![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!

Contact us

QT-Brightek Chip LED Series

0805 IR LED

Part No.: QBLP630-IR1

Table of Contents:

Introduction

Feature:	**Application:**
• Water clear lens	• Infrared Sensor
• Package in tape and reel	• Optoelectronic Switch
• 0805 Package	• Smoke detector
• AlGaAs technology	• Drive sensor
• 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.
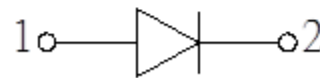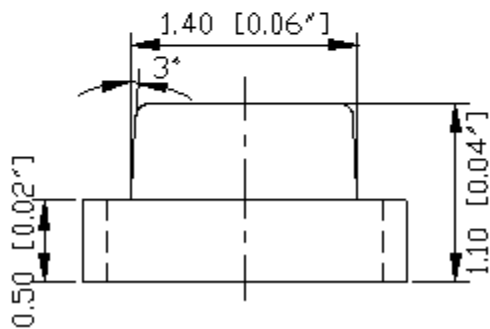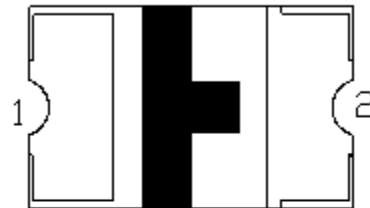
Certification & Compliance:
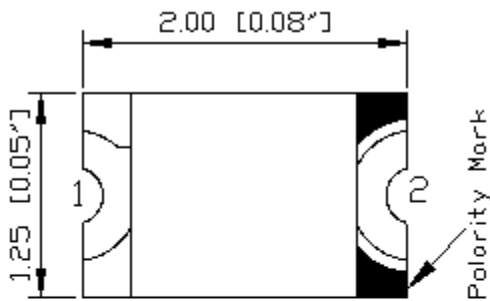
• TS16949
• ISO9001
• RoHS Compliant

Dimension:

Units: mm / tolerance = +/-0.1mm

Electrical / Optical Characteristic (Ta=25 ^{o}C)

Product	Color	I$_F$ (mA)	V$_F$ (V)		λ$_P$ (nm)			Ie (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$_{OP}$ (^{o}C)	T$_{ST}$ (^{o}C)	T$_{SOL}$ (^{o}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 ^{o}C

Characteristic Curves

Forward Current vs. Forward Voltage

Relative Intensity vs. Wavelength

Directive Characteristics
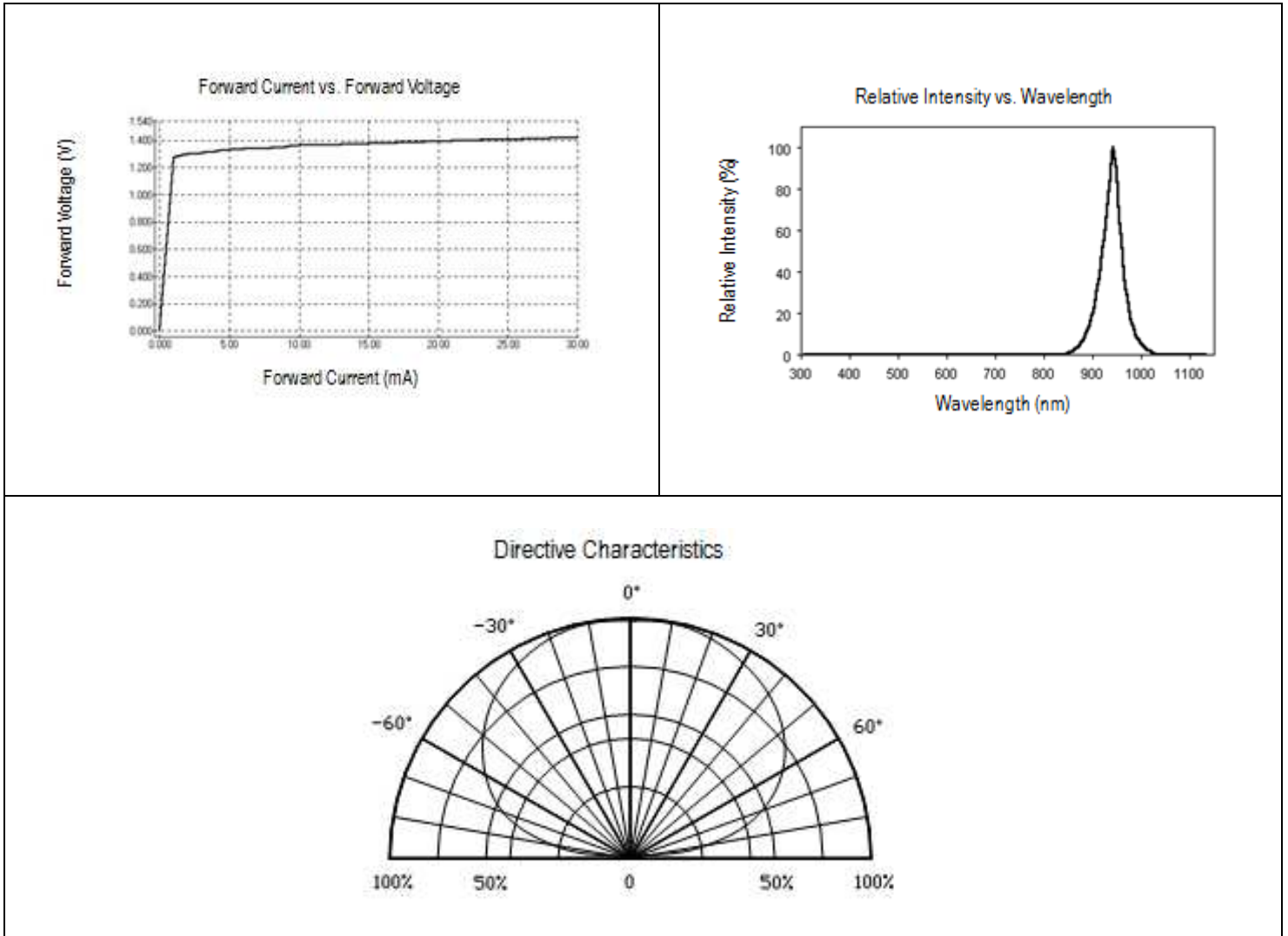
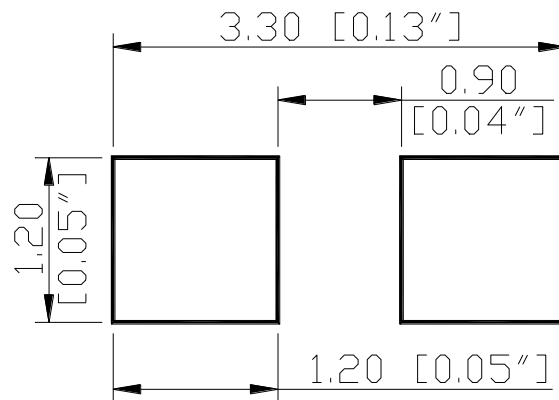
Solder Profile & Footprint

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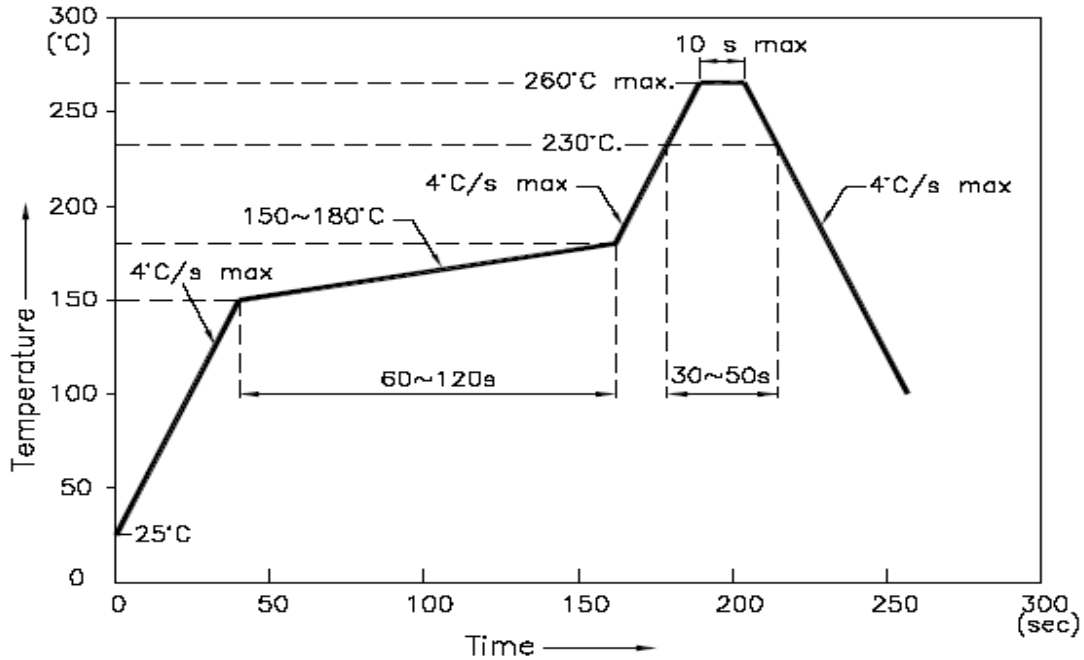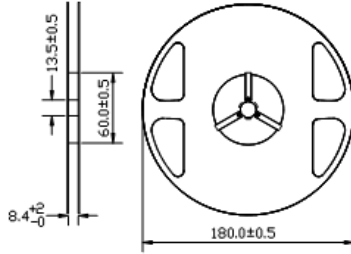

Recommended Pad Layout

Units: mm	Tolerance: ± 0.1mm

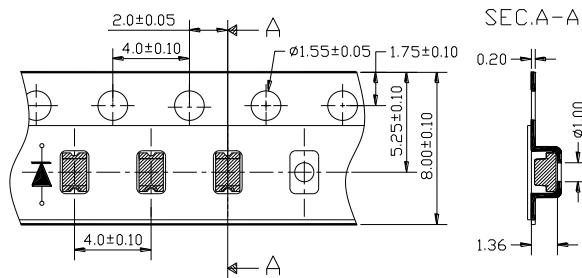---

Packing

Reel Dimension:

Unit: mm

Tape Dimension:

Unit: mm

Arrangement of Tape:
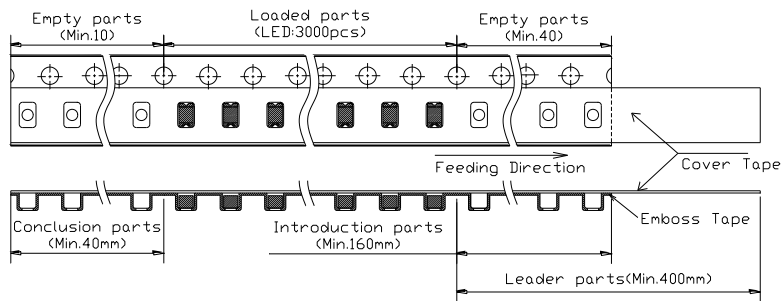
Packaging Specification:
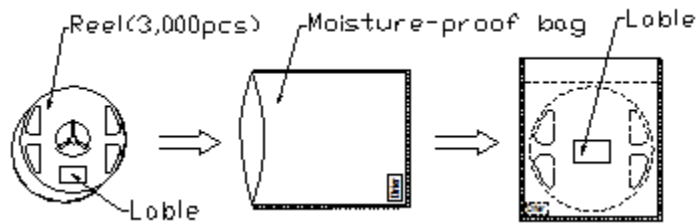
Labeling

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP630-IR1	QBLP630-IR1	Ie=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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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.