

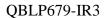
QT-Brightek PLCC Series

5050 PLCC6 IR LED

Part No.: QBLP679-IR3

IR3: 850nm

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| | Version# 1.2 | |







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Introduction

Feature:

- Water clear lens
- Package in tape and reel
- AlGaAs technology
- Viewing Angle = 120 deg

Description:

These ultra bright reflector type 5050 type PLCC6 LEDs have a height profile of 1.60mm. Combination of high brightness output and robust package, these LEDs are ideal for architecture lighting, status indication, and industrial equipment lighting applications.

Application:

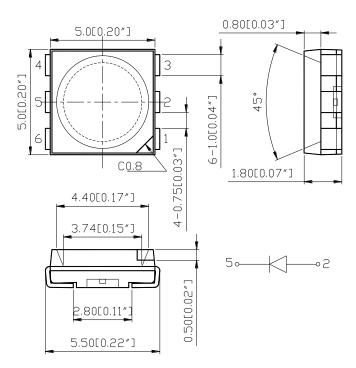
- Infrared Sensor
- Optoelectronic Switch
- Smoke detector
- Drive sensor

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.2mm

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Electrical / Optical Characteristic (Ta=25 °C)

| Product | Color | Color I (mA) | V _F (V) | | | λ _P (nm) | | I | e (mW/s | r) |
|-------------|------------------|------------------------------|--------------------|------|------|---------------------|------|------|---------|------|
| Product | Product Color IF | ct Color I _F (mA) | Тур. | Max. | Min. | Тур. | Max. | Min. | Тур. | Max. |
| QBLP679-IR3 | Infrared | 20 | 1.4 | 1.8 | 835 | 850 | 860 | 0.6 | 1.4 | 2.1 |

Absolute Maximum Rating

| Material | P _d (mW) | I _F (mA) | I _{FP} (A)* | V _R (V) | T _{OP} (°C) | T _{ST} (°C) | T _{SOL} (°C)** |
|----------|---------------------|---------------------|----------------------|--------------------|----------------------|----------------------|-------------------------|
| AlGaAs | 90 | 50 | 1 | 5 | -40 ~ +80 | -40 ~ +85 | 260 |

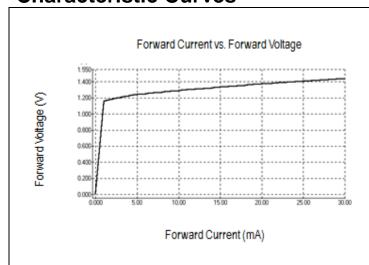
^{*}Duty cycle=1%, Pulse width 100us

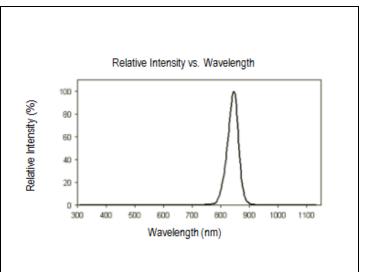
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^{**}IR Reflow for no more than 10 sec @ 260 °C

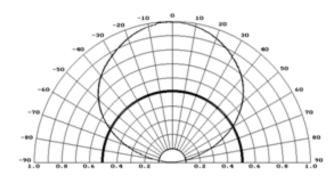


Characteristic Curves





Directive Characteristics

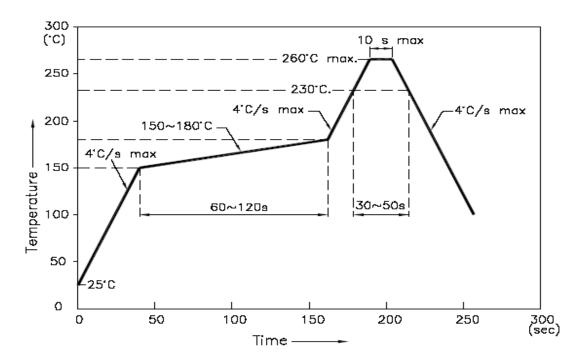


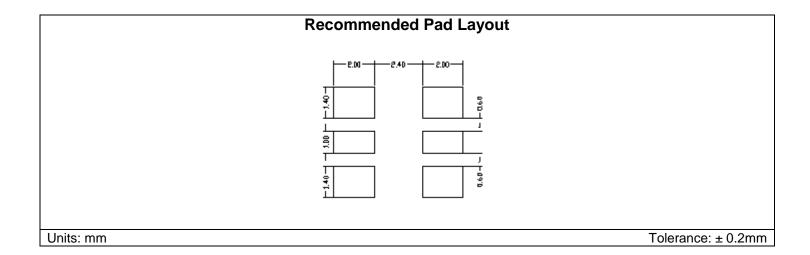
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Solder Profile & Footprint

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



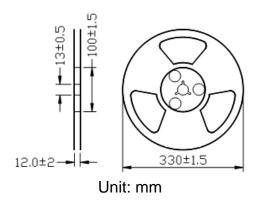


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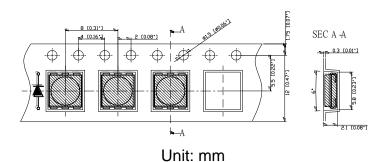


Packing

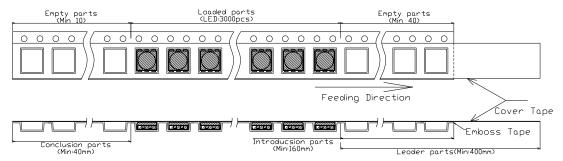
Reel Dimension:



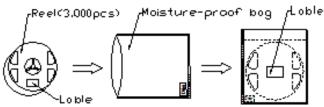
Tape Dimension:



Arrangement of Tape:



Packaging Specification:



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Labeling

| № QT-Brigh | tek 🙆 |
|-------------------|-------|
| Part No: | |
| Customer P/N: | |
| ltem: | |
| Q'ty: | |
| Vf: | |
| lv: | |
| WI: | |
| Date: Made in C | hina |

Ordering Information

| Part # | Orderable Part # | Spec Range | Quantity per reel |
|-------------|------------------|--|-------------------|
| QBLP679-IR3 | QBLP679-IR3 | le=1.4mW/sr typ. @ I_F =20mA / $λ_P$ =850nm typ. | 3,000 units |

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Revision History

| Description: | Revision # | Revision Date |
|---|------------|---------------|
| New Release of QBLP679-IR3 | V1.0 | 05/04/2015 |
| Pin polarity correction | V1.1 | 08/16/2017 |
| Update wavelength Min. value to 835nm / update logo | V1.2 | 06/11/2021 |
| | | |
| | | |

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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