

QT-Brightek Chip LED Series

SMD 0402 Green LED

Part No.: QBLP595-AG5

5: 5mA

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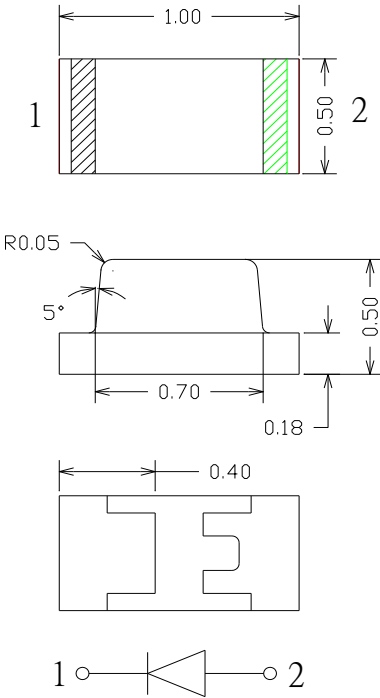
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Introduction

Feature: • Water clear lens • Color: green • Package in tape and reel • Compact 0402 package • AlInGaP 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-AG5	Yellow Green	5	2.0	2.3	565	570	576	572	4.0	9

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

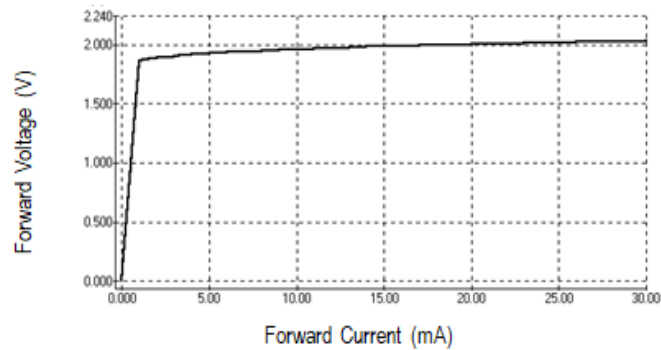
Bin	Min.	Max.	Unit
8Q	4.0	6.7	mcd
9Q	6.7	10.5	
QA	10.5	14	
QB	14	18	

Dominant Wavelength λ_D @ I_F=5mA

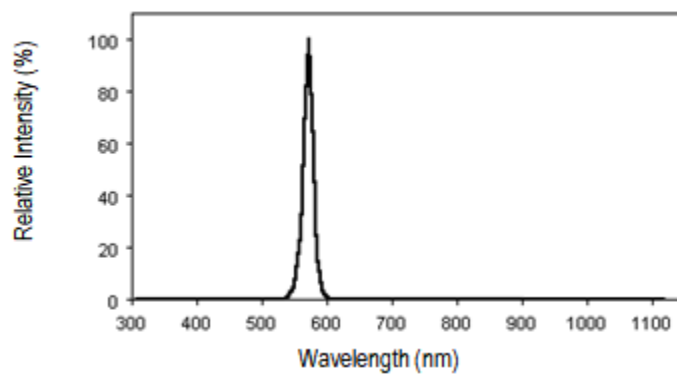
Bin	Min.	Max.	Unit
h	565	568	nm
i	568	572	
j	572	576	

Characteristic Curves

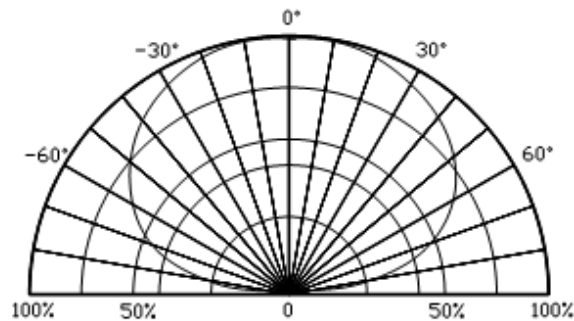
Forward Current vs. Forward Voltage



Relative Intensity vs. Wavelength

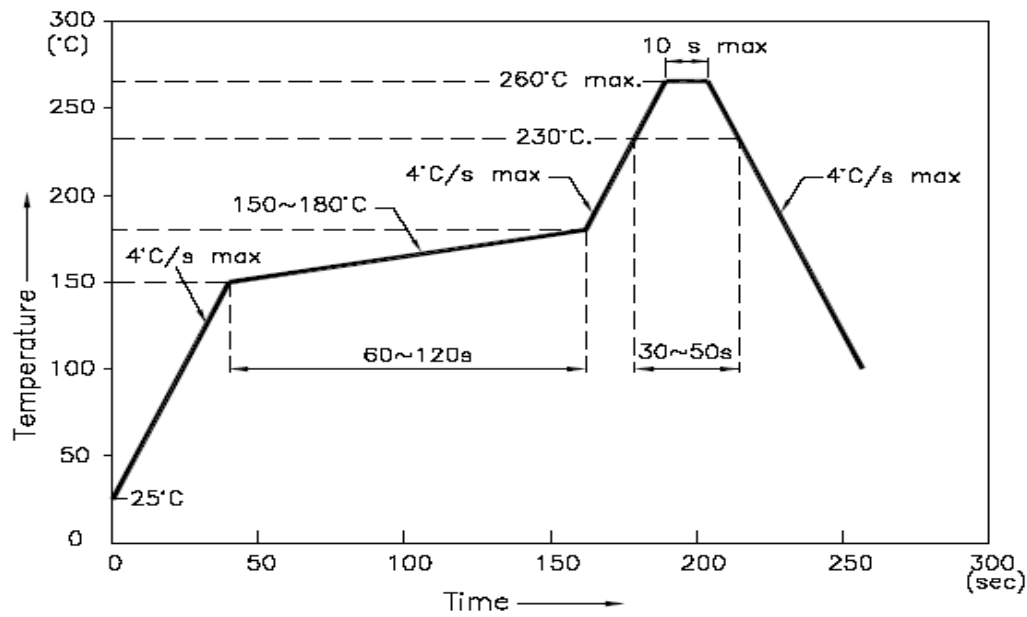


Directive Characteristics

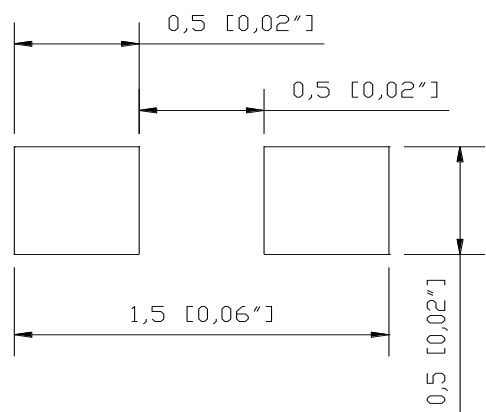


Solder Profile & Footprint

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



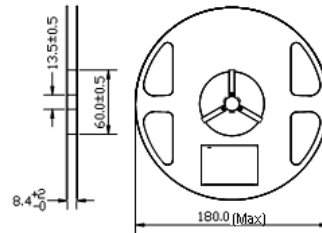
Recommended Pad Layout



Units: mm

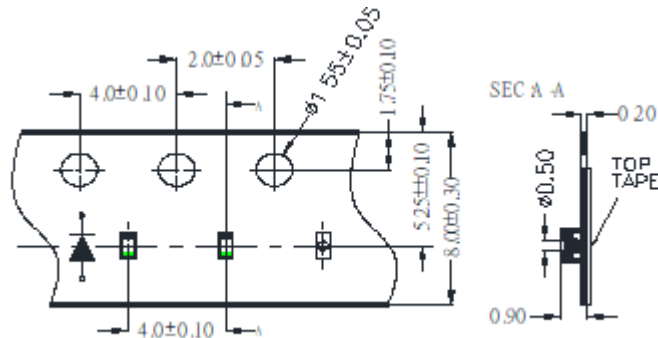
Packing

Reel Dimension:



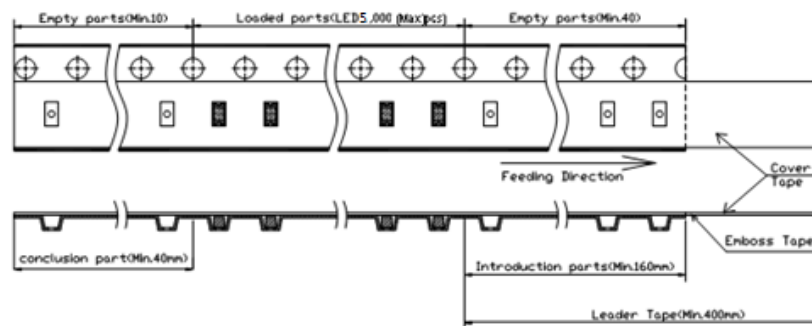
Unit: mm

Tape Dimension:

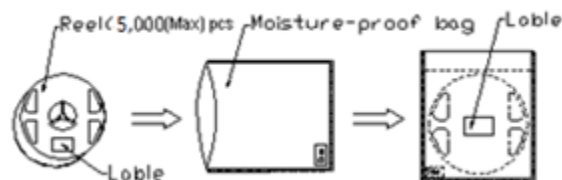


Unit: mm

Arrangement of Tape:



Packaging Specifications:





Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-AG5	V1.0	04/11/2025

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.