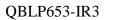


QT-Brightek Chip LED Series 1208 IR LED with Dome Lens

Part No.: QBLP653-IR3

Product: QBLP653-IR3	Date: August 08, 2017	Page 1 of 9
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1208 LED with Lens



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Introduction

Feature:

- Water clear lens
- Tape and reel packaging
- Bright LED package
- AlGaAs technology for IR
- Viewing Angle = 15 deg

Description:

This reversed mount light weight bright 1208 LEDs have a height profile of 2.5mm. With narrow viewing angle, LED produces high intensity output. This device is spectrally matched with phototransistor, photodiode and infrared receiver module.

Application:

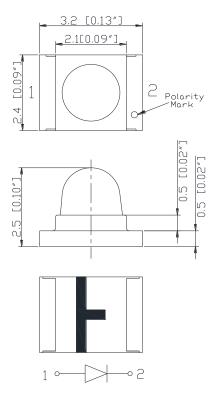
- Free air transmission system
- Optoelectronic switch
- Infrared applied system
- Smoke Detector

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.15mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)		V _F (V)			λ _P (nm)	le	(mW/s	r)
Product	Coloi	IF (IIIA)	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.
QBLP653-IR3	Infrared	20	1.0	1.5	1.8	840	850	860	1.6	3.0	6.1

Absolute Maximum Rating

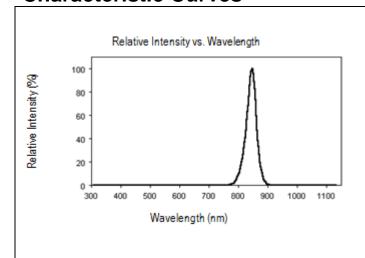
_								
	Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
	AlGaAs	90	50	1	5	-40 to +80	-40 to +85	260

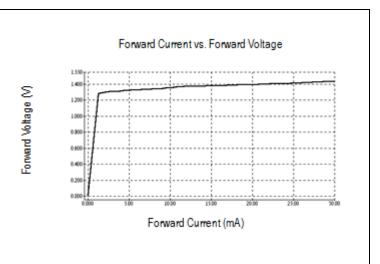
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^{*}Pulse width 100µs, duty cycle=1%
**IR Reflow for no more than 10 sec @ 260 °C

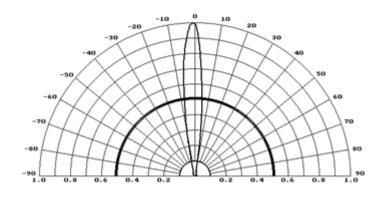


Characteristic Curves





Directive Characteristics

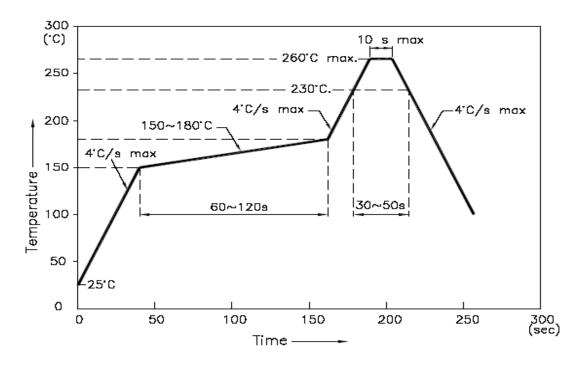


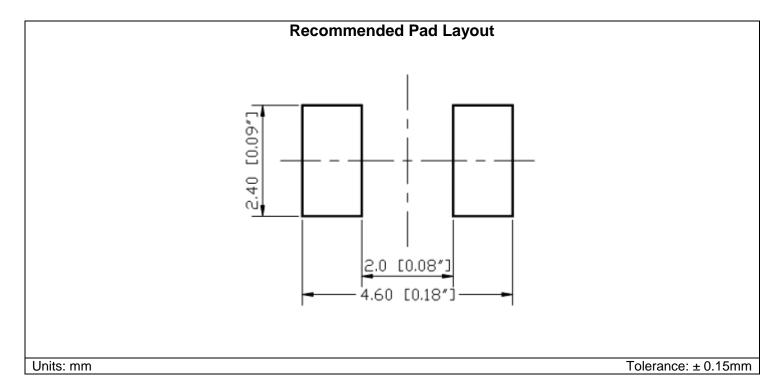
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Solder Profile & Footprint

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



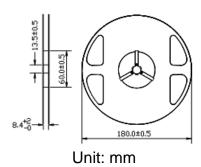


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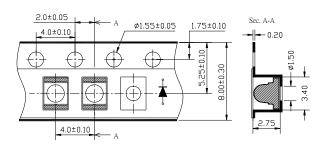


Packing

Reel Dimensions:

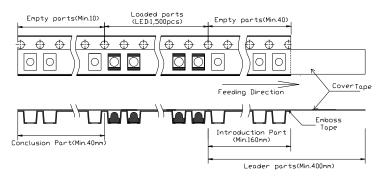


Tape Dimensions:

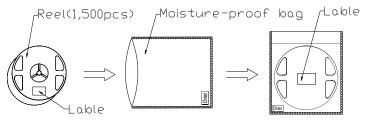


Unit: mm

Arrangement of Tape:



Packing specifications



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Labeling

	P	QT-Brightek	· ·
 Par	t No:		
Cus	stomer	- P/N:	
<u>lten</u>	n:		
Q'ty	y :		
∨f :			
lv:			
WI:			
<u>Dat</u>	te:	Made in China	
		waue in China	

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP653-IR3	QBLP653-IR3	Ie=3.0mW/sr typ. @ 20mA, $λ_P$ =850nm typ.	1,500 pcs

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP653-IR3	V1.0	05/11/2015
Update drawing dimension	V1.1	08/08/2017

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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