

QT-Brightek Chip LED Series

SMD Side View 0802 LED

Part No.: QBLP612-YG

Product: QBLP612-YG	Date: September 16, 2014	Page 1 of 9
	Version# 1.0	

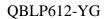




Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	4
Absolute Maximum Rating	4
Characteristic Curves	
Solder Profile & Footprint	6
Packing	7
Labeling	
Ordering Information	8
Revision History	
Disclaimer	

Product: QBLP612-YG	Date: September 16, 2014	Page 2 of 9
	Version# 1.0	



Introduction

Feature:

- Water clear lens
- Package in tape and reel
- Side View Ultra bright 0802 LED package
- GaP technology for YG

Description:

These ultra bright 0802 LEDs have a height profile of 0.6mm. With higher packing density and smaller footprint, these LEDs are ideal for smaller equipment and miniature application.

Application:

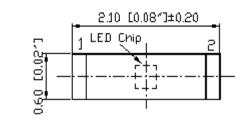
- Status indication
- Back lighting application
- General Use

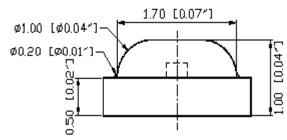
Certification & Compliance:

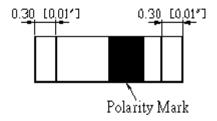
- TS16949
- ISO9001
- RoHS Compliant



Dimension:







Units: mm / tolerance = +/-0.1mm

Product: QBLP612-YG	Date: September 16, 2014	Page 3 of 9
	Version# 1.0	



Electrical / Optical Characteristic (Ta=25 °C)

Ī	Product	Color	I _F (mA)	$V_F(V)$ $\lambda_D(nm)$			I _V (n	ncd)		
	Fioduci	Coloi	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
ĺ	QBLP612-YG	Yellow Green	20	2.0	2.5	565	570	576	5.0	15

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)**
GaP	75	30	125	5	-40 ~ +80	-40 ~ +85	260

^{*}Duty 1/8 @ 1kHz

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
	1.7	2.5	V

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
8	5.0	8.0	
9	8.0	12.5	
А	12.5	16	mcd
В	16	20	
С	20	25	

Dominant Wavelength λ_D @ I_F =20mA

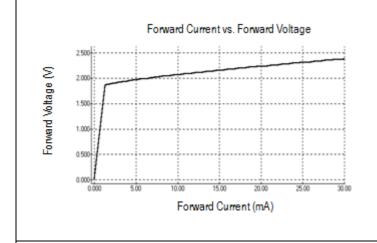
Bin	Min.	Max.	Unit
h	565	568	
i	568	572	nm
j	572	576	

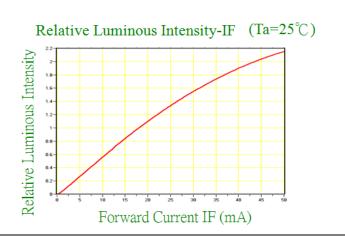
Product: QBLP612-YG	Date: September 16, 2014	Page 4 of 9
	Version# 1.0	

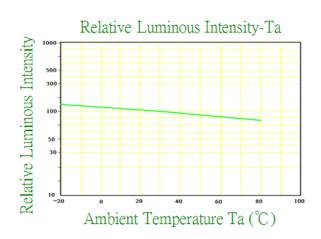
^{**}IR Reflow for no more than 10 sec @ 260 °C

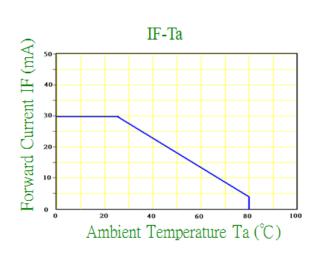


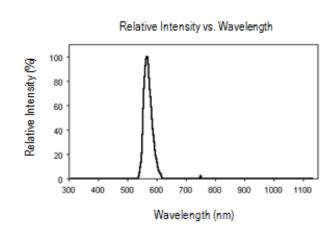
Characteristic Curves

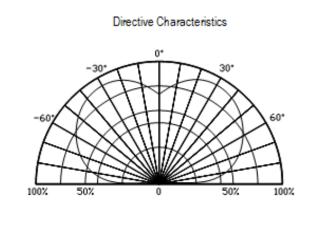










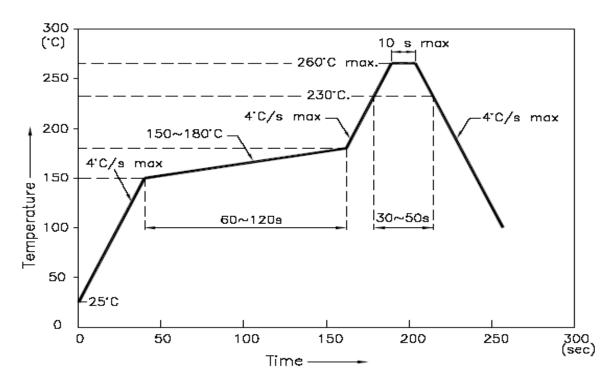


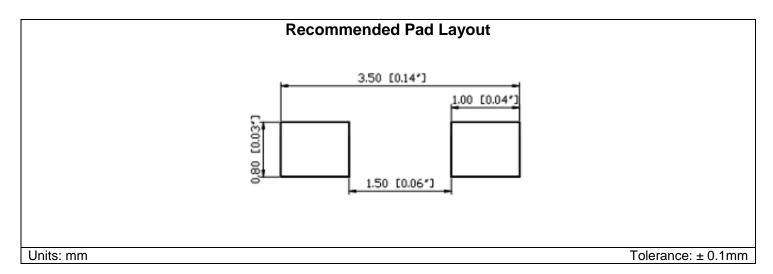
Product: QBLP612-YG	Date: September 16, 2014	Page 5 of 9	
	Version# 1.0		



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):



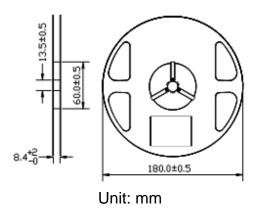


Product: QBLP612-YG	Date: September 16, 2014	Page 6 of 9
	Version# 1.0	

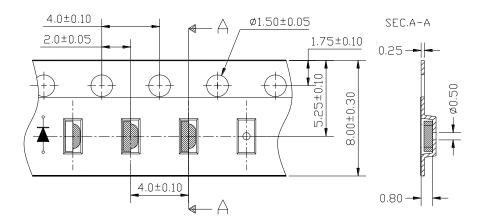


Packing

Reel Dimension:

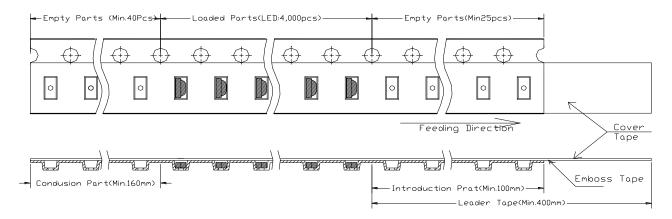


Tape Dimension:



Unit: mm

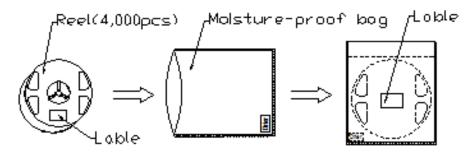
Arrangement of Tape:



Product: QBLP612-YG	Date: September 16, 2014	Page 7 of 9
	Version# 1.0	



Packaging Specifications:



Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
Iv:
WI:
Date: Made in China

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP612-YG	QBLP612-YG	$Iv=15mcd\ typ.\ @\ I_F=20mA,\ \lambda_D:\ 565nm\sim576nm$	4,000 units

Product: QBLP612-YG	Date: September 16, 2014	Page 8 of 9
	Version# 1.0	

Downloaded from Arrow.com.



Revision History

Description:	Revision #	Revision Date
New Release of QBLP612-YG	V1.0	09/16/2014

Disclaimer

QT-BRIGHTEK reserves the right to make changes without further notice to any products herein to improve reliability, function or design. QT-BRIGHTEK does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights, nor the rights of others.

Life Support Policy

QT-BRIGHTEK's products are not authorized for use as critical components in life support devices or systems without the express written approval of QT-BRIGHTEK. As used herein:

- 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.

Product: QBLP612-YG	Date: September 16, 2014	Page 9 of 9
	Version# 1.0	