



0603 LED

QT-Brightek Chip LED Series

SMD 0603 Red LED

Part No.: QBLP601-R35

R3: 625 to 639nm (AlInGaP) 5: 5mA

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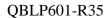


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QBLP601-R35 0603 LED

Introduction

Feature:

- Water clear lens
- Dominant Wavelength: 631nm typ.
- 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:

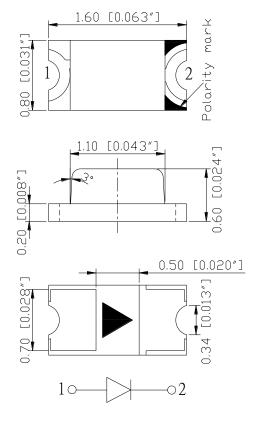
- Status indication
- Back lighting application

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F	(V)	-	λ _D (nm)		I _V (n	ncd)
Product Color	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	c. Min. Typ.	Тур.	
QBLP601-R35	Red	5	1.9	2.3	625	631	639	16	27

Absolute Maximum Rating

Mate	ial	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AllnG	аР	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

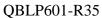
Bin	Min.	Max.	Unit	
В	16	20		
С	20	25		
D	25	32	mcd	
E	32	40		
F	40	50		

Dominant Wavelength λ_D @ $I_F=5mA$

Bin	Min.	Max.	Unit
U	625	630	
V	630	635	nm
W	635	639	

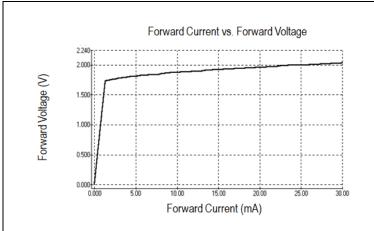
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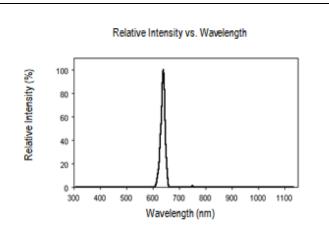
^{**}IR Reflow for no more than 10 sec @ 260 °C

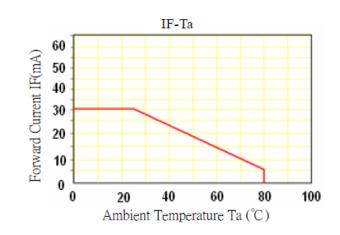


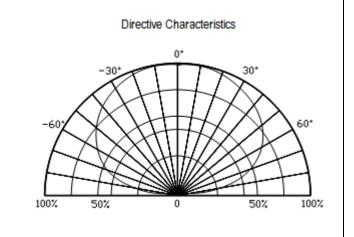


Characteristic Curves

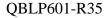








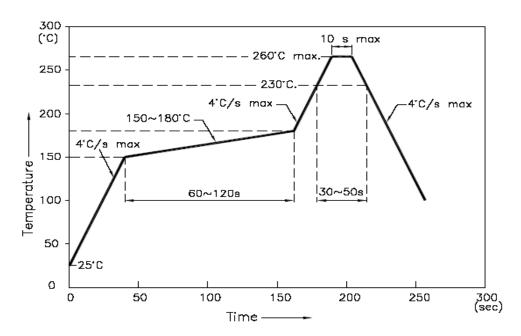
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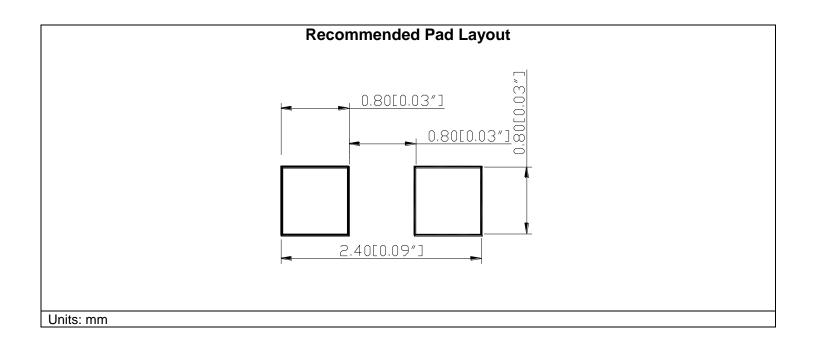




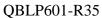
Solder Profile & Footprint

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





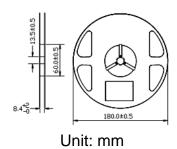
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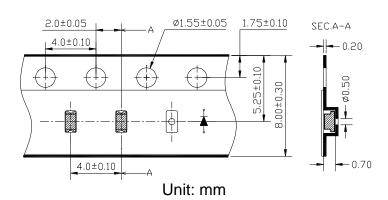
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Packing

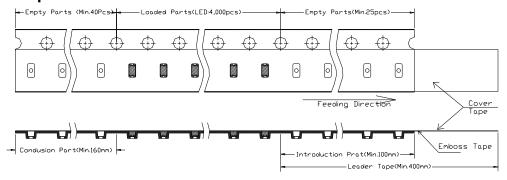
Reel Dimension:



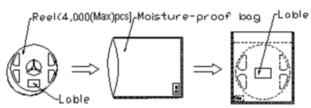
Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



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Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP601-R35	QBLP601-R35	Iv=27mcd typ. @ I _F =5mA / Color=625 to 639nm	4,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-R35	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.

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