

QT-Brightek Chip LED Series

0402 SMD Blue LED

Part No.: QBLP595-IB-2897

Table of Contents:

Introduction 3

Electrical / Optical Characteristic (Ta=25 °C) 4

Absolute Maximum Rating 4

Characteristic Curves..... 5

Solder Profile & Footprint..... 6

Packing 7

Labeling 8

Ordering Information 8

Revision History 9

Disclaimer 9

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:

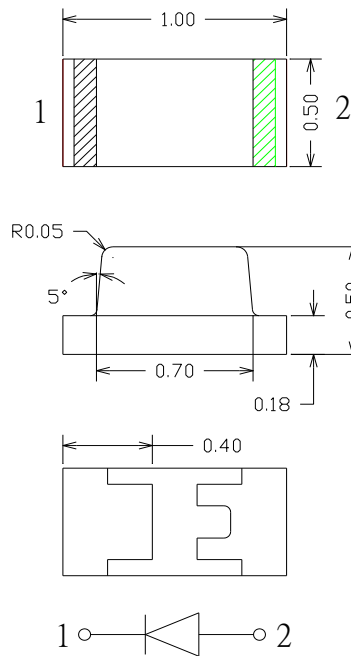
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

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-IB-2897	Blue	20	3.0	3.7	465	470	475	465	100	195

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	111	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
f	2.8	3.1	V
g	3.1	3.4	
h	3.4	3.7	

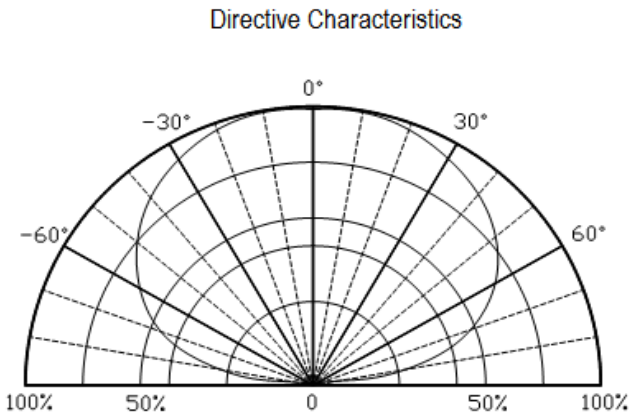
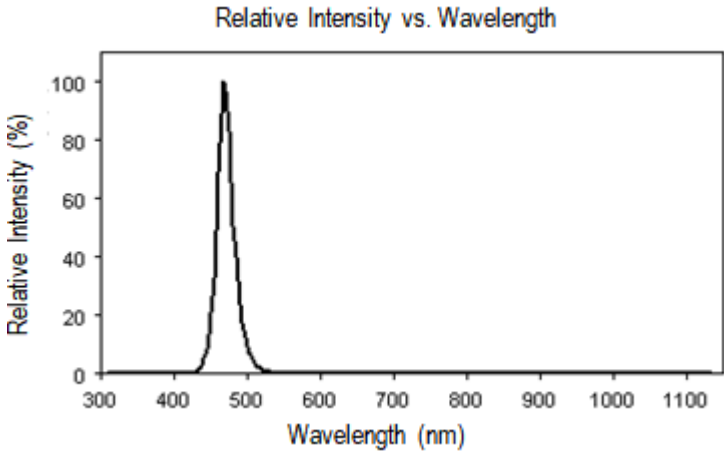
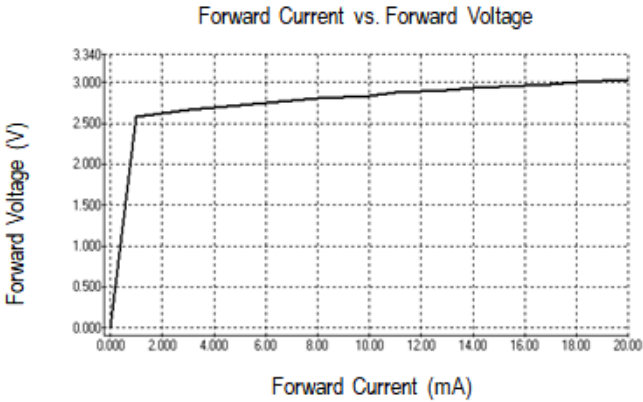
Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
J	100	125	mcd
K	125	160	
L	160	200	
M	200	250	
N	250	320	

Dominant Wavelength λ_D @ I_F=20mA

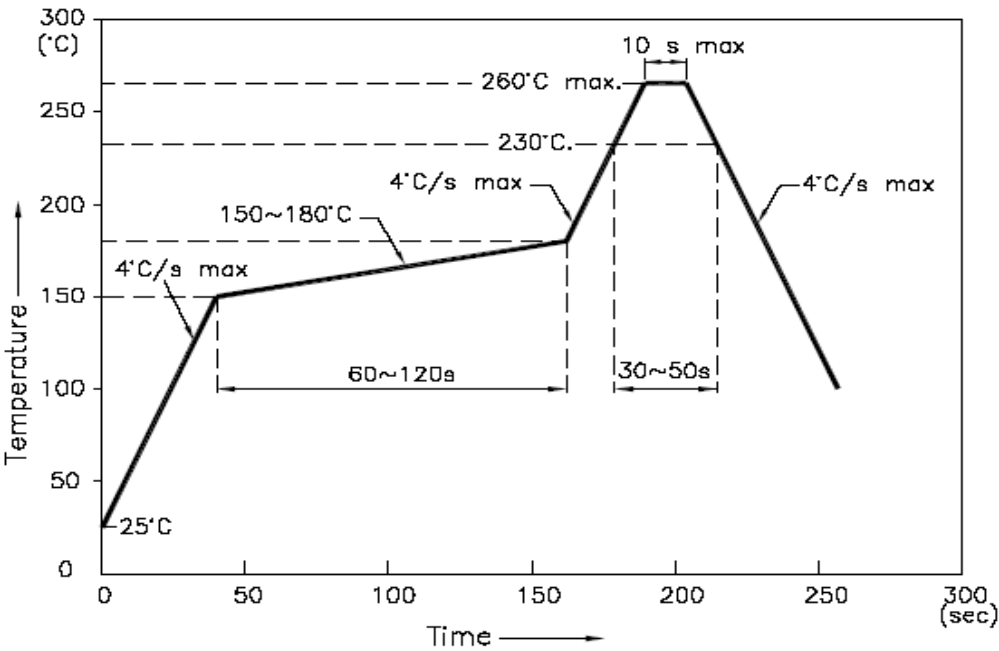
Bin	Min.	Max.	Unit
G	465	467.5	nm
H	467.5	470	
I	470	472.5	
J	472.5	475	

Characteristic Curves

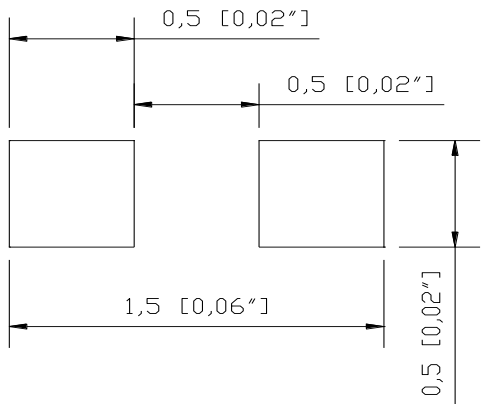


Solder Profile & Footprint

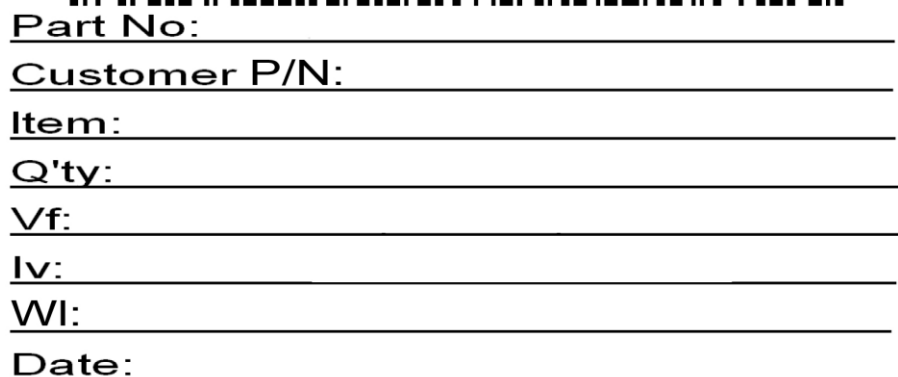
-The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



Recommended Pad Layout



Units: mm



Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP595-IB-2897	Iv=195mcd typ. @ 20mA, λ_D =465nm to 475nm	5,000 units

Product: QBLP595-IB-2897	Date: April 11, 2025	Page 8 of 9
	Version# 1.0	



Revision History

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

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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.