

QT-Brightek Chip LED Series

SMD 0603 LED

Part No.: QBLP601-Y5-2897

**2897: High Brightness Version
5: 5mA**

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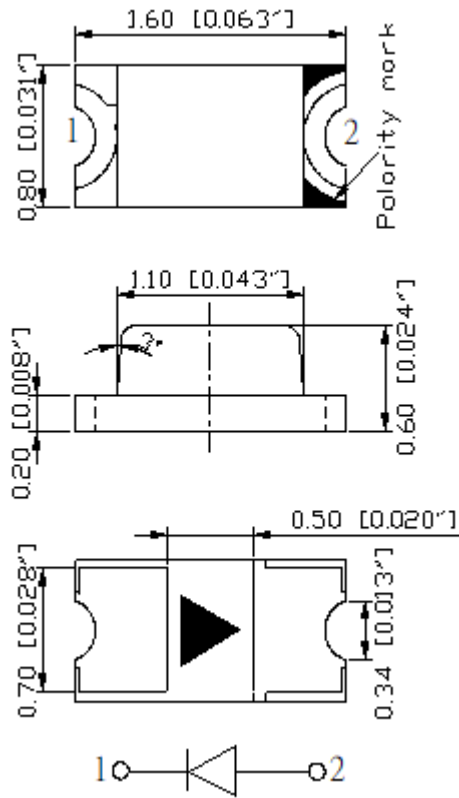
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Introduction

Feature: • Water clear lens • Package in tape and reel • Ultra bright 0603 LED package • AllnGaP technology • Beam angle: 140 deg typ. • Height profile: 0.6mm	Application: • Status indication • Back lighting application Certification & Compliance: • ISO9001 • RoHS Compliant 
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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.
QBLP601-Y5-2897	Yellow	5	1.9	2.3	585	590	595	592	50	104

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)**
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
A	1.7	2.0	V
B	2.0	2.3	

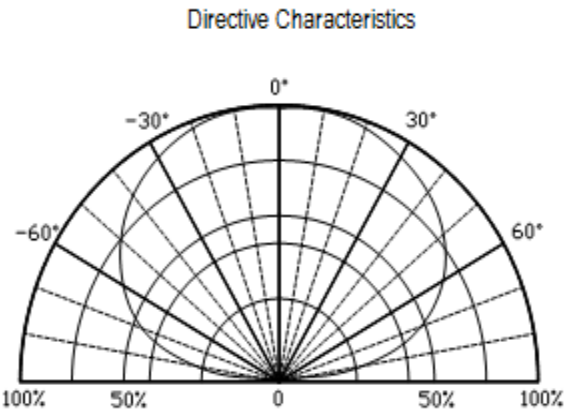
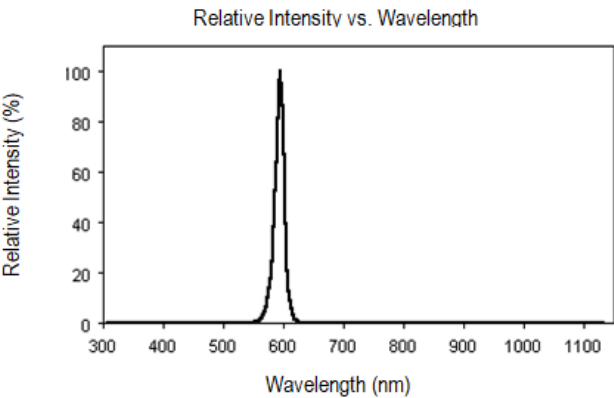
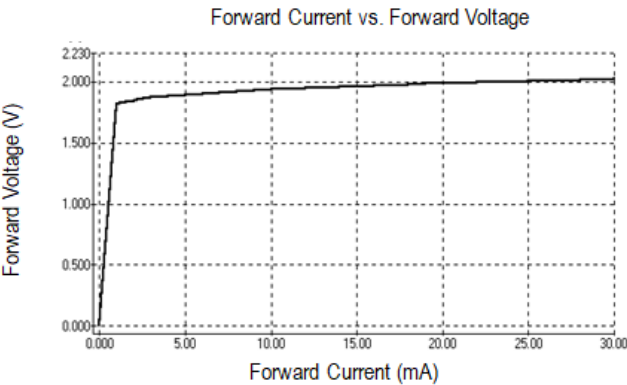
Luminous Intensity I_V @ I_F=5mA

Bin	Min.	Max.	Unit
G	50	63	mcd
H	63	80	
I	80	100	
J	100	125	
K	125	160	

Dominant Wavelength λ_D @ I_F=5mA

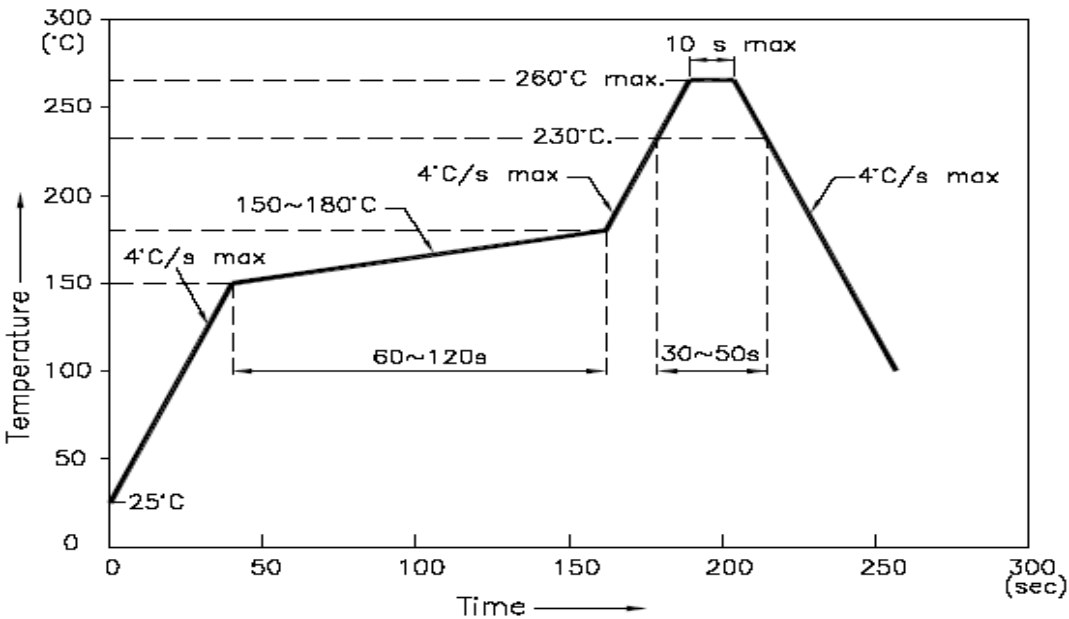
Bin	Min.	Max.	Unit
m	585	590	nm
n	590	595	

Characteristic Curves

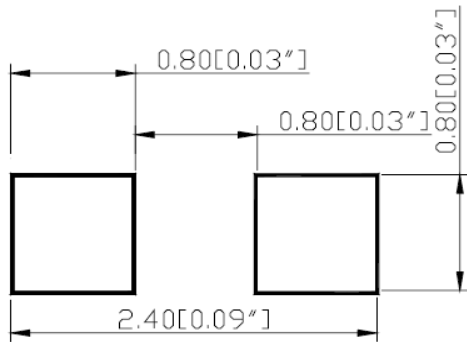


Solder Profile & Footprint

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



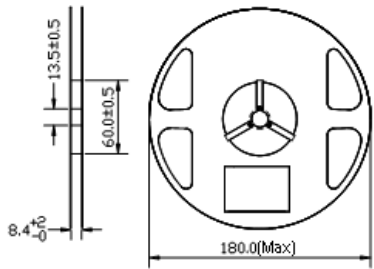
RECOMMEND PAD LAYOUT



Units: mm

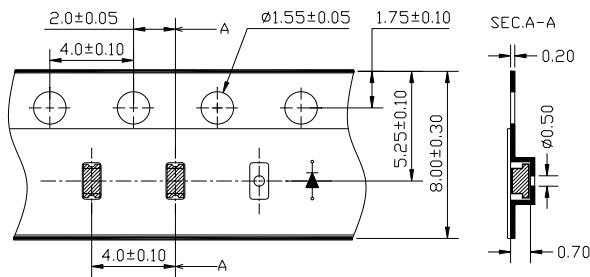
Packing

Reel Dimension:



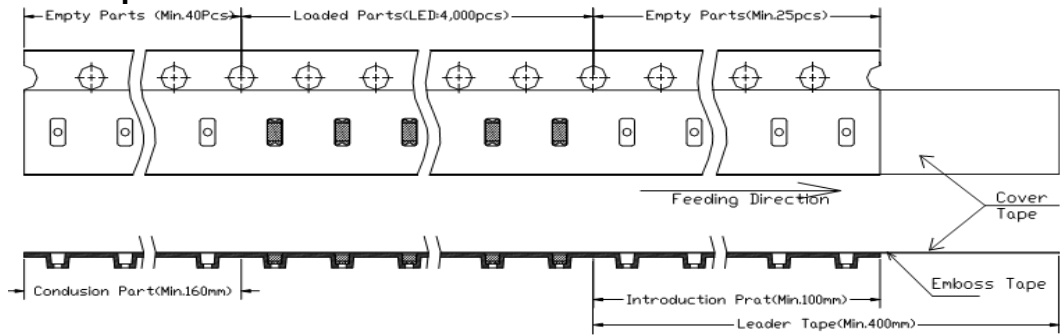
Unit: mm

Tape Dimension:

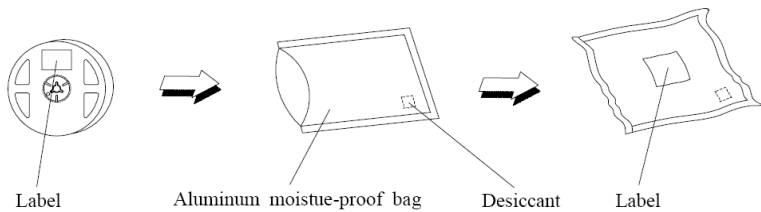


Unit: mm

Arrangement of Tape:



Packaging Specifications:





Date: _____

Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP601-Y5-2897	Iv=104mcd typ. @ I _F =5mA / λ _D =585nm to 595nm	4,000 units



Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-Y5-2897	V1.0	10/18/2023
Update typical Iv value	V1.1	01/27/2025

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.