



QT-Brightek Chip LED Series

SMD 0805 Red LED

Part No.: QBLP631-R35

R3: 625 to 639nm (AlInGaP)

5: 5mA

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QBLP631-R35

0805 LED

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Introduction

Feature:

- Water clear lens
- Package in tap and reel
- 0805 LED package
- AllnGaP technology
- Viewing angle: 140 deg typ.

Description:

These ultra bright 0805 LEDs have a height profile of 0.8mm. Combination of high brightness output and small footprint, these LEDs are ideal for keypad backlighting and status indication.

Application:

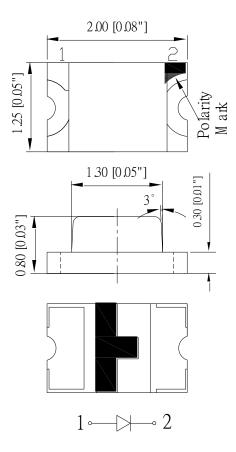
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

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QBLP631-R35 0805 LED

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	$I_{F}(mA)$ $V_{F}(V)$			λ _D (nm)		λ _P (nm)	I _V (n	ncd)	
	Color	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Тур.	I _V (mcd) Min. Typ. 16 30	
QBLP631-R35	Red	5	1.8	2.5	625	631	639	639	16	30

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
	1.7	2.5	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 $\lambda_D @ I_F = 5mA$

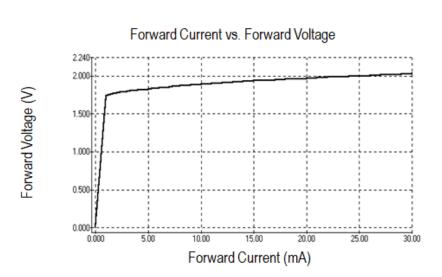
Bin	Min.	Max.	Unit
U	625	630	
V	630	635	nm
W	635	639	

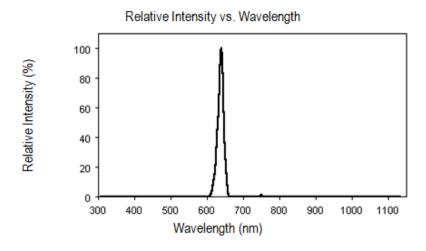
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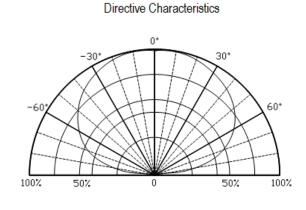
^{**}IR Reflow for no more than 10 sec @ 260 °C



Characteristic Curves





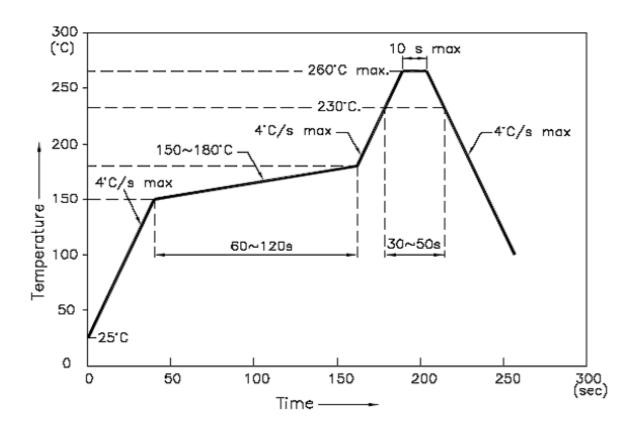


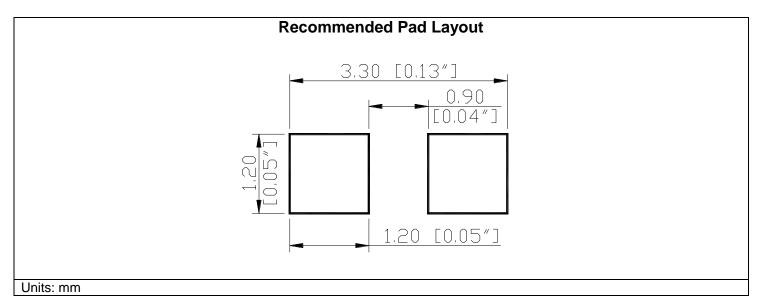
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Solder Profile & Footprint

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



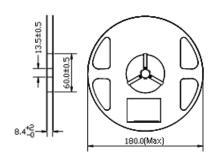


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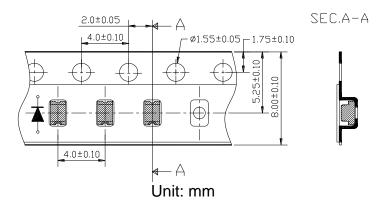
Packing

Reel Dimension:

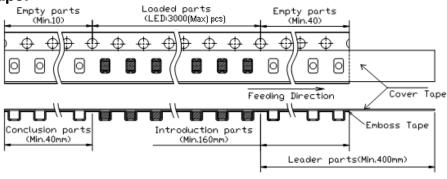


Unit: mm

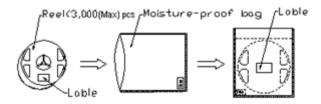
Tape Dimension:



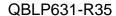
Arrangement of Tape:



Packaging Specification:



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Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
Iv:
WI:
Date: Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP631-R35	Iv=30mcd typ. / λ_D =625nm to 639nm @ 5mA	3000 units

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QBLP631-R35 0805 LED

Revision History

Description:	Revision #	Revision Date
New Release of QBLP631-R35	V1.0	03/27/2024

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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