QT-Brightek Chip LED Series

SMD 0402 Green LED

Part No.: QBLP595-AG15-2897

AG1: 566 to 575nm
5: 5mA
2897: High Bright

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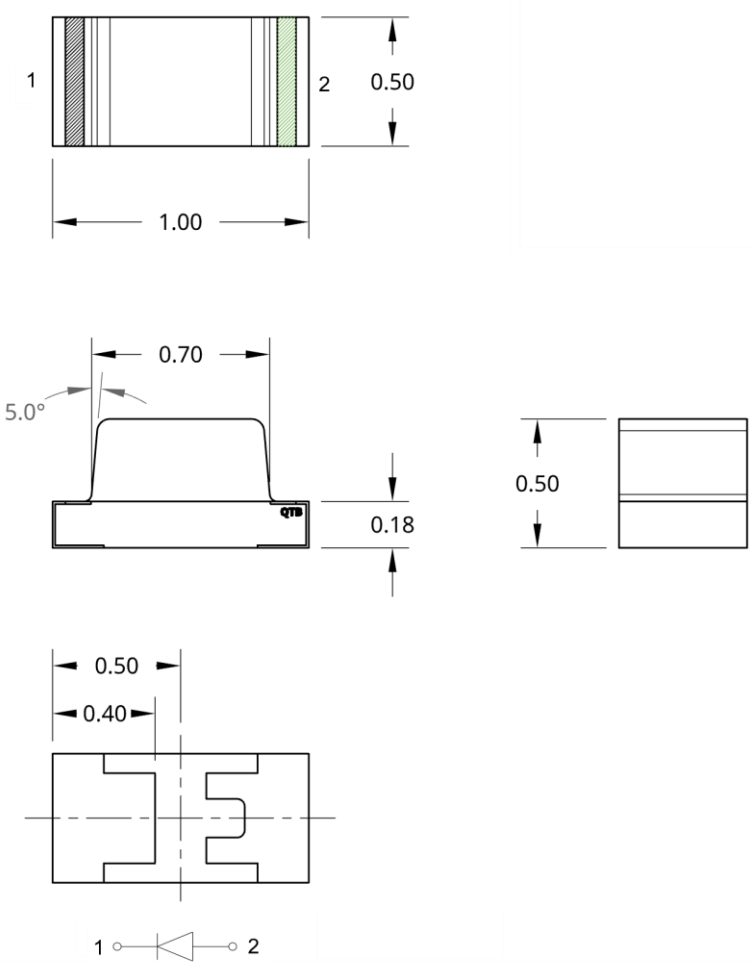
Introduction

Feature:
- Water clear lens
- Color: Green
- 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

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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-AG15-2897	Green	5	1.9	2.3	566	570	575	574	8.0	16.5

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)**
AlInGaP	69	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=5mA

Bin	Min.	Max.	Unit
☐	1.7	2.3	V

Luminous Intensity I_V @ I_F=5mA

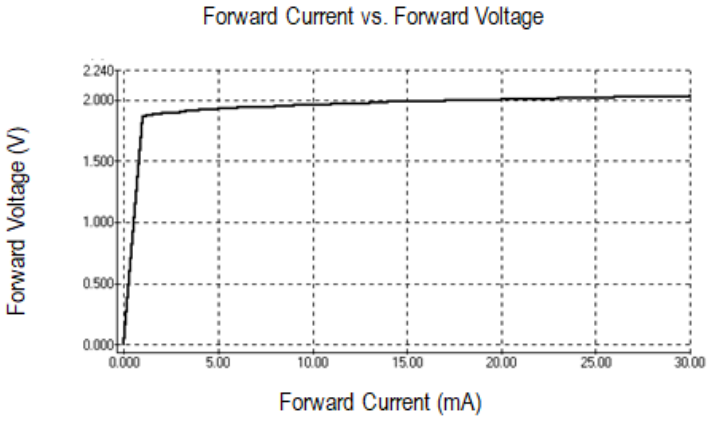
Bin	Min.	Max.	Unit
9	8.0	12.5	mcd
A	12.5	16	
B	16	20	
C	20	25	

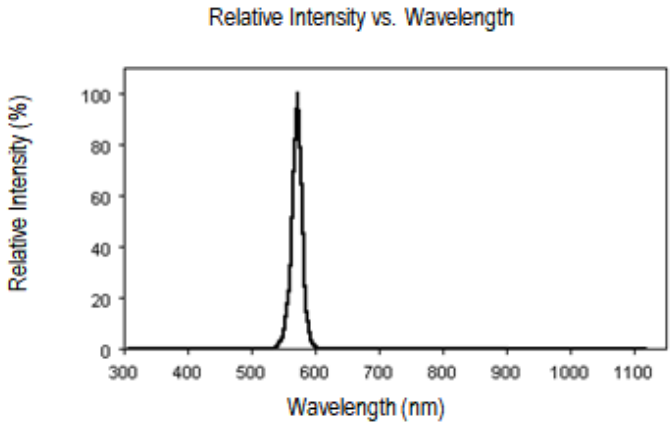
Dominant Wavelength λ_D @ I_F=5mA

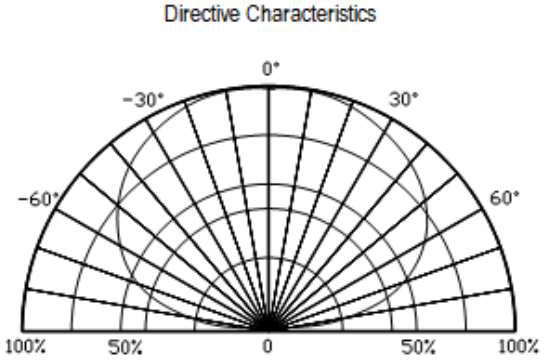
Bin	Min.	Max.	Unit
H	566	569	nm
I	569	572	
J	572	575	

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Characteristic Curves



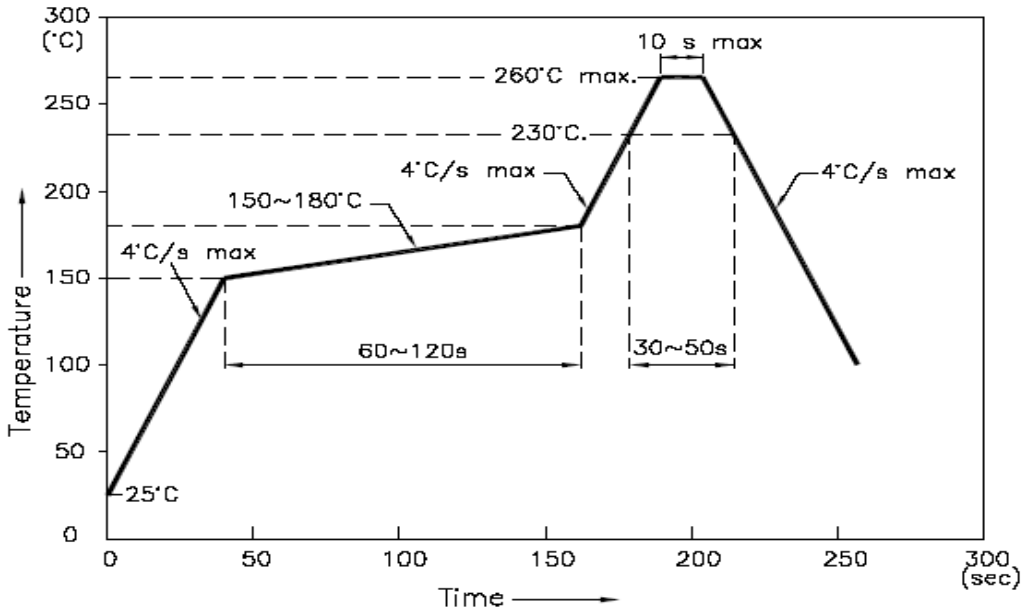




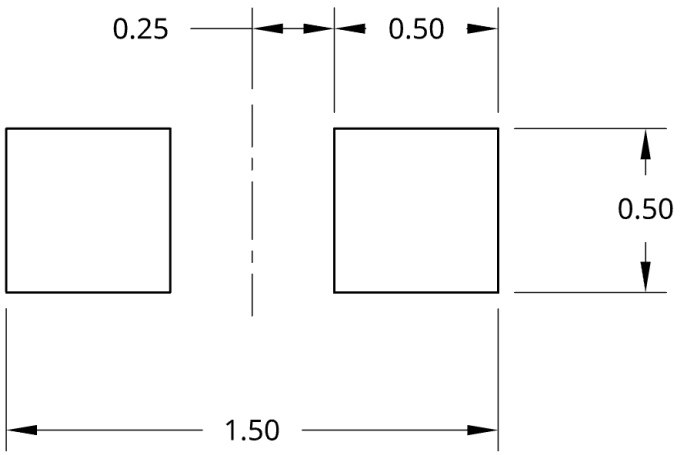
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Solder Profile & Footprint

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



Recommended Pad Layout

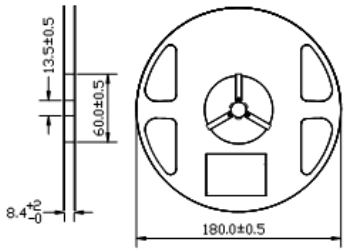


Units: mm

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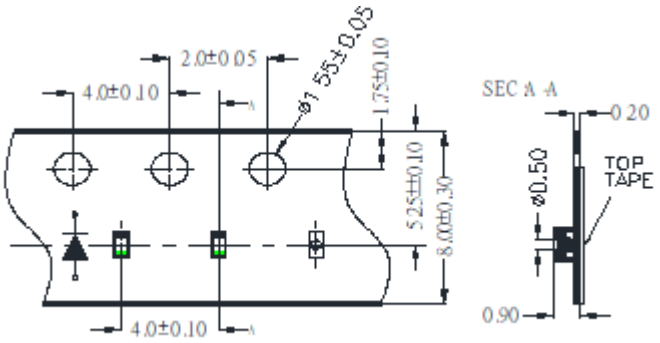
Packing

Reel Dimension:



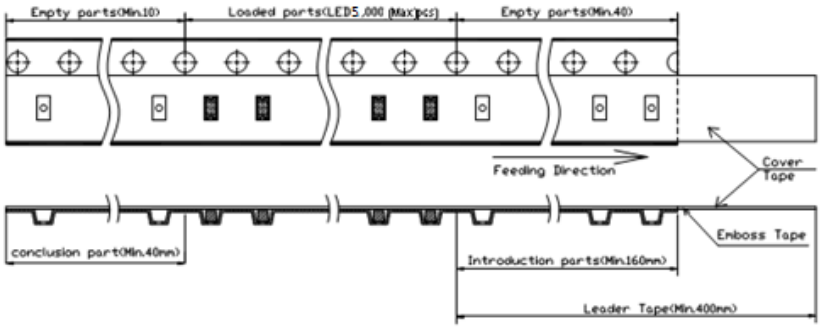
Unit: mm

Tape Dimension:

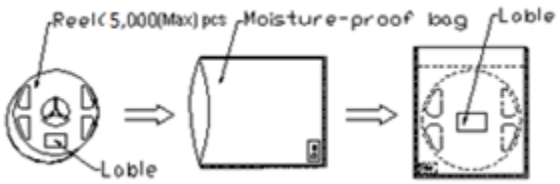


Unit: mm

Arrangement of Tape:



Packaging Specifications:



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Labeling



Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP595-AG15-2897	Iv=16.5mcd typ. @ I_F=5mA / Color=566 to 575nm	5,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-AG15-2897	V1.0	07/12/2022
Add WLP typical value	V1.1	02/21/2025
Drawing redrafted for clarity and documentation consistency; no changes to form, fit, or function.	V1.2	02/13/2026

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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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