

QT-Brightek Chip LED Series

0603 SMD Chip LED

Part No.: QBLP601-2Y-2943

2943: White Diffused Lens

Product: QBLP601-2Y-2943	Date: October 20, 2025	Page 1 of 9
	Version# 1.0	

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Introduction

Feature:

- White Diffused lens
- Package in tape and reel
- Compact 0603 package
- Viewing angle: 140° typ.
- Height profile: 0.6mm

Application:

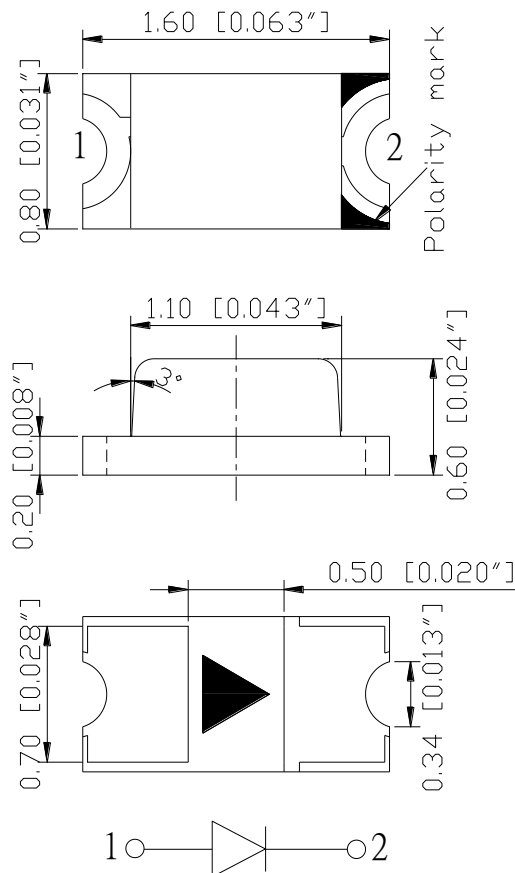
- Status indication

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)	
			Typ.	Max.	Min.	Typ.	Max.	Typ.	Min.	Typ.
QBLP601-2Y-2943	Yellow	20	2.0	2.5	585	590	593	588	40	63

Absolute Maximum Rating

Chip Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AllnGaP	75	30	100	5	-40 ~ +80	-40 ~ +85	260

*Duty 1/10 @ 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

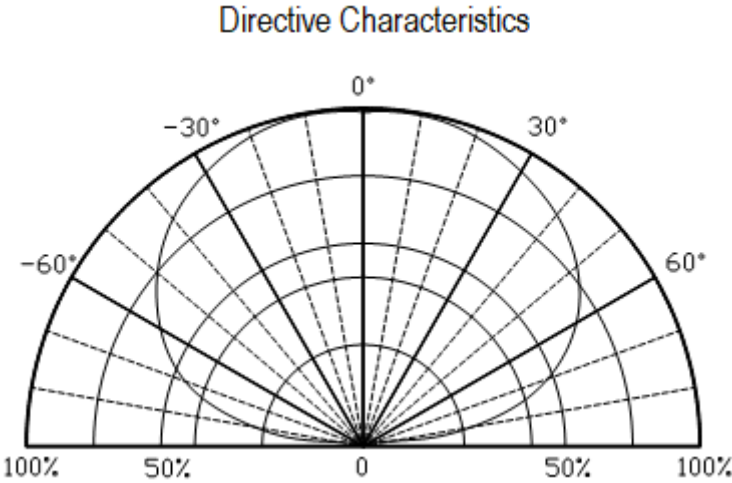
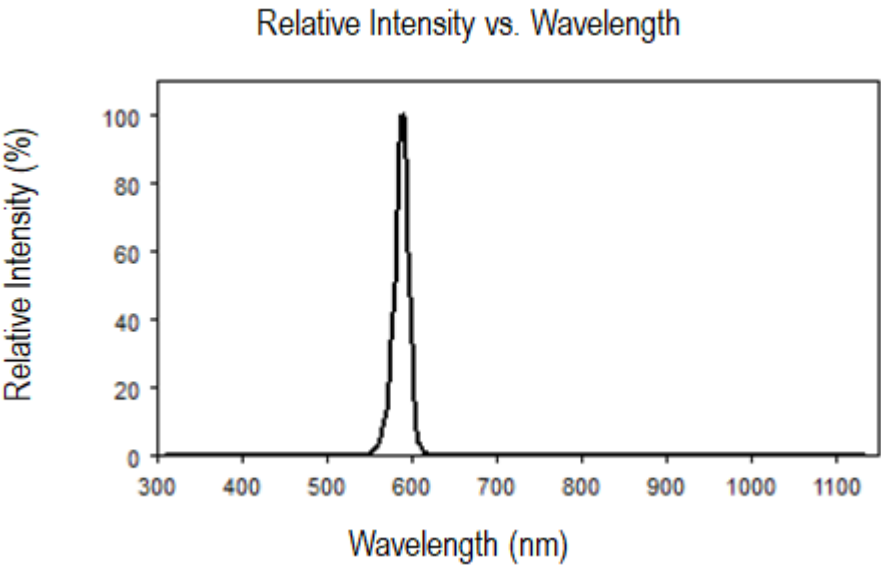
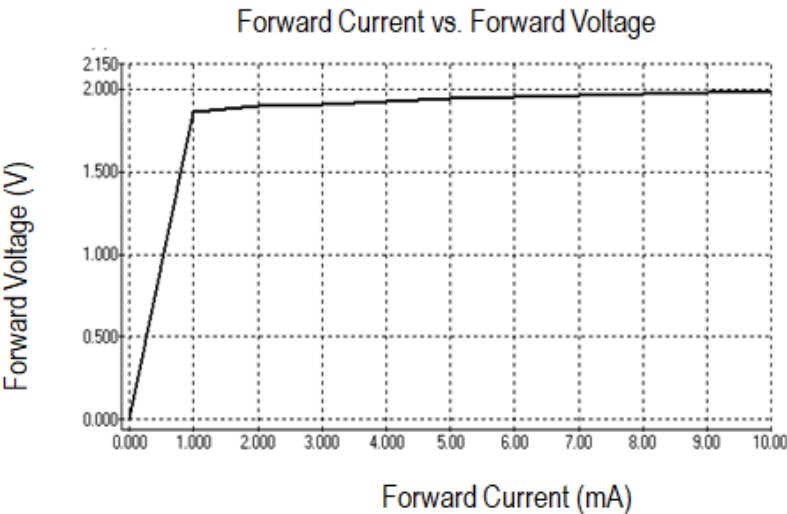
Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
F	40	50	mcd
G	50	63	
H	63	80	
I	80	100	
J	100	125	

Dominant Wavelength λ_D for Yellow @ I_F=20mA

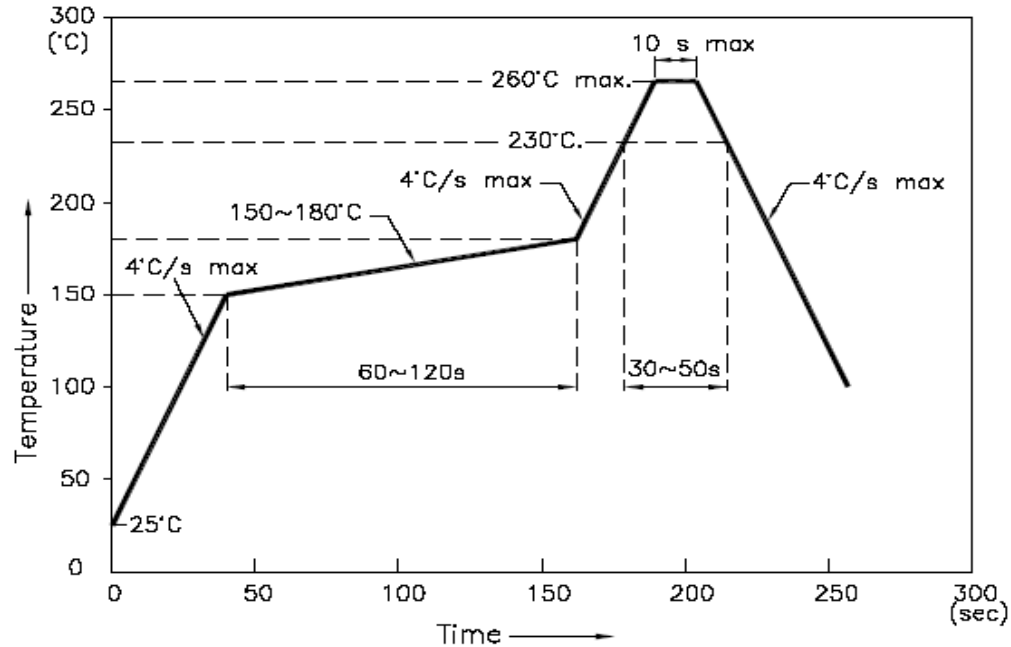
Bin	Min.	Max.	Unit
2m	585	589	nm
2n	589	593	

Characteristic Curves

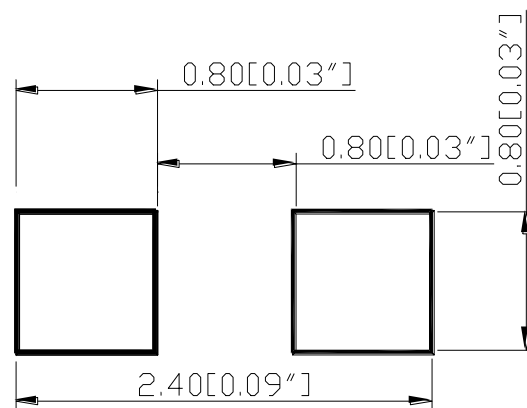


Solder Profile & Footprint

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



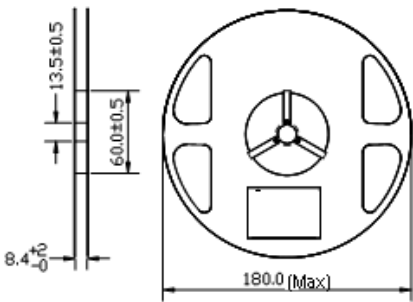
Recommended Pad Layout



Units: mm

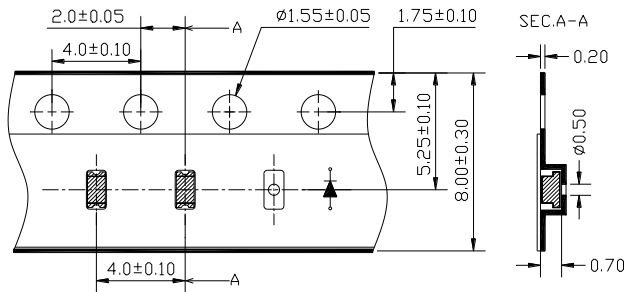
Packing

Reel Dimension:



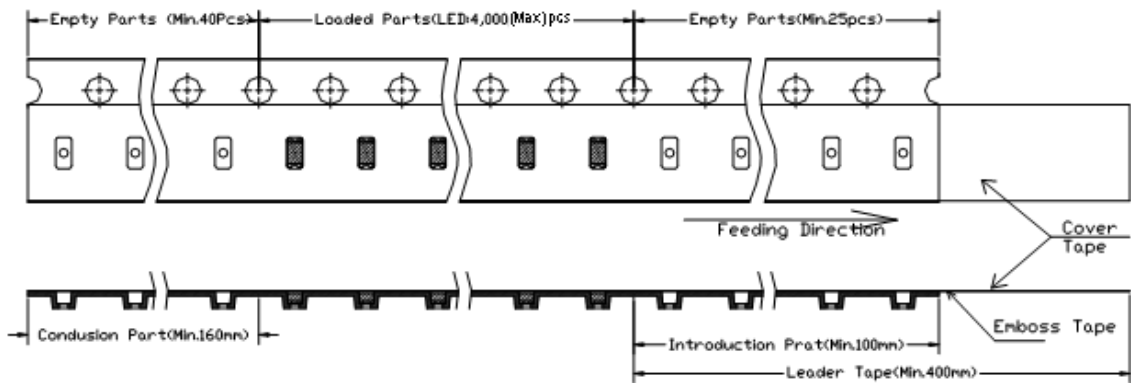
(Unit: mm)

Tape Dimension:

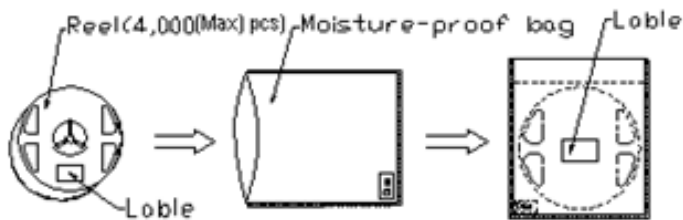


(Unit: mm)

Arrangement of Tape:



Packaging Specifications:



Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-2Y-2943	V1.0	10/20/2025

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.