

QT-Brightek Chip LED Series

0402 SMD Chip LED

Part No.: QBLP595-IG5-2897

5: 5mA

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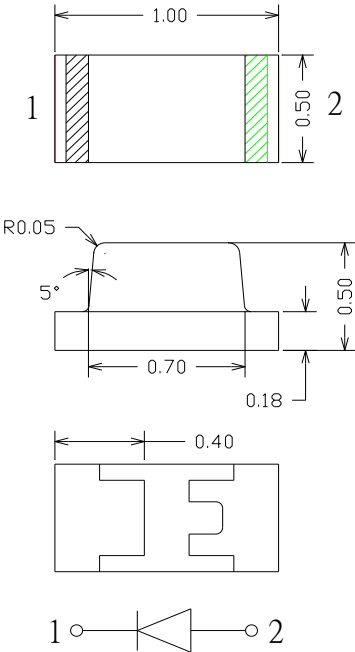
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Introduction

Feature: • Water clear lens • Package in tape and reel • Compact 0402 package • InGaN technology • Viewing angle: 140° typ. • Height profile: 0.5mm	Application: • Status indication • Back lighting application Certification & Compliance: • ISO9001 • RoHS Compliant 
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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-IG5-2897	True Green	5	2.7	3.1	525	528	535	520	160	330

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)**
InGaN	96	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
A	2.5	2.8	V
B	2.8	3.1	

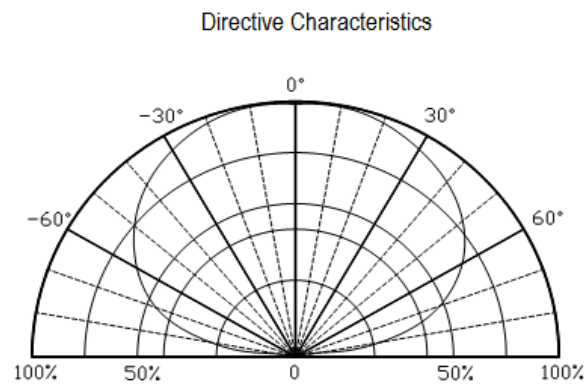
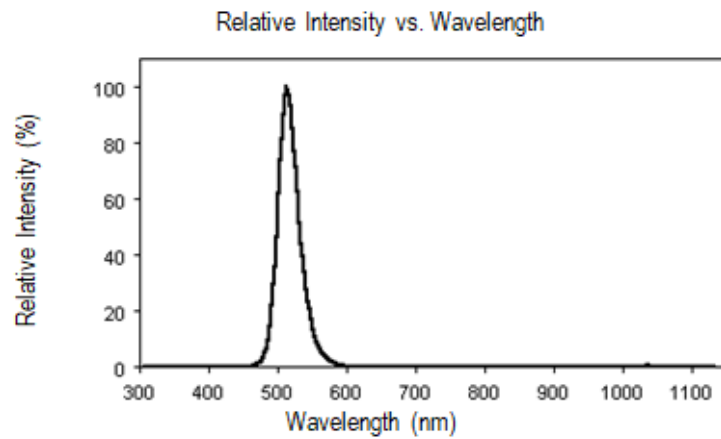
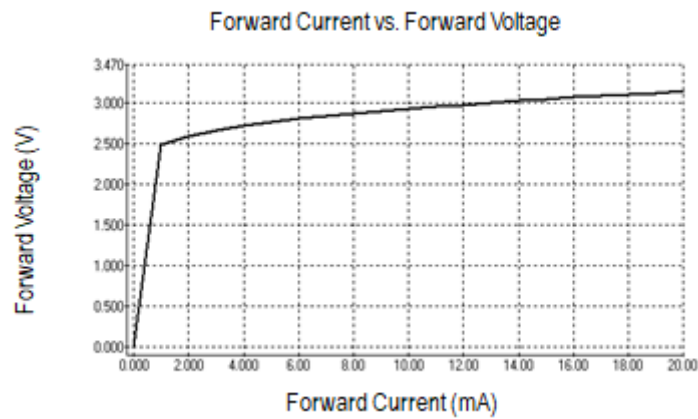
Luminous Intensity I_V @ I_F=5mA

Bin	Min.	Max.	Unit
L	160	200	mcd
M	200	250	
N	250	320	
O	320	400	
P	400	500	

Dominant Wavelength λ_D @ I_F=5mA

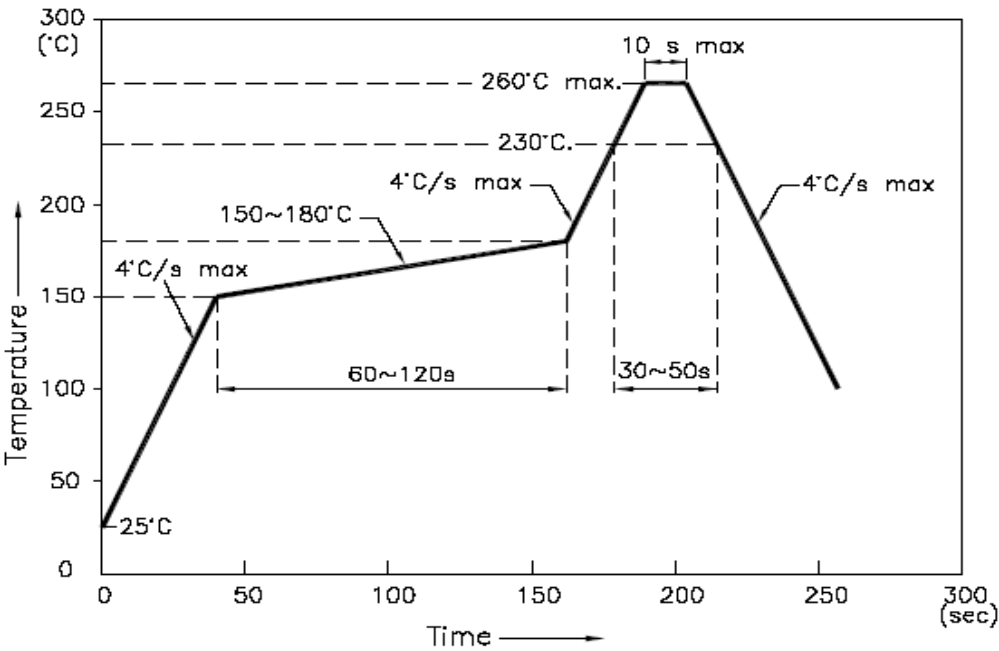
Bin	Min.	Max.	Unit
W	525	527.5	nm
X	527.5	530	
Y	530	532.5	
Z	532.5	535	

Characteristic Curves

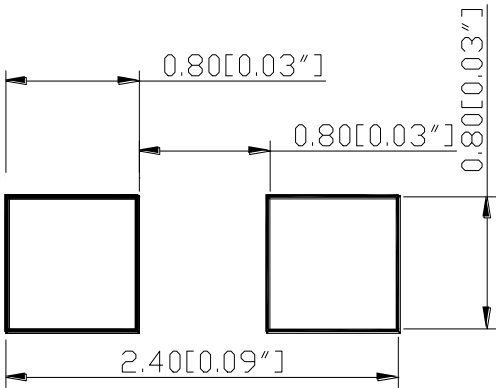


Solder Profile & Footprint

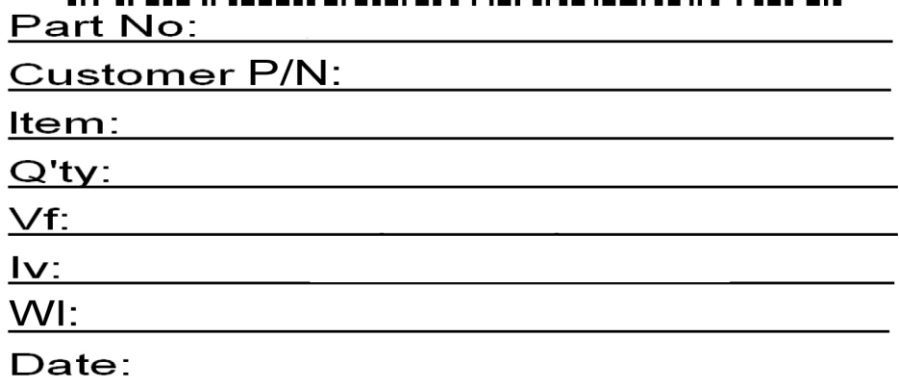
-The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



Recommended Pad Layout



Units: mm



Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP595-IG5-2897	lv=330mcd typ. @ 5mA, λ_D =525nm to 535nm	5,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-IG5-2897	V1.0	08/04/2022
Add WLP typical value, update IV typical value	V1.1	02/21/2025

Disclaimer

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1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
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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