



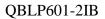
QT-Brightek Chip LED Series

SMD 0603 Blue LED

Part No.: QBLP601-2IB

2IB: Blue 460 to 470nm

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0603 LED

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Introduction

Feature:

- Water clear lens
- Color: Blue
- Package in tape and reel
- Ultra bright 0603 LED package
- InGaN 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:

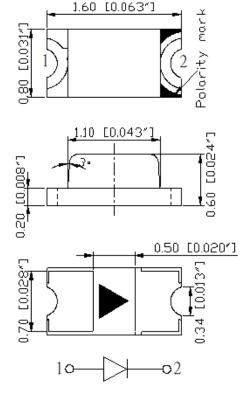
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

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QBLP601-2IB 0603 LED

Electrical / Optical Characteristic (Ta=25 °C)

Droduct	Color	I _F (mA)	V _F	(V)	-	λ _D (nm)		I _V (n	ncd)
Product	COIOI IF (II	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP601-2IB	Blue	20	2.9	3.4	460	465	470	50	95

Absolute Maximum Rating

Matarial	D (mal//)	I (A)	I / A*	V ///	T (90)	T (90)	T (00)**
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	125	5	-40 ~ +80	-40 ~ +85	260

^{*}Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=20mA

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=20mA

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

Dominant Wavelength λ_D @ I_F =20mA

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

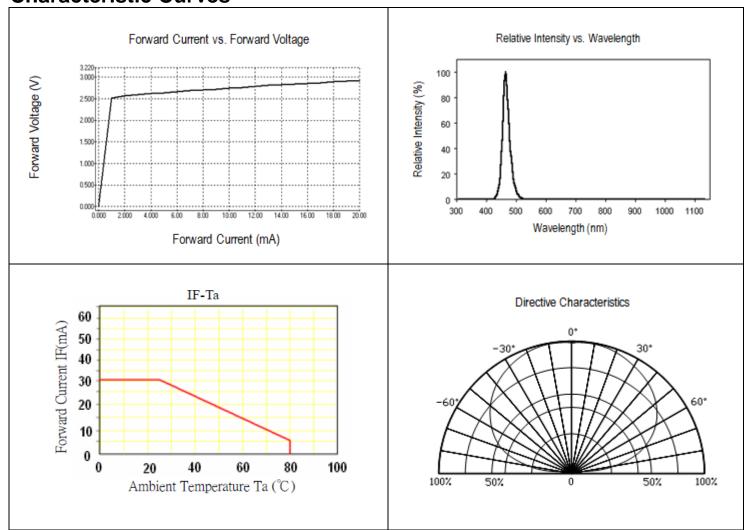
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^{**}IR Reflow for no more than 10 sec @ 260 °C





Characteristic Curves



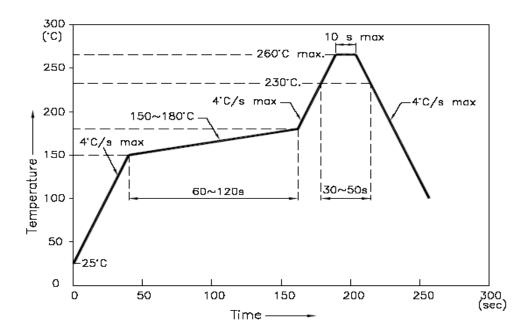
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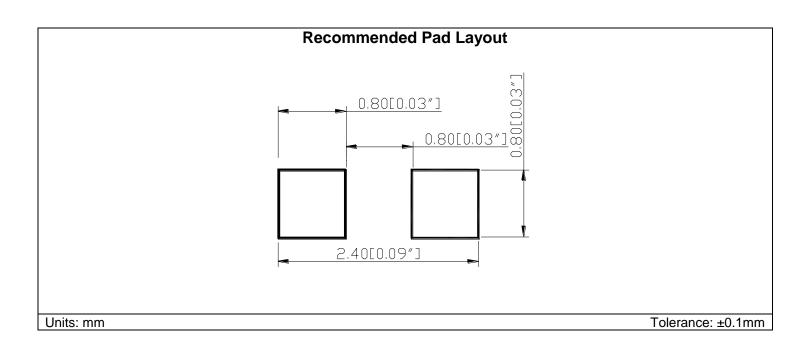




Solder Profile & Footprint

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





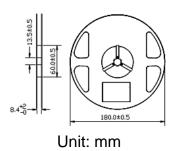
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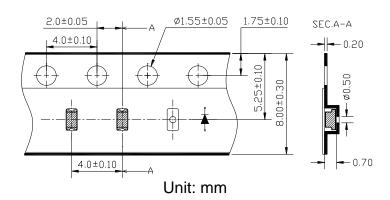
QBLP601-2IB 0603 LED

Packing

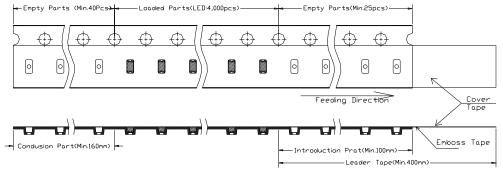
Reel Dimension:



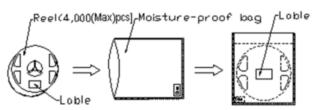
Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



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Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP601-2IB	QBLP601-2IB	Iv=95mcd typ. @ I _F =20mA / Color=460 to 470nm	4,000 units

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QBLP601-2IB 0603 LED

Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-2IB	V1.0	12/22/2021
Fix a typo Electrical / Optical Characteristic	V1.1	04/05/2022

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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