

QT-Brightek Chip LED Series

SMD 1206 LED

Part No.: QBLP650-YG1-2943

2943: Diffused Lens Version

YG1: Green (GaP, 566nm to 575nm)

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Introduction

Feature:

- White diffused lens
- Package in tape and reel
- 1206 LED package
- GaP technology
- Viewing Angle: 140 deg typ.

Description:

These ultra bright 1206 LEDs have a height profile of 0.8mm. Combination of high brightness output and small footprint, these LEDs are ideal for keypad backlighting and status indication.

Application:

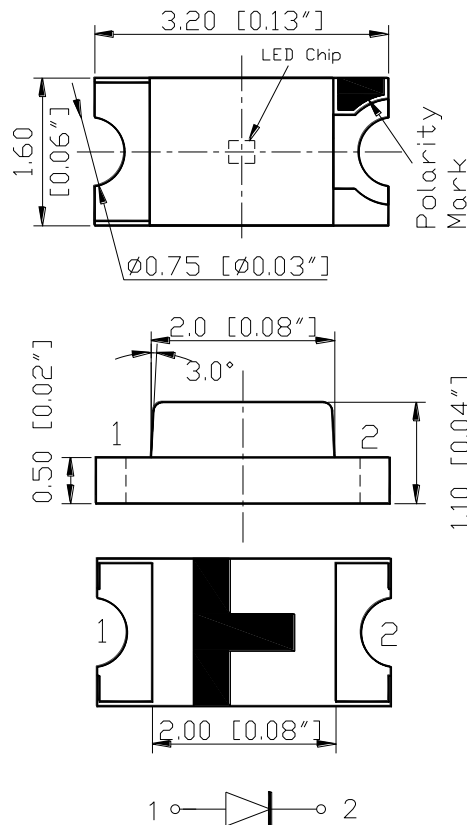
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)			λ _D (nm)			λ _P (nm)	I _V (mcd)		
			Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.	Min.	Typ.	Max.
QBLP650-YG1-2943	Green	20	1.7	2.0	2.5	566	570	575	565	8.0	18	32

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

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

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
□	1.7	2.5	V

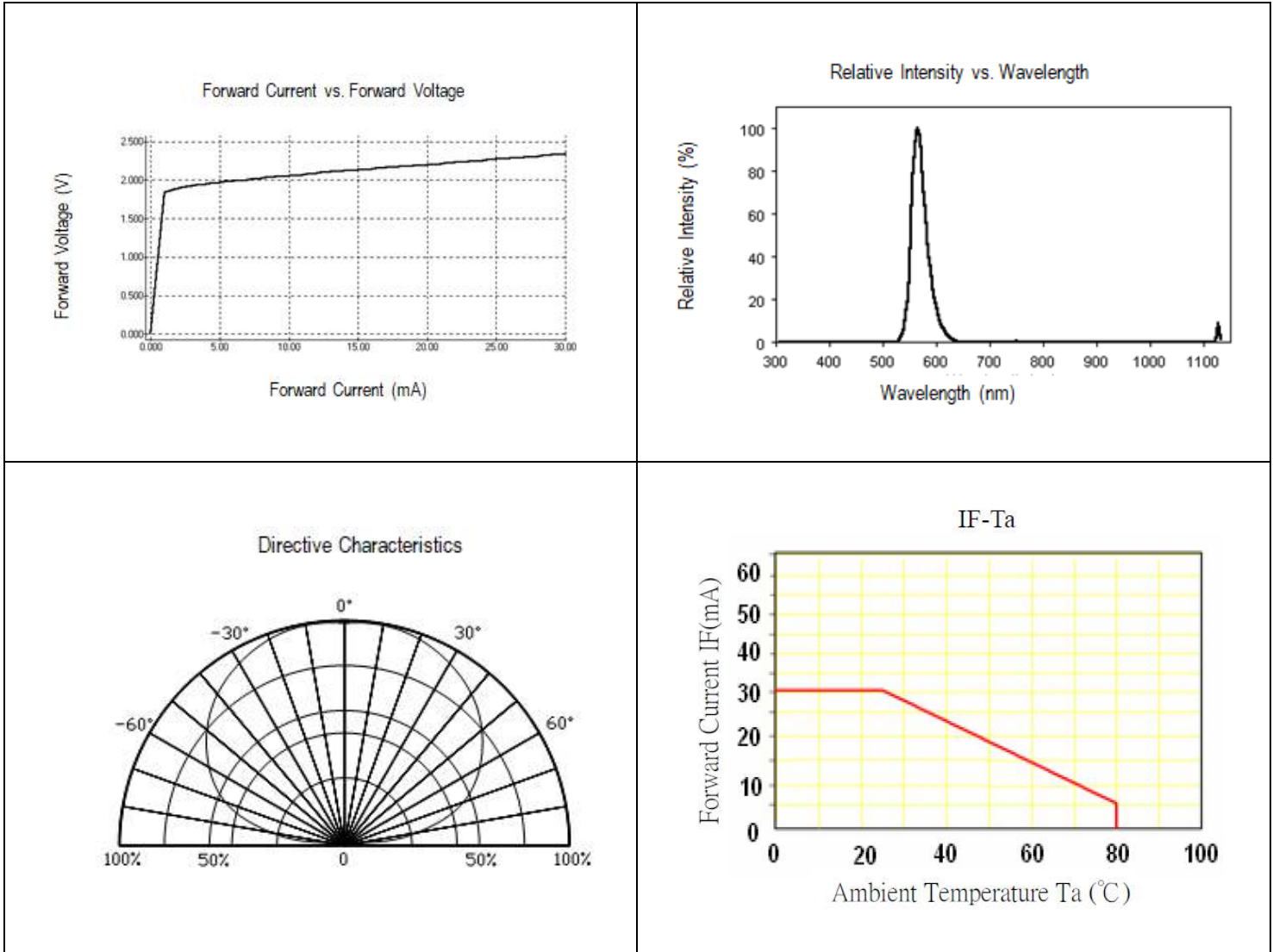
Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
9	8.0	12.5	mcd
A	12.5	16	
B	16	20	
C	20	25	
D	25	32	

Dominant Wavelength λ_D @ I_F=20mA

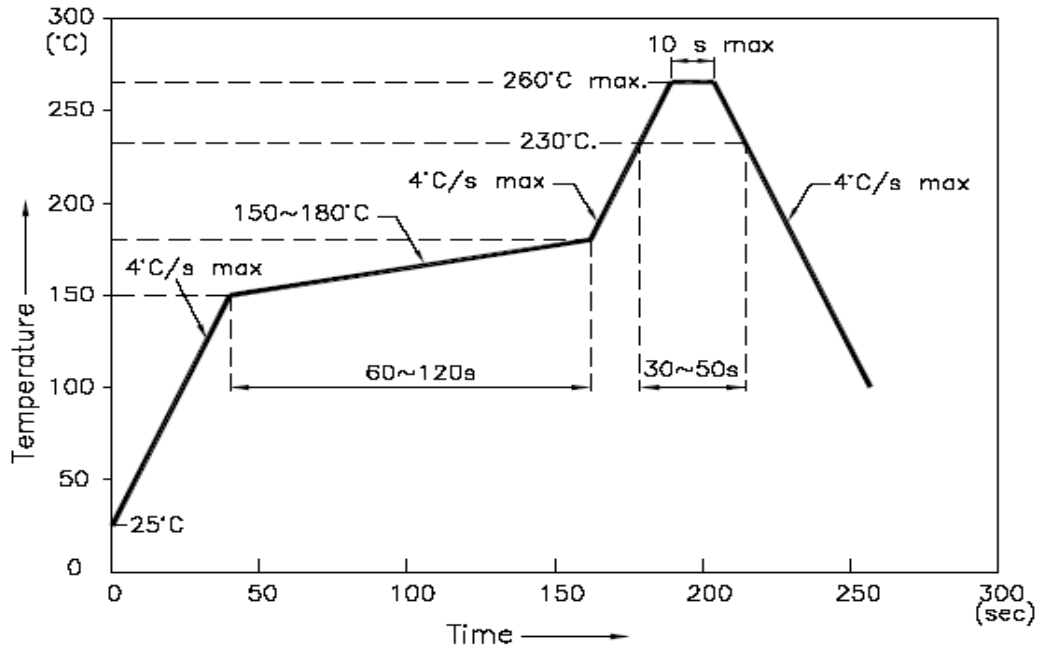
Bin	Min.	Max.	Unit
H	566	569	nm
I	569	572	
J	572	575	

Characteristic Curves

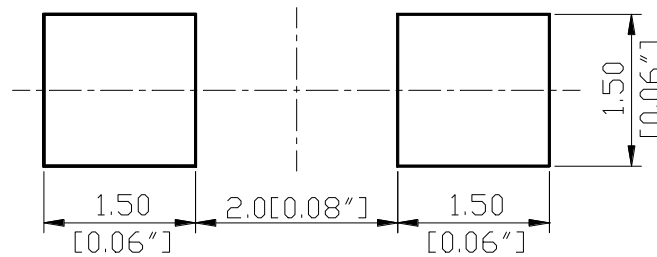


Solder Profile & Footprint

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



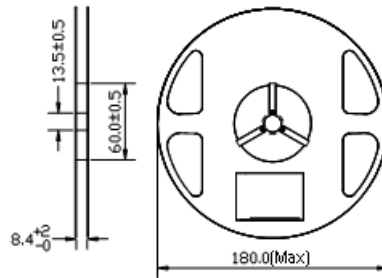
Recommended Pad Layout



Units: mm

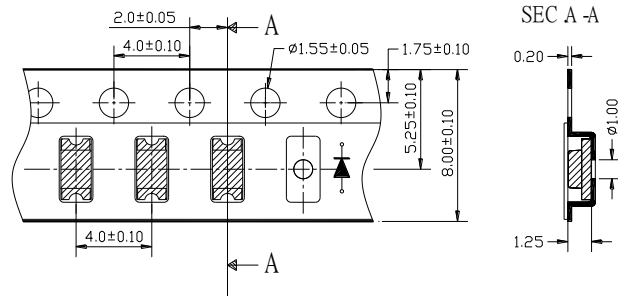
Packing

Reel Dimension:



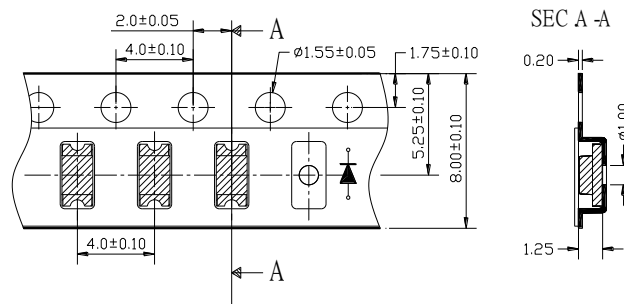
(Unit: mm)

Tape Dimension:

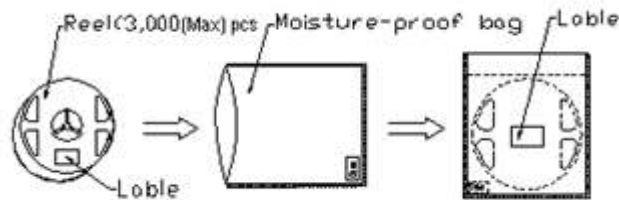


(Unit: mm)

Arrangement of Tape:



Packaging Specifications:



Labeling

Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

Vf: _____

Iv: _____

WI: _____

Date: _____

Made in China**Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP650-YG1-2943	QBLP650-YG1-2943	Iv=18mcd typ. @ I _F =20mA / Color=566nm to 575nm	3,000 units

Product: QBLP650-YG1-2943	Date: December 11, 2021	Page 8 of 9
	Version# 1.1	

Revision History

Description:	Revision #	Revision Date
New Release of QBLP650-YG1-2943	V1.0	10/11/2021
Fix typo on the datasheet description and drawing	V1.1	12/10/2021



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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.