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[QBLP630-IR1](#)

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QBLP630-IR1

0805 LED

QT-Brightek Chip LED Series

0805 IR LED

Part No.: QBLP630-IR1

Product: QBLP630-IR1	Date: May 04, 2015	Page 1 of 9
	Version# 1.0	



QBLP630-IR1

0805 LED

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QBLP630-IR1

0805 LED

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:

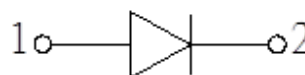
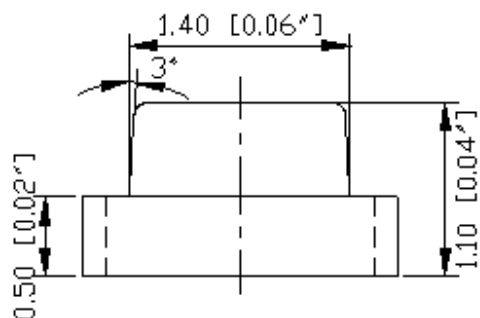
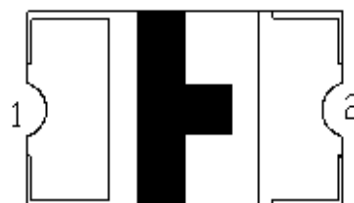
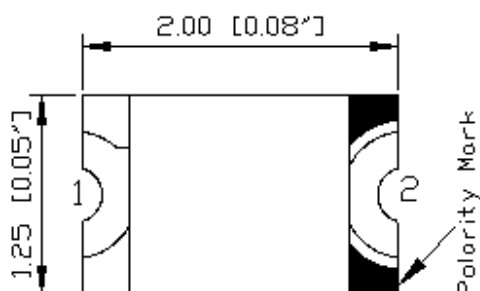
- Infrared Sensor
- Optoelectronic Switch
- Smoke detector
- Drive sensor

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _P (nm)			I _e (mW/sr)		
			Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
QBLP630-IR1	Infrared	20	1.2	1.6	930	940	950	0.2	0.6	1.1

Absolute Maximum Rating

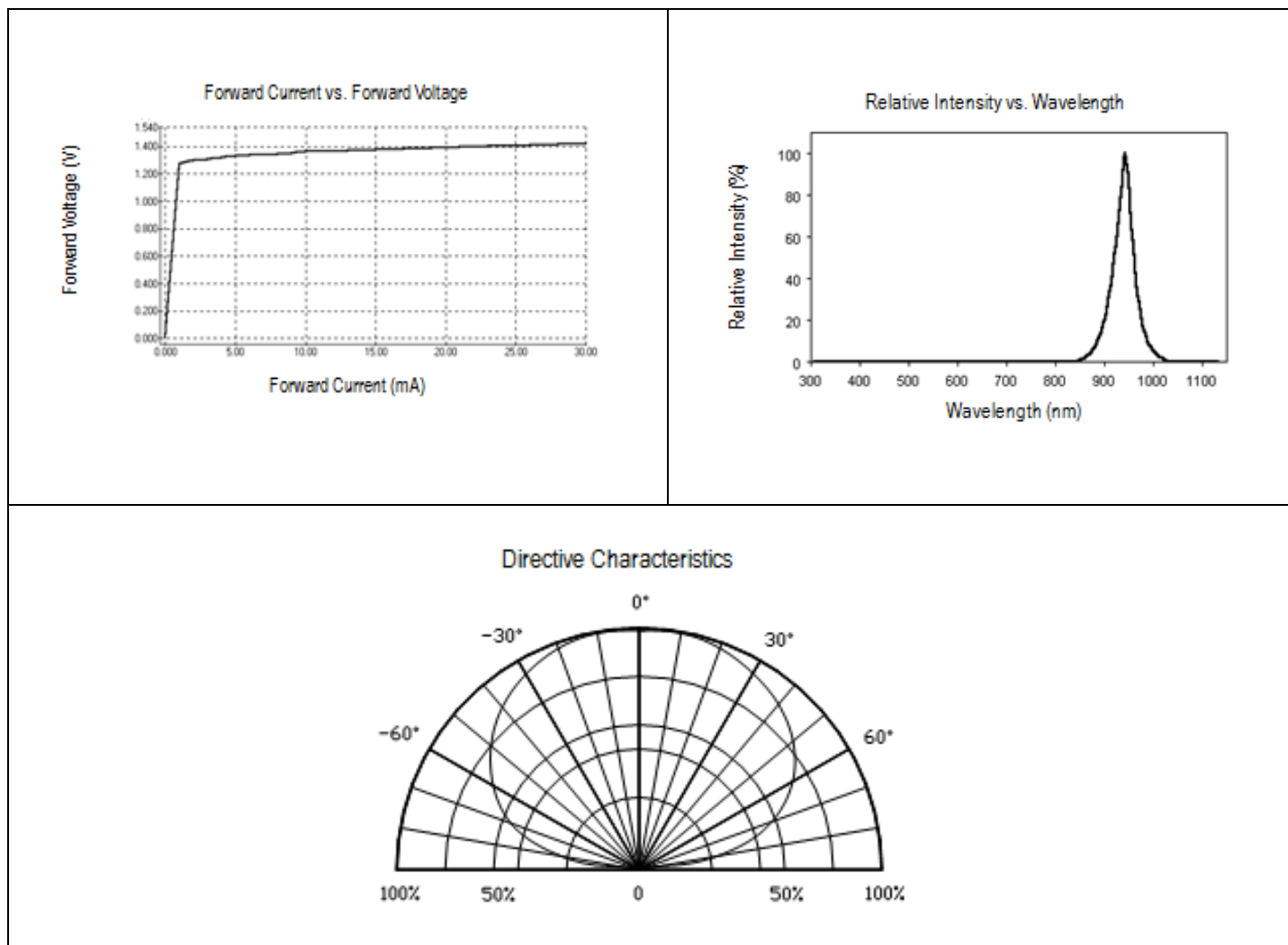
Material	P _d (mW)	I _F (mA)	I _{FP} (A)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AlGaAs	80	50	1	5	-40 ~ +80	-40 ~ +85	260

*Duty cycle=1%, Pulse width 100us

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

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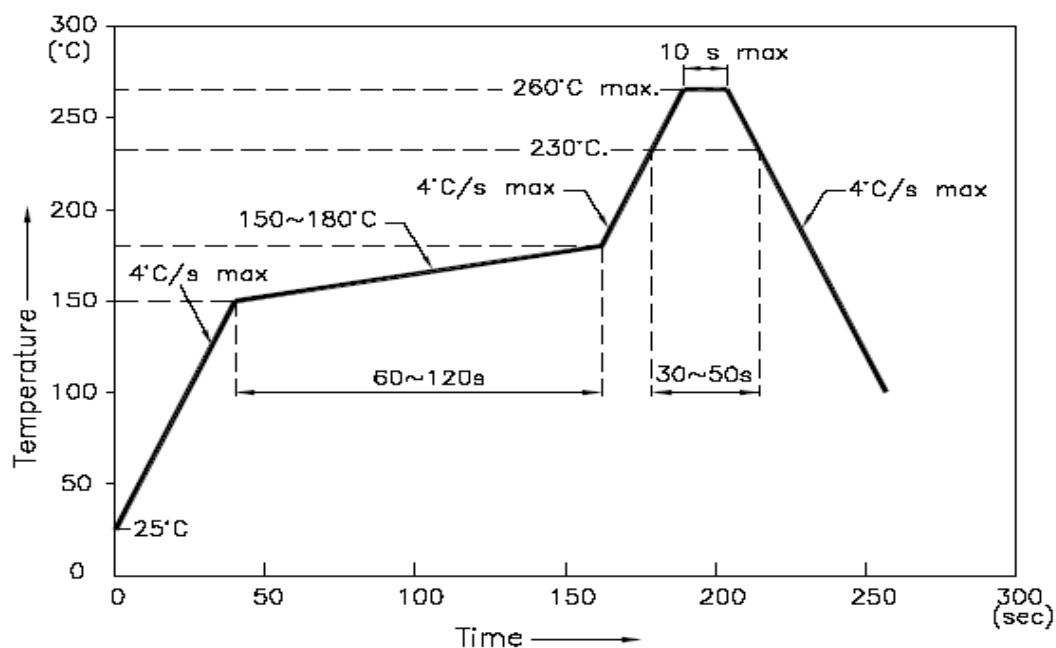
Characteristic Curves



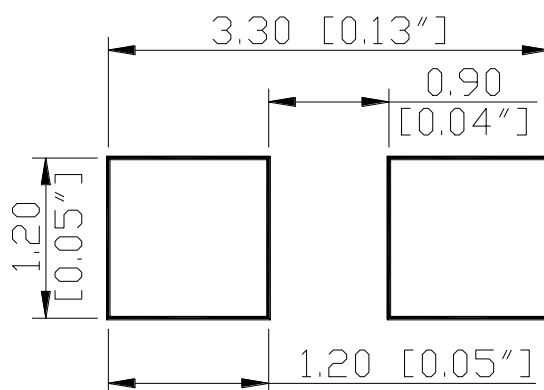
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Solder Profile & Footprint

- 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):



Recommended Pad Layout



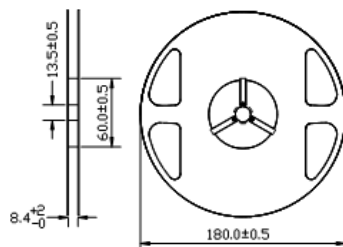
Units: mm

Tolerance: $\pm 0.1\text{mm}$

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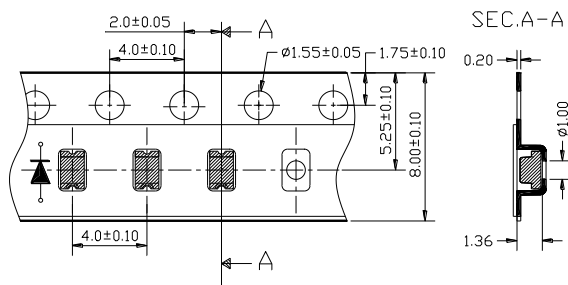
Packing

Reel Dimension:



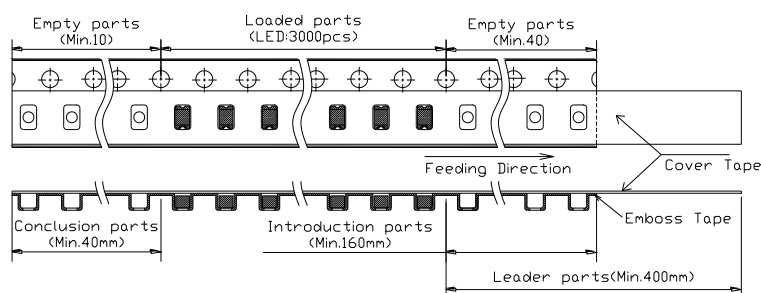
Unit: mm

Tape Dimension:

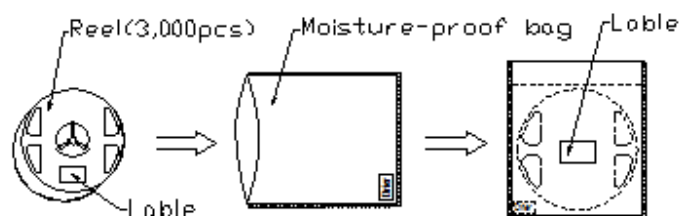


Unit: mm

Arrangement of Tape:



Packaging Specification:



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Labeling

 QT-Brightek 	
	
Part No: _____	
Customer P/N: _____	
Item: _____	
Q'ty: _____	
Vf: _____	
Iv: _____	
Wl: _____	
Date: _____	
Made in China	

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP630-IR1	QBLP630-IR1	I _e =0.6mW/sr typ. @ I _F =20mA / λ _P =940nm typ.	3,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP630-IR1	V1.0	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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