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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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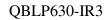




QT-Brightek Chip LED Series 0805 IR LED

Part No.: QBLP630-IR3

| Product: QBLP630-IR3 | Date: May 04, 2015 | Page 1 of 9 |
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| | Version# 1.1 | |





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Introduction

Feature:

- Water clear lens
- Package in tape and reel
- 0805 Package
- AlGaAs technology
- Viewing Angle = 140 deg

Description:

This 0805 IR LED has a height profile of 1.1mm. With a small footprint, this IR LED is ideal for smaller equipment and miniature application.

Application:

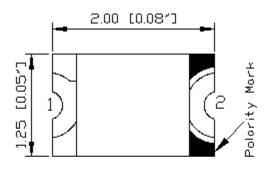
- Infrared Sensor
- Optoelectronic Switch
- Smoke detector
- Drive sensor

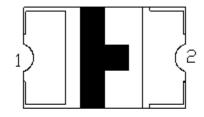
Certification & Compliance:

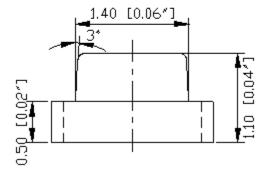
- TS16949
- ISO9001
- RoHS Compliant

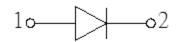


Dimension:









Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

| Product | Color | Color I (mA) | | V _F (V) | | λ _P (nm) | | le | e (mW/s | r) |
|-------------|-----------------|---------------------|------|--------------------|------|---------------------|------|------|---------|------|
| | Color IF (IIIA) | I _F (mA) | Тур. | Max. | Min. | Тур. | Max. | Min. | Тур. | Max. |
| QBLP630-IR3 | Infrared | 20 | 1.3 | 1.8 | - | 850 | - | 0.1 | 0.6 | 1.6 |

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 |

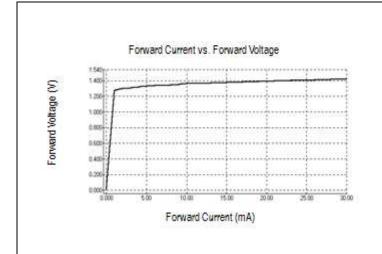
^{*}Duty cycle=1%, Pulse width 100us

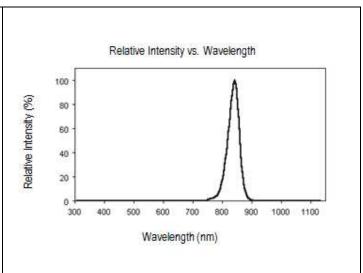
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^{**}IR Reflow for no more than 10 sec @ 260 °C

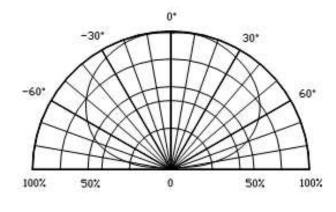


Characteristic Curves





Directive Characteristics

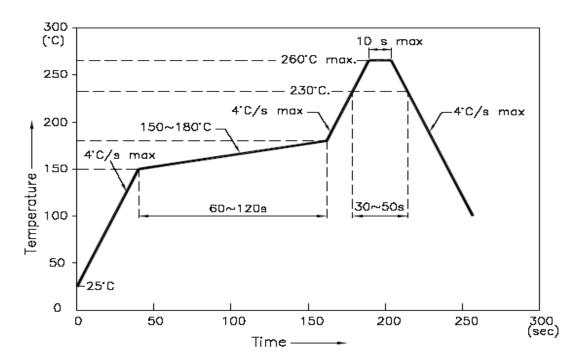


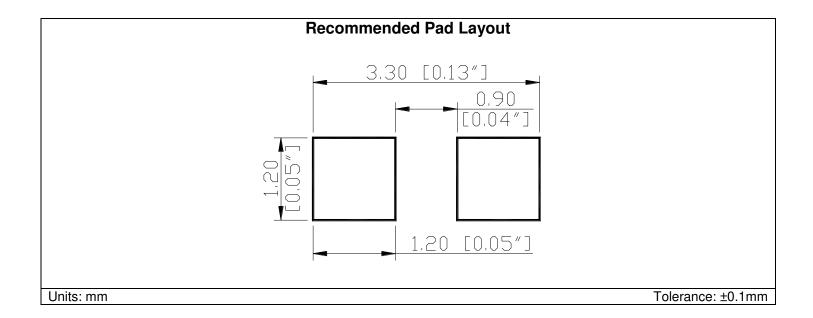
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Solder Profile & Footprint

- -Recommended tin solder specifications: melting temperature in the range of 178~192 °C
- -The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



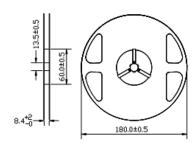


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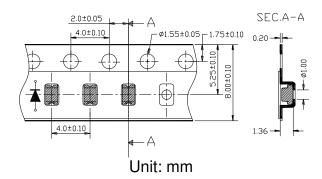
Packing

Reel Dimension:

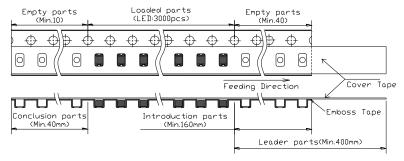


Unit: mm

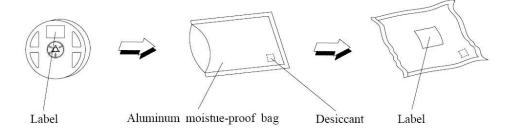
Tape Dimension:



Arrangement of Tape:



Packaging Specification:



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Labeling

| Part No: | | | | | | |
|---------------------|--|--|--|--|--|--|
| Customer P/N: | | | | | | |
| ltem: | | | | | | |
| Q'ty: | | | | | | |
| Vf: | | | | | | |
| <u>Iv:</u> | | | | | | |
| WI: | | | | | | |
| Date: Made in China | | | | | | |

Ordering Information

| Part # | Orderable Part # | Spec Range | Quantity per reel |
|-------------|------------------|--|-------------------|
| QBLP630-IR3 | QBLP630-IR3 | le=0.6mW/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 QBLP630-IR3 | V1.0 | 02/09/2015 |
| Update le spec | V1.1 | 05/04/2015 |
| | | |
| | | |
| | | |

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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