

QT-Brightek Chip LED Series

0402 SMD Chip LED

Part No.: QBLP595-2IB5

2IB: Blue 460 to 470nm 5: 5mA

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Introduction

Feature:

- Water clear lens
- Package in tape and reel
- Compact 0402 package
- InGaN technology
- Viewing angle: 140° typ.
- Height profile: 0.5mm

Application:

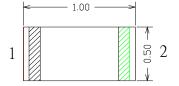
- Status indication
- Back lighting application

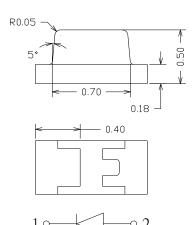
Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:





Units: mm	tolerance =	\pm /-0.1mm
OHIG. HIII /	wicianice —	T/-U.

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I_ (m ^)	V _F	(V)		λ _D (nm))	λ _P (nm)	I _V (m	rcd)
Product	COIOI	I _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Тур.	Min.	Тур.
QBLP595-2IB5	Blue	5	2.9	3.4	460	465	470	460	12.5	28

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)**
InGaN	102	30	100	5	-40 ~ +80	-40 ~ +85	260

Forward Voltage V_F @ I_F=5mA

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

Luminous Intensity I_V @ I_F=5mA

Bin	Min.	Max.	Unit
Α	12.5	16	
В	16	20	
С	20	25	mcd
D	25	32	
E	32	40	

Dominant Wavelength λ_D @ $I_F=5mA$

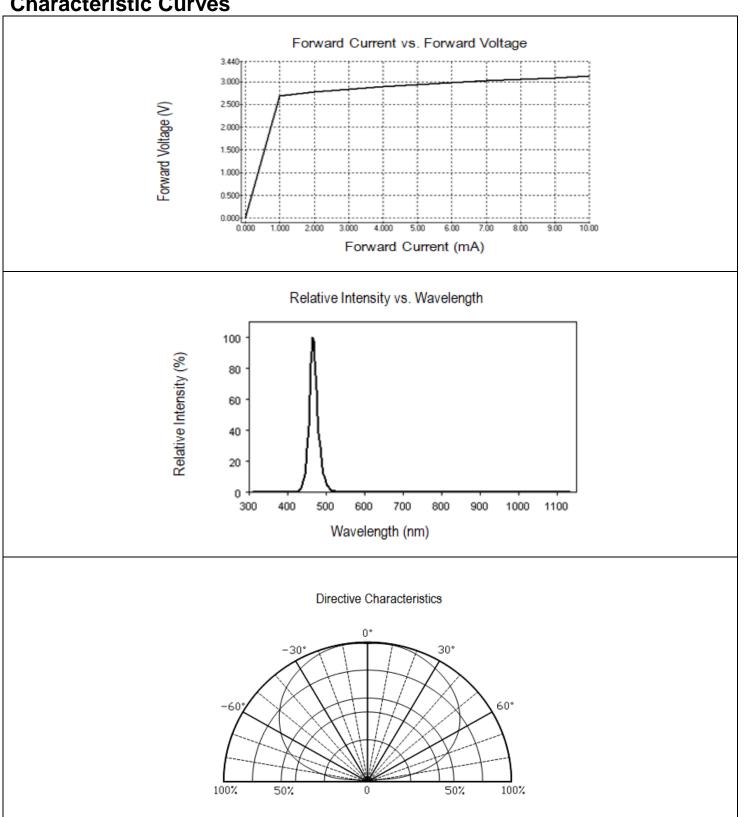
Bin	Min.	Max.	Unit
E	460	462.5	
F	462.5	465	nm
G	465	467.5	nm
Н	467.5	470	

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^{*}Duty 1/10 @ 1KHz **IR Reflow for no more than 10 sec @ 260 °C



Characteristic Curves

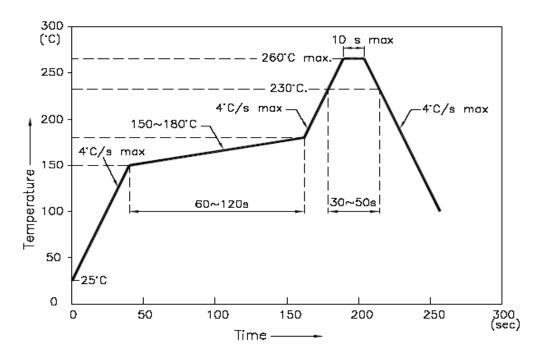


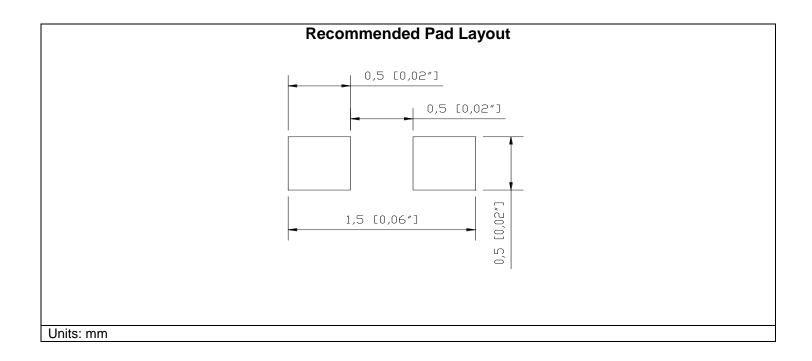
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Solder Profile & Footprint

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



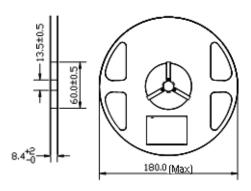


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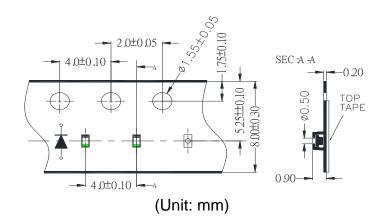
Packing

Reel Dimension:

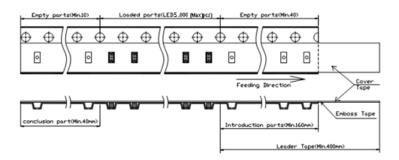


(Unit: mm)

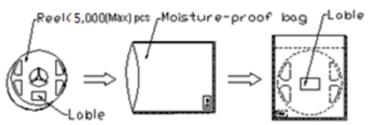
Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



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Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
lv:
WI:
<u>Date:</u> Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP595-2IB5	Iv=28mcd typ. @ 5mA, λ_D =460nm to 470nm	5,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-2IB5	V1.0	08/05/2022
Add WLP typical value, update typical I _V value	V1.1	02/21/2025

Disclaimer

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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.

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