

QT-Brightek Chip LED Series

SMD 0402 Yellow LED

Part No.: QBLP595-YA-2897

**A: 10mA
2897: High Bright**



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Introduction

Feature:

- Water clear lens
- Color: yellow
- Package in tape and reel
- Compact 0402 package
- Viewing angle: 140° typ.
- Height profile: 0.5mm

Application:

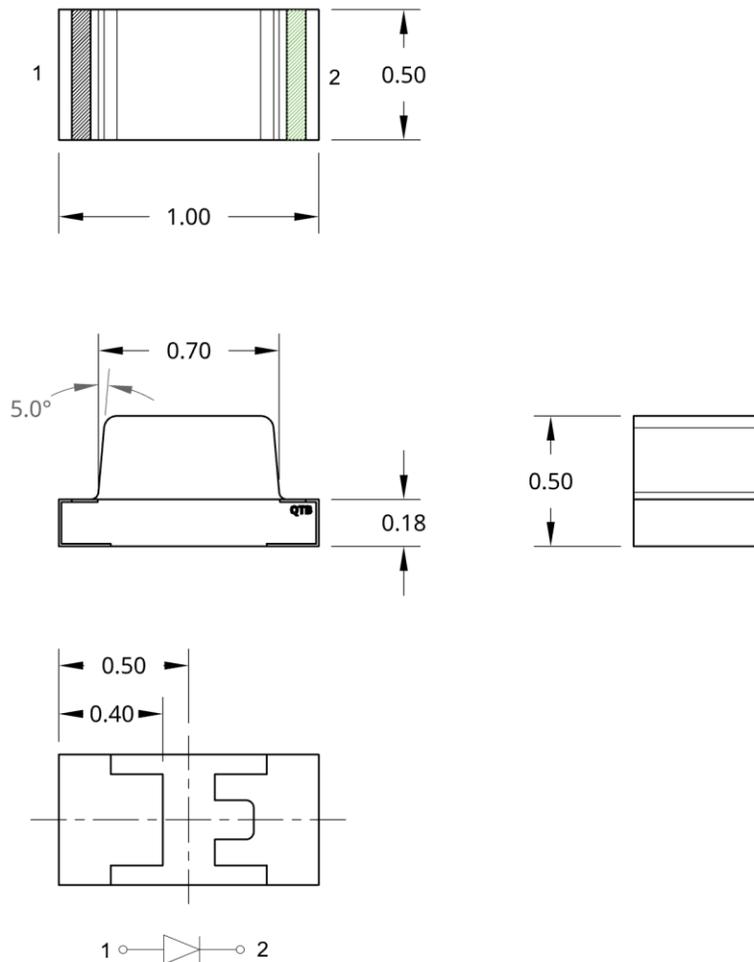
- Status indication
- Back lighting application

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)	
			Typ.	Max.	Min.	Typ.	Max.	Typ.	Min.	Typ.
QBLP595-YA-2897	Yellow	10	2.0	2.4	585	590	595	590	80	155

Absolute Maximum Rating

Chip Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SO L} (°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=10mA

Bin	Min.	Max.	Unit
□	1.7	2.4	V

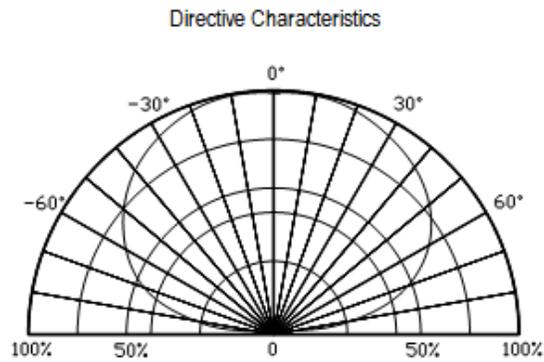
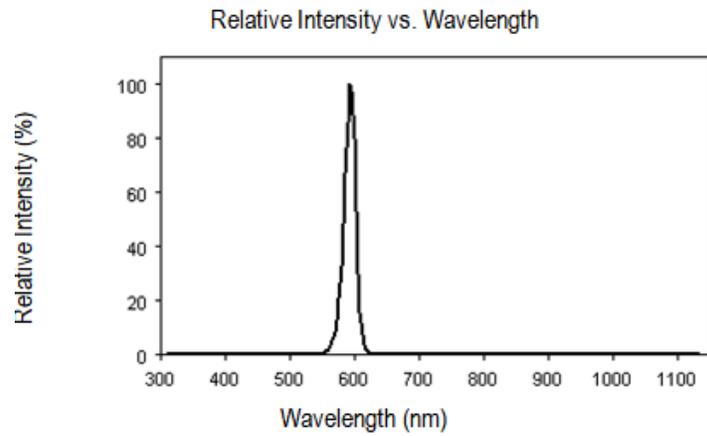
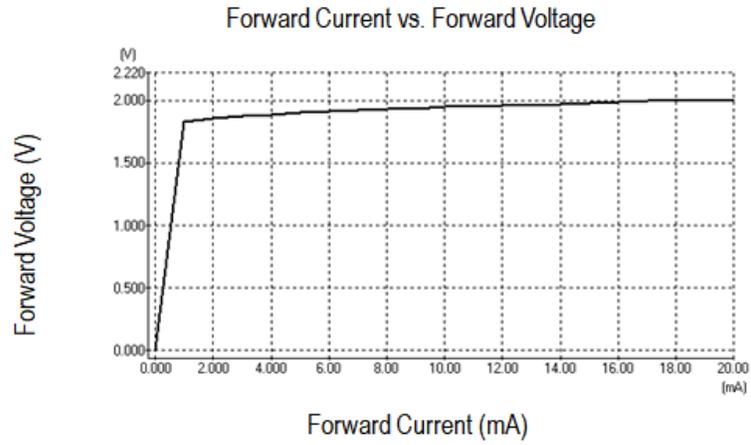
Luminous Intensity I_V @ I_F=10mA

Bin	Min.	Max.	Unit
H	80	100	mcd
I	100	125	
J	125	160	
K	160	200	
L	200	250	

Dominant Wavelength λ_D @ I_F=10mA

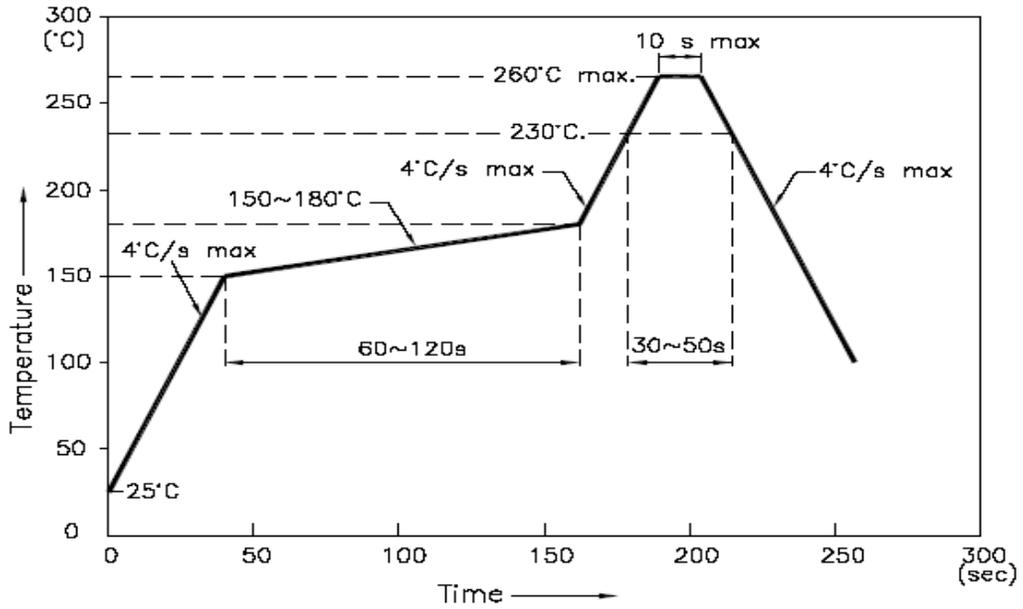
Bin	Min.	Max.	Unit
m	585	590	nm
n	590	595	

Characteristic Curves

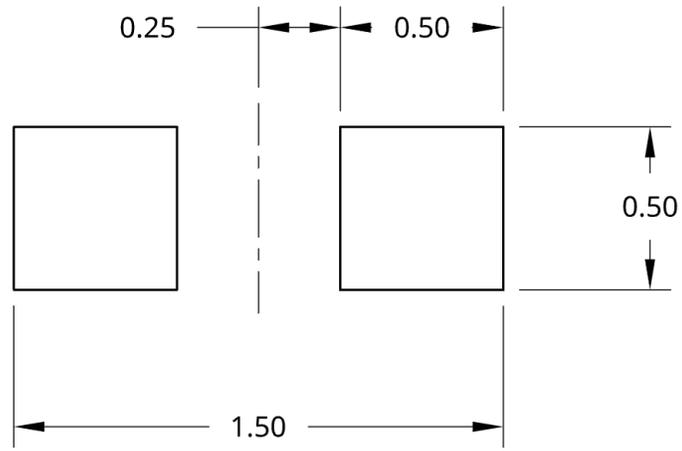


Solder Profile & Footprint

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



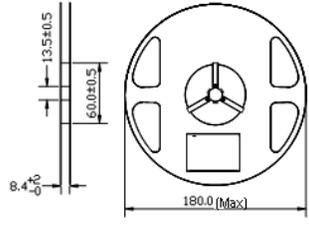
Recommended Pad Layout



Units: mm

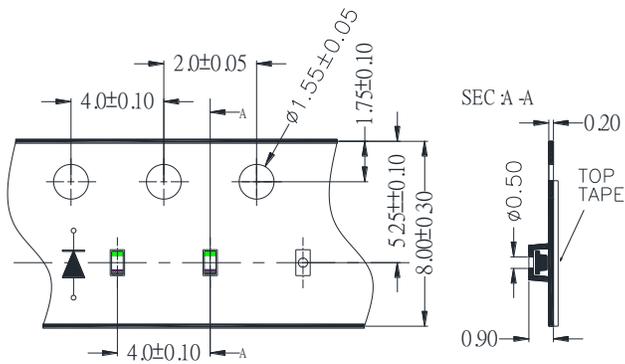
Packing

Reel Dimension:



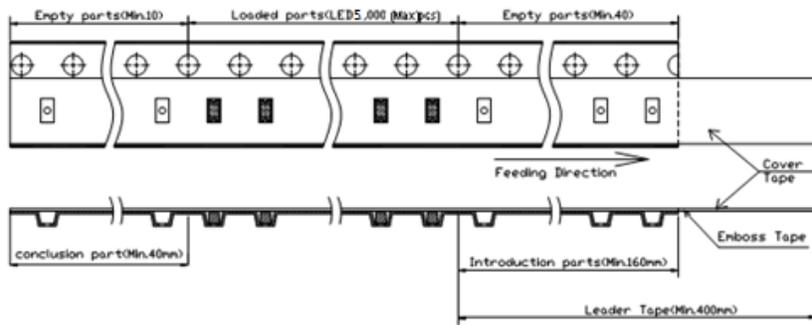
Unit: mm

Tape Dimension:

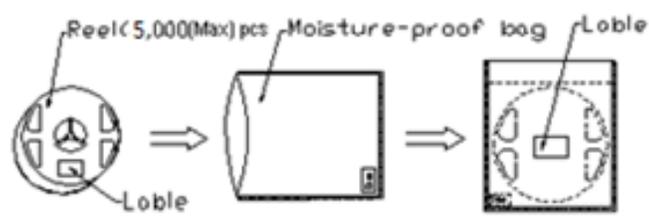


Unit: mm

Arrangement of Tape:



Packaging Specifications:



Labeling



Part No: _____
Customer P/N: _____
Item: _____
Q'ty: _____
Vf: _____
Iv: _____
WI: _____
Date: _____

Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP595-YA-2897	Iv=155mcd typ. @ If=10mA / Color=585 to 595nm	5,000 units



Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-YA-2897	V1.0	04/14/2025
Drawing redrafted for clarity and documentation consistency; no changes to form, fit, or function.	V1.1	02/16/2026

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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.

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