

QT-Brightek Chip LED Series

0402 SMD Blue LED

Part No.: QBLP595-IB5-2897

5: 5mA

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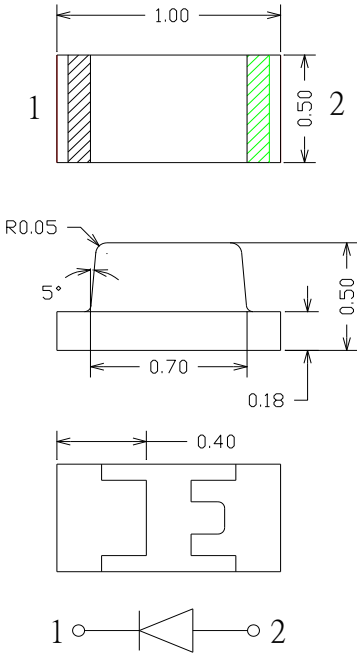
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Introduction

Feature: • Water clear lens • Package in tape and reel • Color: blue • Compact 0402 package • InGaN technology • Viewing angle: 140° typ. • Height profile: 0.5mm	Application: • Status indication • Back lighting application Certification & Compliance: • ISO9001 • RoHS Compliant 
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Dimension:  Units: mm / tolerance = +/-0.1mm
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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			λ _P (nm)	I _V (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Typ.	Min.	Typ.
QBLP595-IB5-2897	Blue	5	2.7	3.4	470	474	480	470	41	72

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=5mA

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

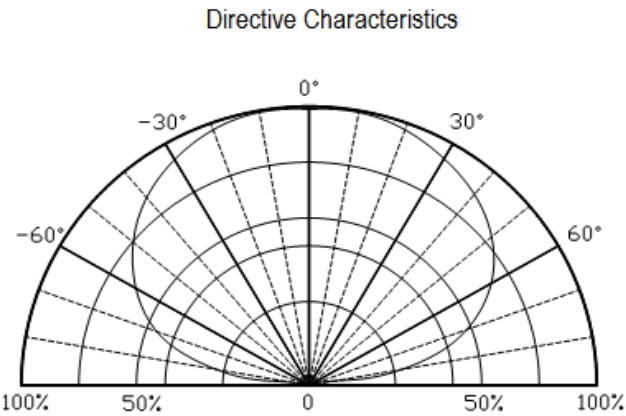
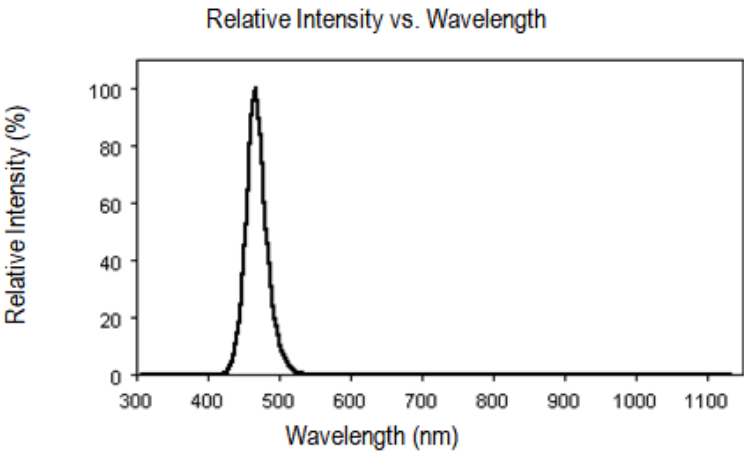
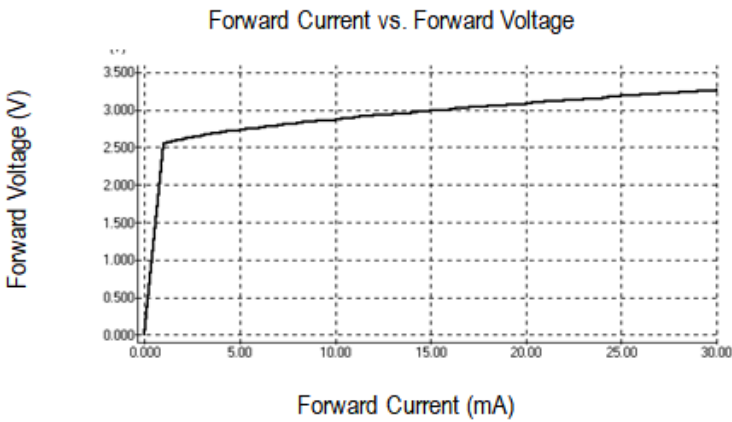
Luminous Intensity I_V @ I_F=5mA

Bin	Min.	Max.	Unit
E	41	52	mcd
F	52	65	
G	65	82	
H	82	103	
I	103	129	

Dominant Wavelength λ_D @ I_F=5mA

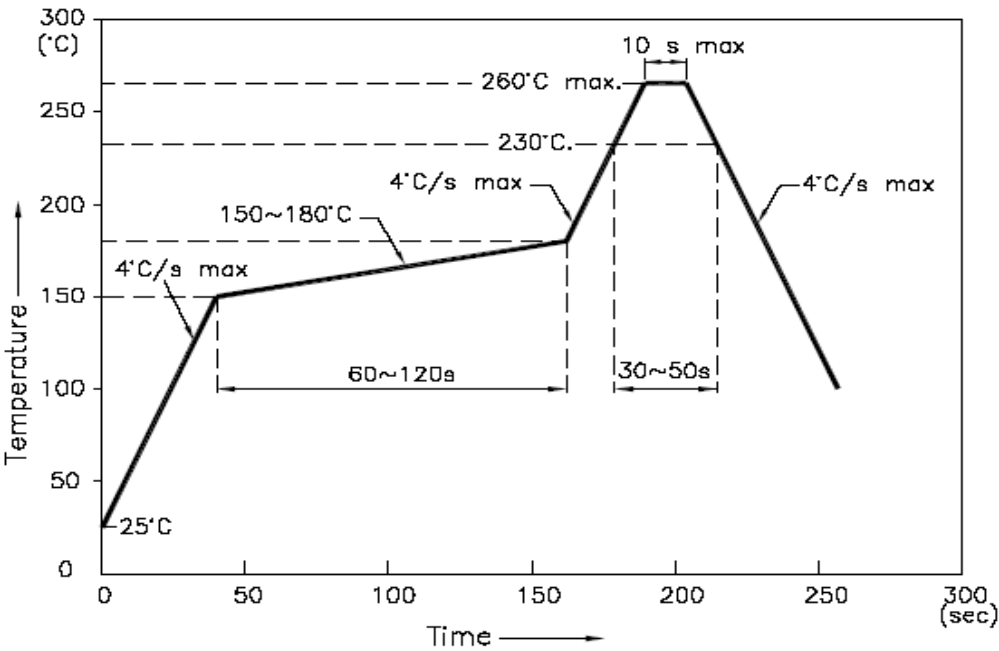
Bin	Min.	Max.	Unit
I	470	472.5	nm
J	472.5	475	
K	475	477.5	
L	477.5	480	

Characteristic Curves

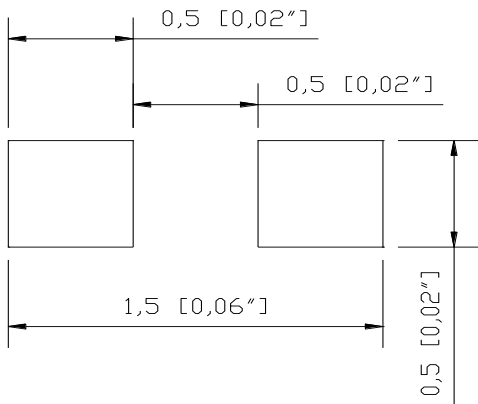


Solder Profile & Footprint

-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

Labeling



Part No:

Customer P/N:

Item:

Q'ty:

Vf:

iv:

WI:

Date:

Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP595-IB5-2897	Iv=72mcd typ. @ 5mA, λ_D =470nm to 480nm	5,000 units



Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-IB5-2897	V1.0	04/11/2025

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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