

QT-Brightek PLCC Series

PLCC6 LED

Part No.: QBLP679-RK (High Bright)

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Introduction

Feature:

- Package in tape and reel
- Ultra bright PLCC6
- High Bright
- 120 degree viewing angle

Description:

This PLCC6 LEDs have a height profile of 1.60mm. Combination of high brightness output and robust package, this LED is ideal for architecture lighting, status indication, and general application.

Application:

- Status indication
- Industrial equipment backlighting
- Architecture lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.2mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	L (m A)*	V _F	(V)		λ _D (nm)		l _v (m	ncd)
FIOUUCI	COIOI	I _F (mA)*	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP679-RK (High Bright)	Red	60	2.0	2.5	620	625	635	1000	1800

*Total forward current for three dies

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	Т _{оР} (°С)	Т _{sт} (°С)	T _{SOL} (°C)**	ESD (V)
AllnGaP	216	90	125	5	-40 ~ +80	-40 ~ +85	260	HBM 8000

*Duty 1/8 @ 1KHz

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

Forward Voltage V_F @ I_F=60mA

Bin	Min.	Max.	Unit
	1.7	2.5	V

Dominant Wavelength $\lambda_D @ I_F = 60 \text{mA}$

Bin	Min.	Max.	Unit
С	620	625	
D	625	630	nm
E	630	635	

Luminous Intensity I_V for Red @ I_F=60mA

Bin	Min.	Max.	Unit
15	1000	1300	
16	1300	1700	mcd
17	1700	2200	

Note:

Tolerance of measurement of forward voltage: ±0.05V

Tolerance of measurement of luminous intensity: ±15%

Tolerance of measurement of dominant wavelength: ±1nm

All parameters are measured by QT-Brigthek instrument

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Characteristic Curves



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Solder Profile & Footprint

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-Recommended tin solder specifications: melting temperature in the range of 178~192 ^OC -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:



Unit: mm

Arrangement of Tape:



Packaging Specifications:



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Labeling



<u>Customer P/N:</u>

<u>ltem:</u>

Q'ty:

Vf:

Iv:

WI:

Date:

Made in China

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel	
QBLP679-RK (High	QBLP679-RK (High	Iv=1000mcd min. @ 60mA/	1.000 unito	
Bright)	Bright)	Color=620nm to 635nm	1,000 units	

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP679-RK (High Bright)	V1.0	02/25/2013
New format/ Amend the typical Brightness	V1.1	06/25/2013
Add ESD HBM information	V1.2	08/12/2013
Update dimension drawing	V2.0	03/19/2014

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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