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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 1206 IR LED

Part No.: QBLP650-IR3

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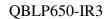




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Introduction

Feature:

- Water clear lens
- Package in tape and reel
- 1206 Package
- AlGaAs technology
- Viewing Angle = 140 deg

Description:

This top mount bright 1206 LEDs have a height profile of 1.1mm, which is ideal in any kind of back lighting application. Also, it is a light weight model that is good for miniature products.

Application:

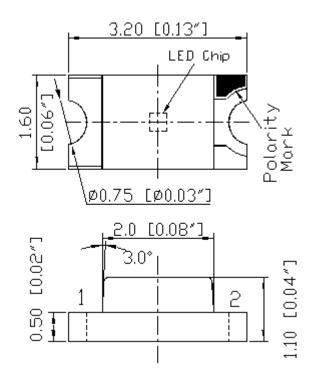
- Infrared Sensor
- Optoelectronic Switch
- Smoke detector
- Drive sensor

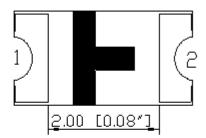
Certification & Compliance:

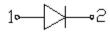
- TS16949
- ISO9001
- RoHS Compliant



Dimension:







Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	L (mA)	V _F (V)			λ _P (nm)		le	e (mW/s	r)
Product	duct Color I _F (m/	I _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.
QBLP650-IR3	Infrared	20	1.4	1.8	-	850	-	0.3	0.8	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

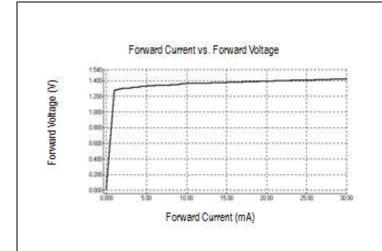
^{*}Duty cycle=1%, Pulse width 100us

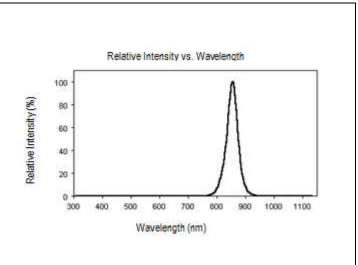
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^{**}IR Reflow for no more than 10 sec @ 260 °C

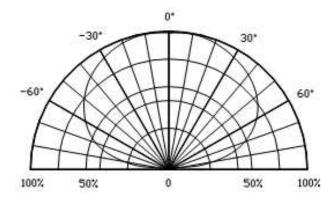


Characteristic Curves





Directive Characteristics

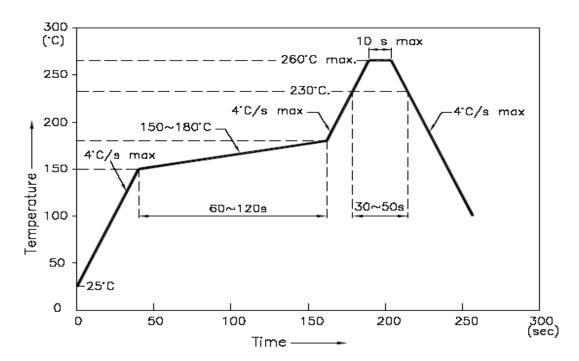


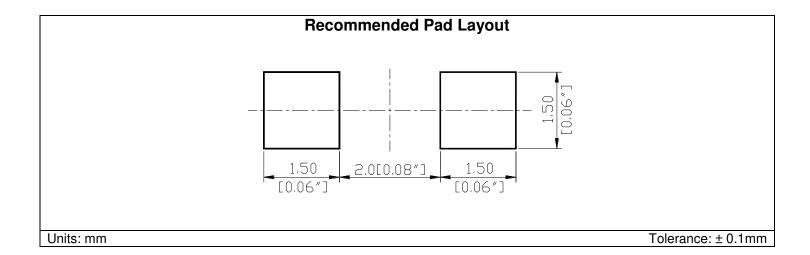
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Solder Profile & Footprint

- -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):



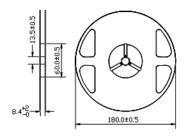


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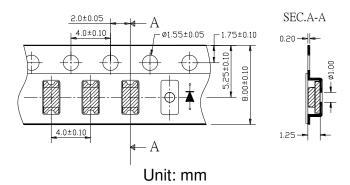
Packing

Reel Dimension:

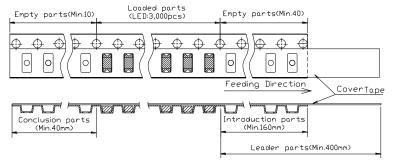


Unit: mm

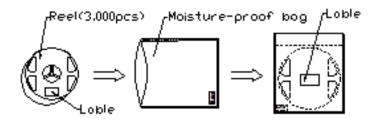
Tape Dimension:



Arrangement of Tape:



Packaging Specification:



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Labeling

Part No:
Customer P/N:
<u>Item:</u>
Q'ty:
<u>∨f:</u>
<u>Iv:</u>
WI:
Date:

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP650-IR3	QBLP650-IR3	$Ie=0.8mW/sr$ typ. / $\lambda_P=850nm$ typ. @ $I_F=20mA$	3,000 units

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1206 LED

Revision History

Description:	Revision #	Revision Date
New Release of QBLP650-IR3	V1.0	02/05/2015
Update spec (add min. le)	V1.1	05/11/2015

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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