

0603 LED



QT-Brightek Chip LED Series

SMD 0603 Red LED

Part No.: QBLP601-R5

5: 5mA

Product: QBLP601-R5	Date: August 19, 2021	Page 1 of 9
	Version# 1.0	





0603 LED

Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	4
Absolute Maximum Rating	4
Solder Profile & Footprint	6
Packing	7
Ordering Information	8
Revision History	9
Disclaimer	

Product: QBLP601-R5	Date: August 19, 2021	Page 2 of 9
	Version# 1.0	





0603 LED

Introduction

Feature:

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

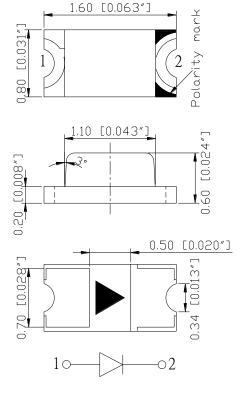
- Status indication
- Back lighting application

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

Product: QBLP601-R5	Date: August 19, 2021	Page 3 of 9
	Version# 1.0	



QBLP601-R5 0603 LED

Electrical / Optical Characteristic (Ta=25 °C)

Droduct	Color	I _F (mA)	V _F	(V)		λ _D (nm)		I _V (n	ncd)
Product Co	Coloi	COIOI IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Typ.
QBLP601-R5	Red	5	1.8	2.3	620	625	630	16	27

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)**
AllnGaP	75	30	125	5	-40 ~ +80	-40 ~ +85	260

^{*}Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=5mA

Bin	Min.	Max.	Unit
Α	1.7	2.0	V
В	2.0	2.3	V

Luminous Intensity I_V @ I_F=5mA

	,			
Bin	Min.	Max.	Unit	
В	16	20		
С	20	25		
D	25	32	mcd	
E	32	40		
F	40	50		

Dominant Wavelength $\lambda_D @ I_F = 5mA$

Bin	Min.	Max.	Unit
t	620	625	nm
u	625	630	nm

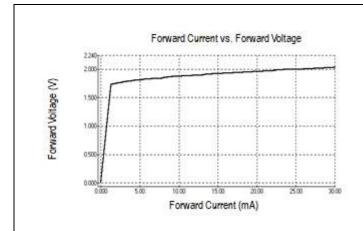
Product: QBLP601-R5	Date: August 19, 2021	Page 4 of 9
	Version# 1.0	

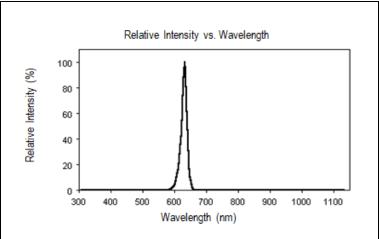
^{**}IR Reflow for no more than 10 sec @ 260 °C

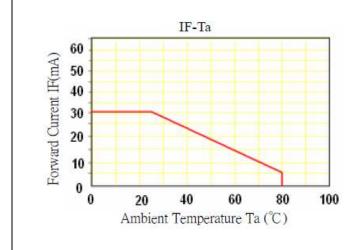


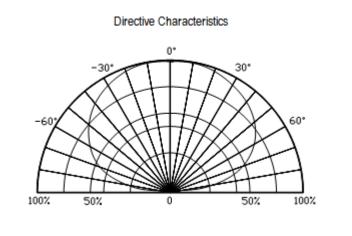


Characteristic Curves









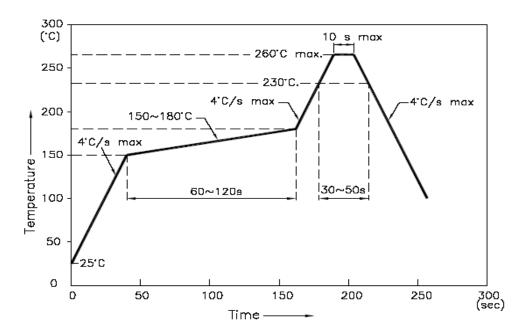
Product: QBLP601-R5	Date: August 19, 2021	Page 5 of 9
	Version# 1.0	

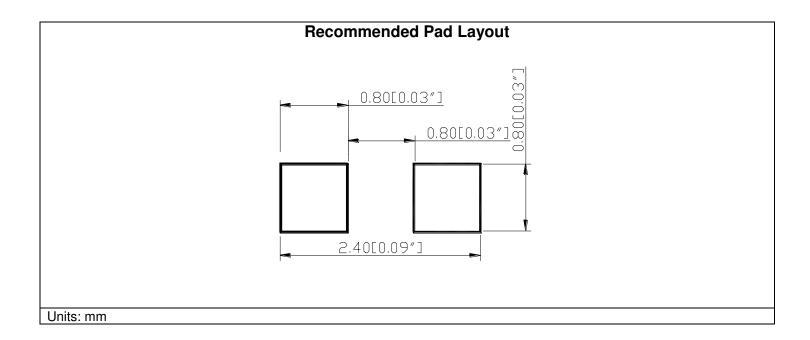




Solder Profile & Footprint

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





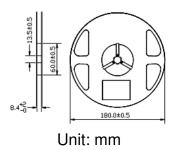
Product: QBLP601-R5	Date: August 19, 2021	Page 6 of 9
	Version# 1.0	



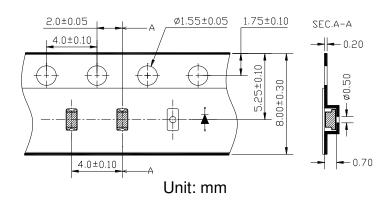


Packing

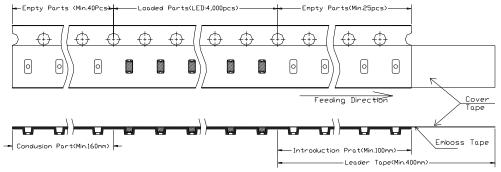
Reel Dimension:



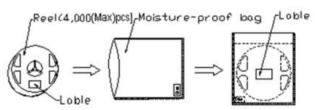
Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



Product: QBLP601-R5	Date: August 19, 2021	Page 7 of 9
	Version# 1.0	



QBLP601-R5 0603 LED

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP601-R5	QBLP601-R5	Iv=27mcd typ. @ I _F =5mA / Color=620 to 630nm	4,000 units

Product: QBLP601-R5	Date: August 19, 2021	Page 8 of 9
	Version# 1.0	



QBLP601-R5 0603 LED

Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-R5	V1.0	08/19/2021

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.

Product: QBLP601-R5	Date: August 19, 2021	Page 9 of 9
	Version# 1.0	