

QT-Brightek Chip LED Series

0402 SMD Green LED

Part No.: QBLP595-2IG5-2897

5: 5mA
2897: Hight Bright

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Introduction

Feature:

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

Application:

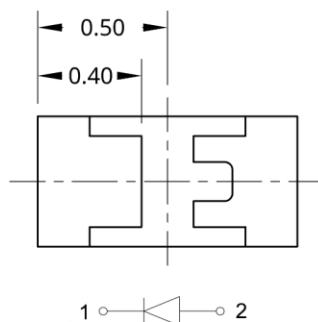
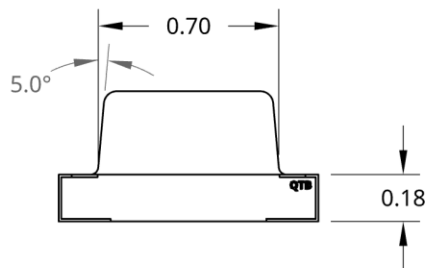
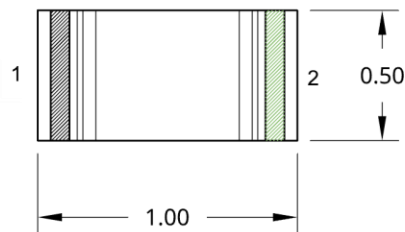
- Status indication
- Back lighting application

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.
QBLP595-2IG5-2897	Green	5	2.7	3.1	525	530	535	520	190	370

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)**
InGaN	93	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
e	2.5	2.8	V
f	2.8	3.1	

Luminous Intensity I_V @ I_F=5mA

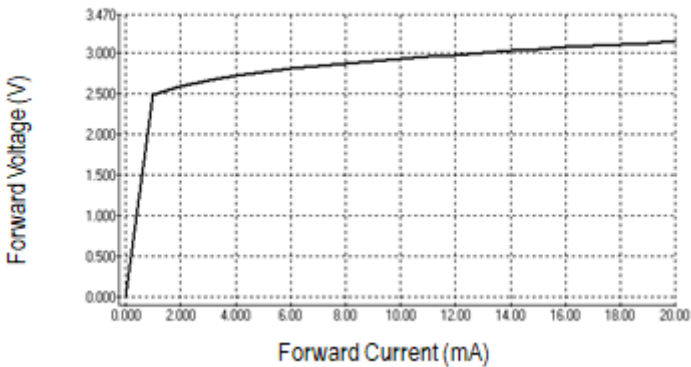
Bin	Min.	Max.	Unit
2L	190	238	mcd
2M	238	297	
2N	297	371	
2O	371	464	
2P	464	580	

Dominant Wavelength λ_D @ I_F=5mA

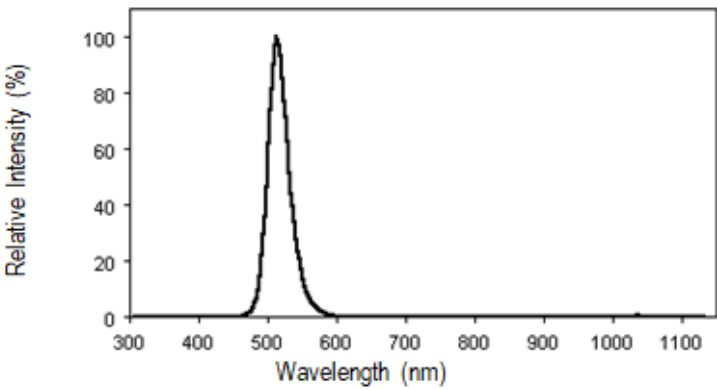
Bin	Min.	Max.	Unit
W	525	527.5	nm
X	527.5	530	
Y	530	532.5	
Z	532.5	535	

Characteristic Curves

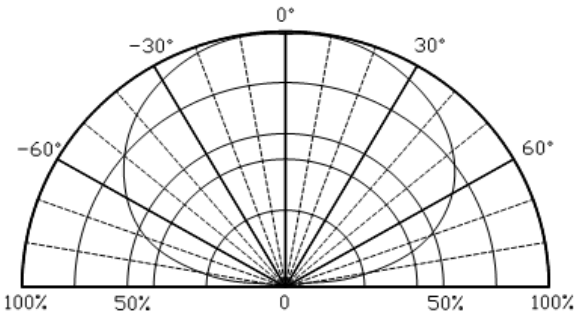
Forward Current vs. Forward Voltage



Relative Intensity vs. Wavelength

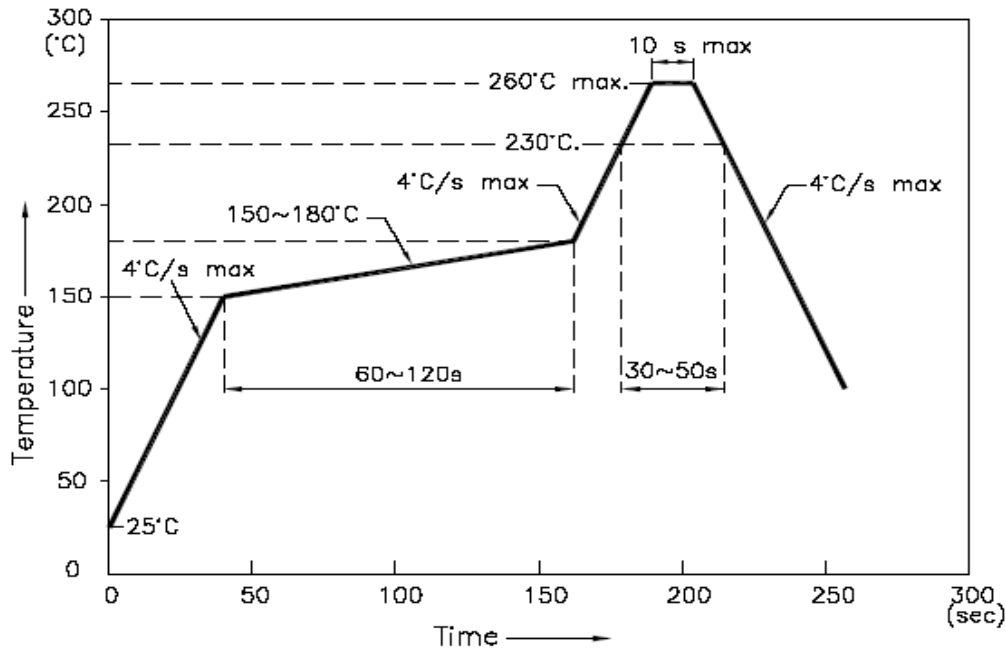


Directive Characteristics

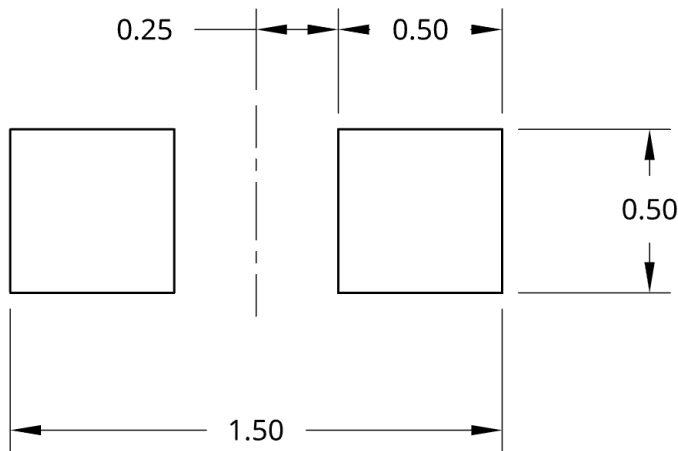


Solder Profile & Footprint

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



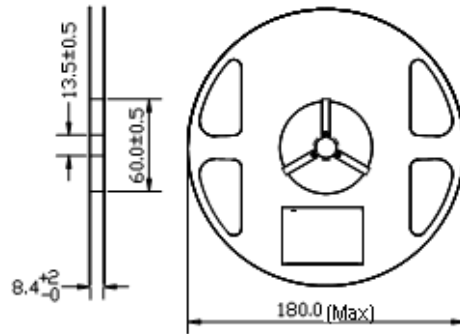
Recommended Pad Layout



Units: mm

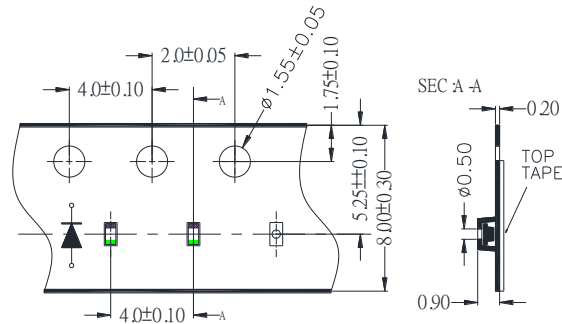
Packing

Reel Dimension:



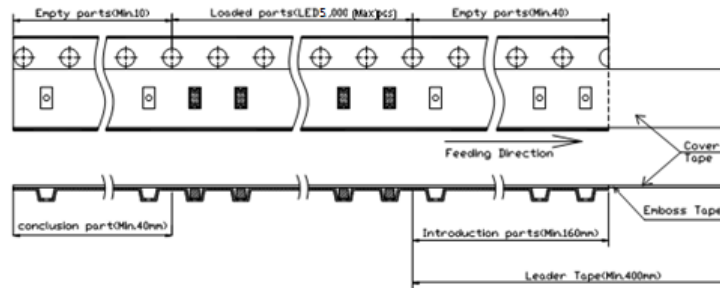
(Unit: mm)

Tape Dimension:

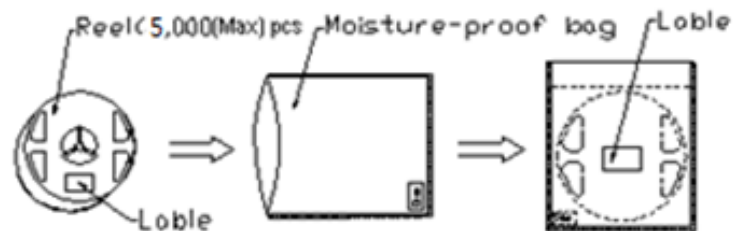


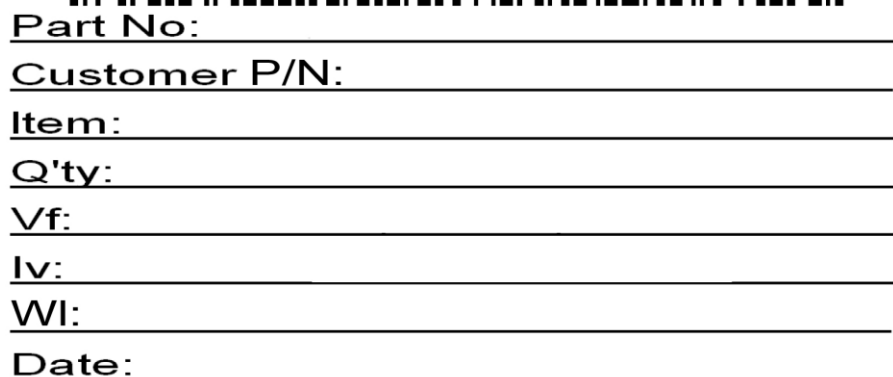
(Unit: mm)

Arrangement of Tape:



Packaging Specifications:





Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP595-2IG5-2897	lv=370mcd typ. @ 5mA, λ_D =525nm to 535nm	5,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-2IG5-2897	V1.0	04/11/2025
Drawing redrafted for clarity and documentation consistency; no changes to form, fit, or function.	V1.1	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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