Chip LED

Part No.: QBLP601L-2IW-2897

**L: Low Profile
2897: High Brightness Version**

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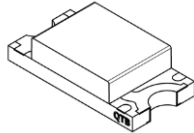
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Introduction

Feature:

- Yellow diffused lens
- Package in tape and reel
- Compact 0603 package
- Viewing angle: 140° typ.
- Height profile: 0.4mm



Application:

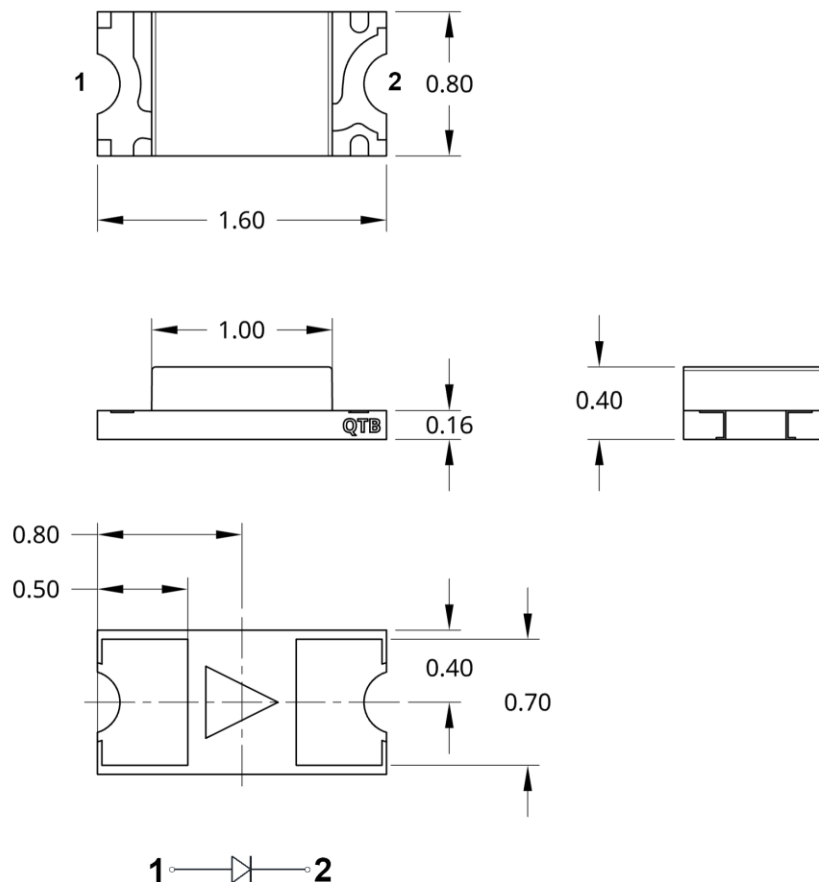
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)		CIE Coordinate	I _V (mcd)	
			Typ.	Max.	Typ.	Min.	Typ.
QBLP601L-2IW-2897	White	20	2.9	3.4	X=0.29 Y=0.282	700	1350

Absolute Maximum Rating

Chip Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
InGaN	102	30	100	5	-40 ~ +80	-40 ~ +85	260

*Duty 1/10 @ 1KHz

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

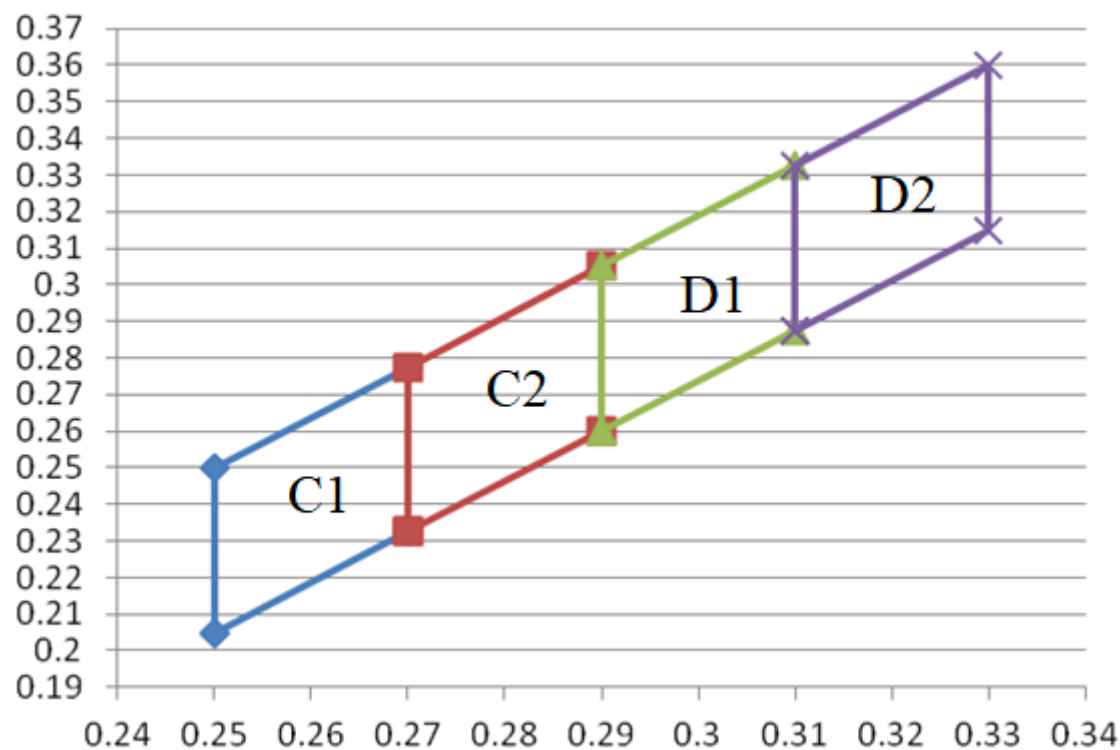
Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
e	2.5	2.8	V
f	2.8	3.1	
g	3.1	3.4	

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
Q	700	885	mcd
R	885	1115	
S	1115	1405	
T	1405	1770	
U	1770	2124	

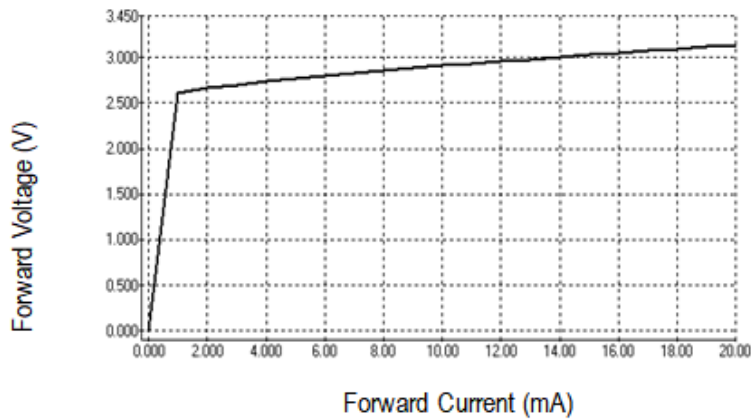
Chromaticity Coordinate Chart



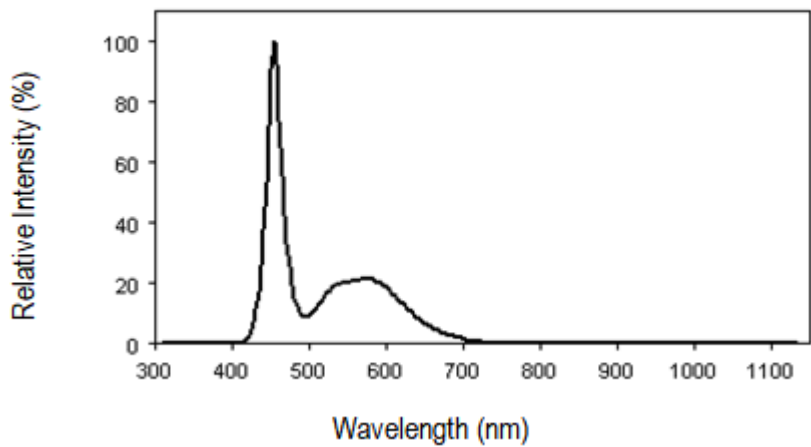
C1	X	0.25	0.25	0.27	0.27
	Y	0.205	0.25	0.2775	0.2325
C2	X	0.27	0.27	0.29	0.29
	Y	0.2325	0.2775	0.305	0.26
D1	X	0.29	0.29	0.31	0.31
	Y	0.26	0.305	0.3325	0.2875
D2	X	0.31	0.31	0.33	0.33
	Y	0.2875	0.3325	0.36	0.315

Characteristic Curves

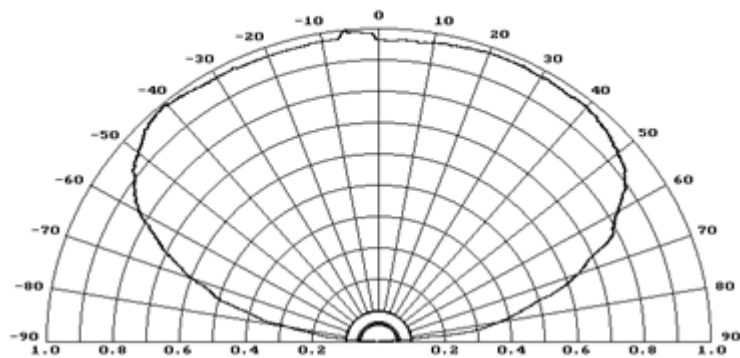
Forward Current vs. Forward Voltage



Relative Intensity vs. Wavelength

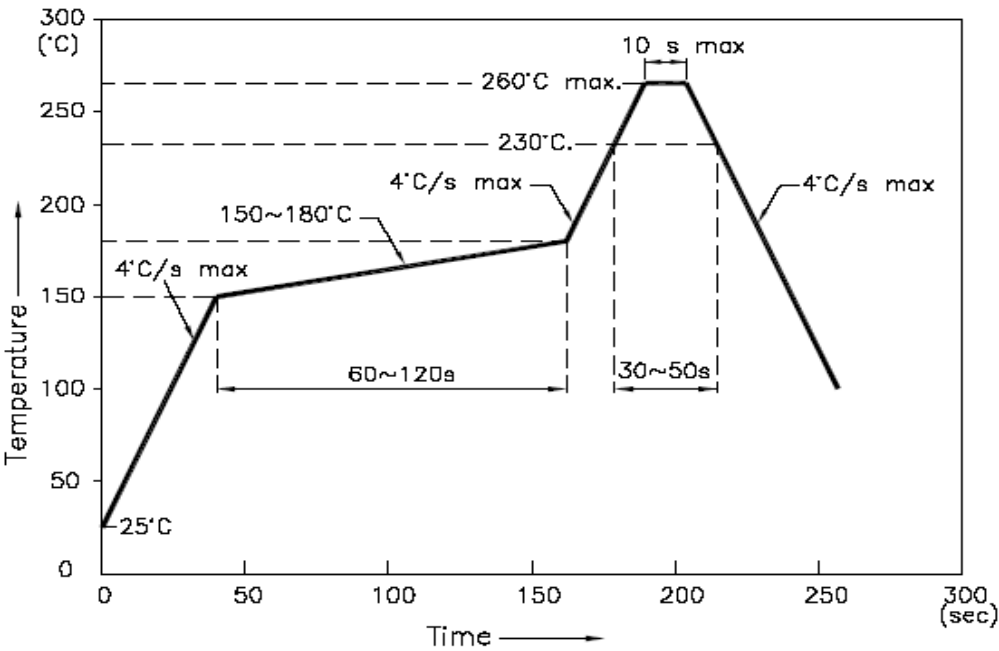


Directive Characteristics

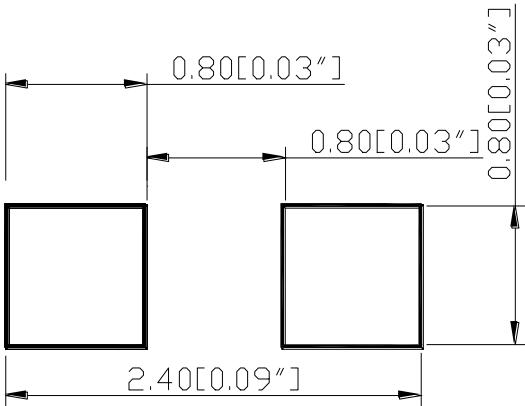


Solder Profile & Footprint

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



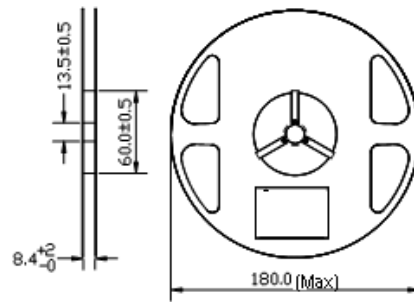
Recommended Pad Layout



Units: mm

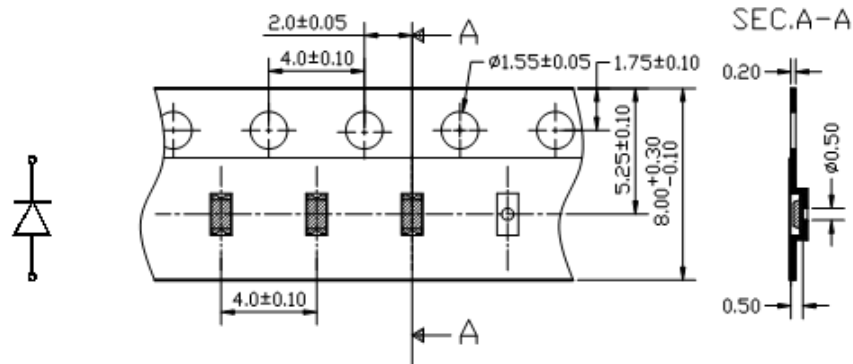
Packing

Reel Dimension:



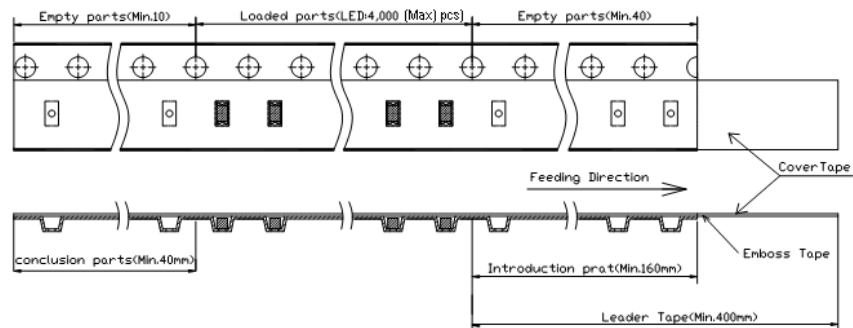
(Unit: mm)

Tape Dimension:

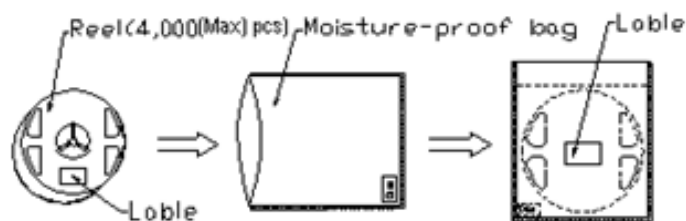


(Unit: mm)

Arrangement of Tape:



Packaging Specifications:





Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-2IW-2897	V1.0	05/08/2025

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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