

QT-Brightek Chip LED Series

0603 SMD Chip LED

Part No.: QBLP601-IB5-S2897

5: 5mA

S2897: Ultra High Bright

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Introduction

Feature:

- Clear lens
- Package in tape and reel
- Compact 0603 package
- Viewing angle: 140° typ.
- Height profile: 0.6mm

Application:

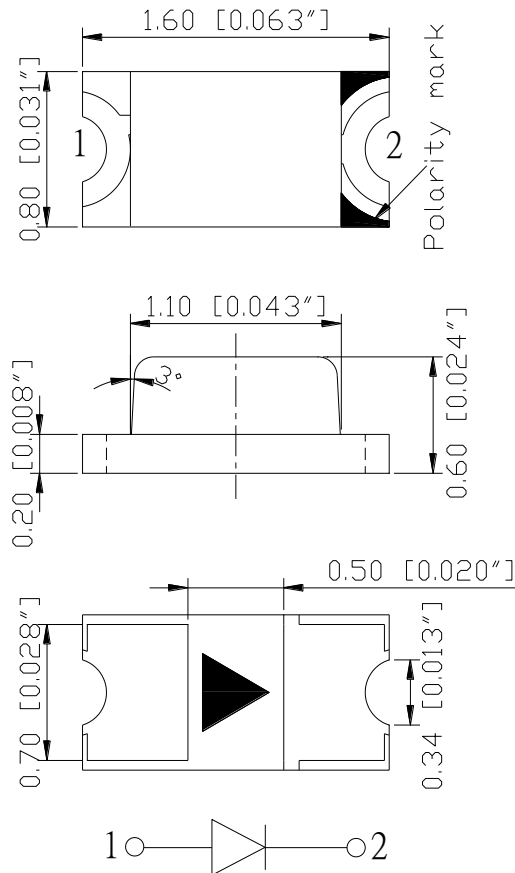
- Status indication

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.
QBLP601-IB5-S2897	Blue	5	2.6	2.8	470	475	480	470	41	80

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	84	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	2.4	2.6	V
B	2.6	2.8	

Luminous Intensity I_V @ I_F=5mA

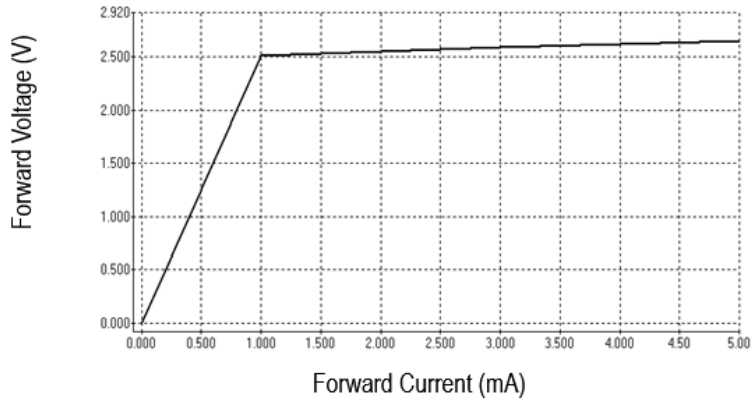
Bin	Min.	Max.	Unit
E	41	52	mcd
F	52	65	
G	65	82	
H	82	103	
I	103	129	

Dominant Wavelength λ_D @ I_F=5mA

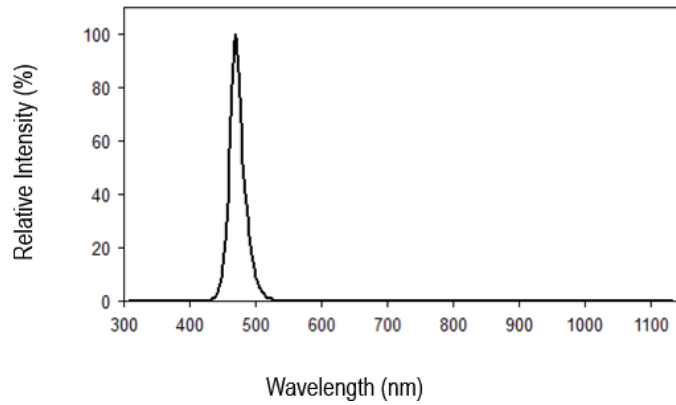
Bin	Min.	Max.	Unit
I	470	472.5	nm
J	472.5	475	
K	475	477.5	
L	477.5	480	

Characteristic Curves

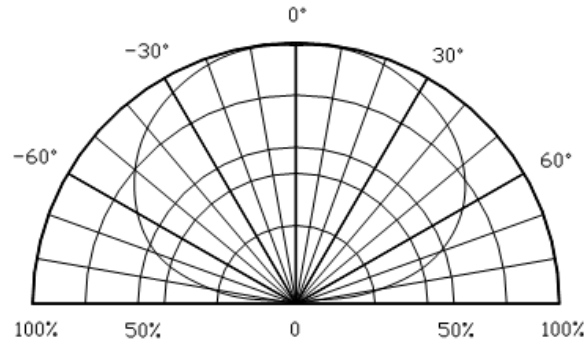
Forward Current vs. Forward Voltage



Relative Intensity vs. Wavelength

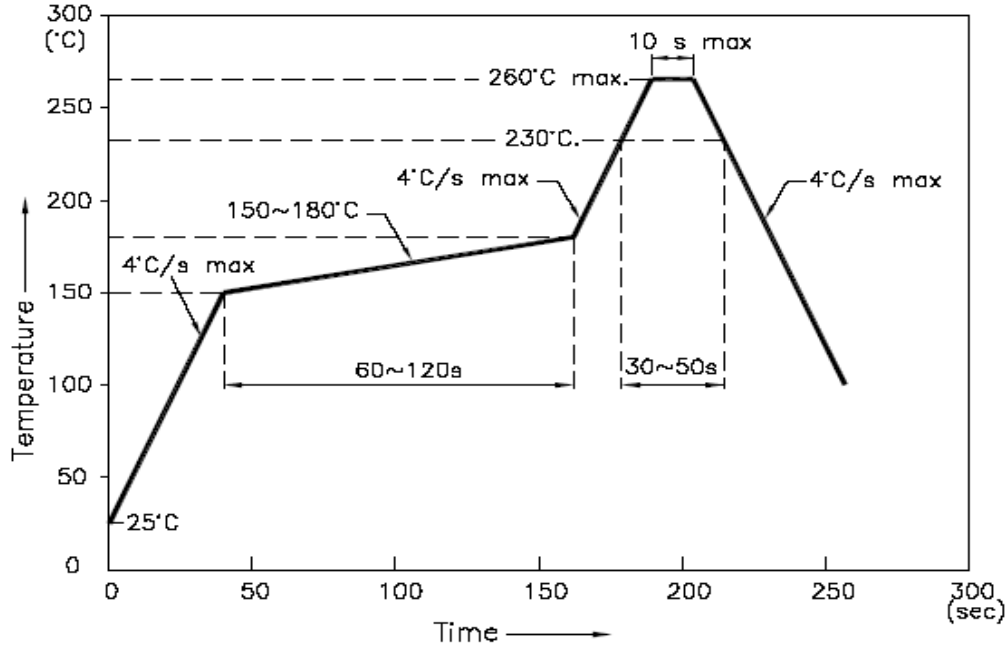


Directive Characteristics

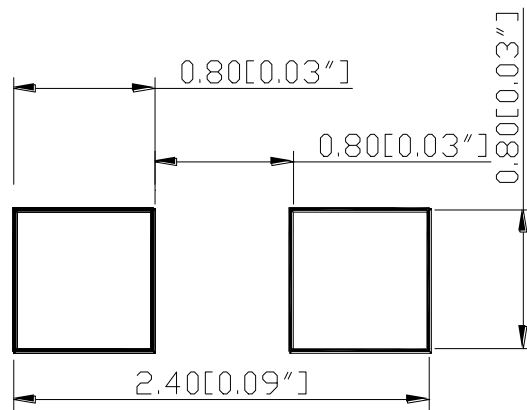


Solder Profile & Footprint

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



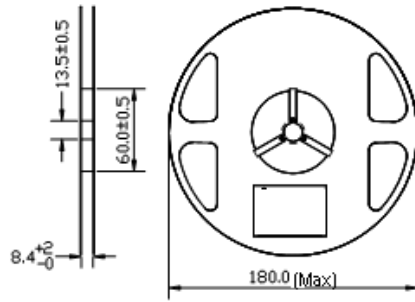
Recommended Pad Layout



Units: mm

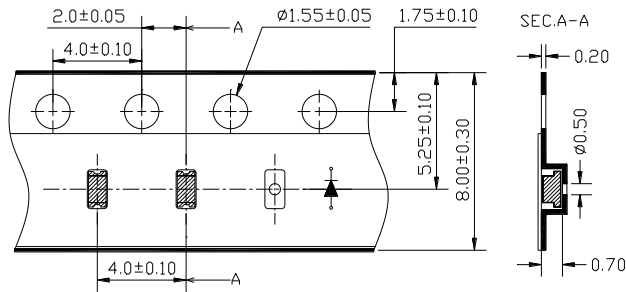
Packing

Reel Dimension:



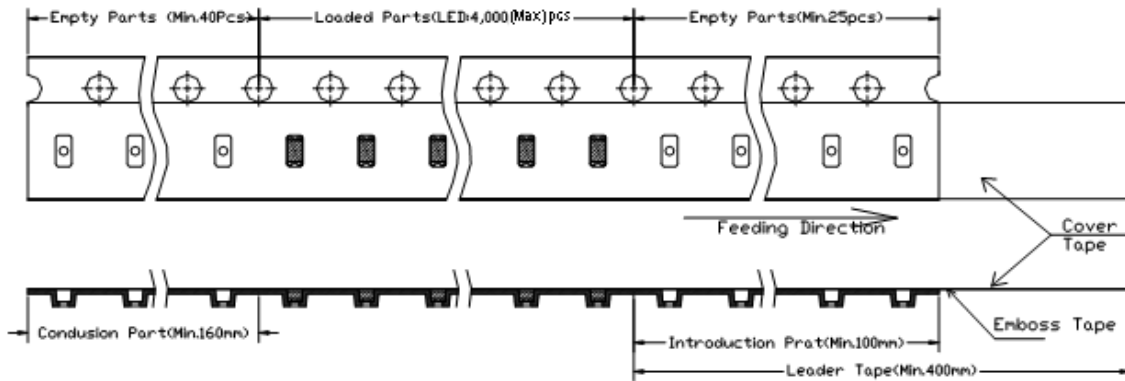
(Unit: mm)

Tape Dimension:

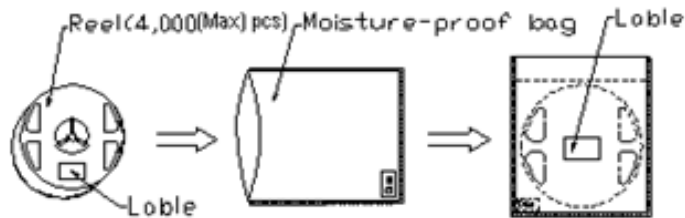


(Unit: mm)

Arrangement of Tape:



Packaging Specifications:



Labeling



Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

Vf: _____

Iv: _____

WI: _____

Date: _____

Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP601-IB5-S2897	Iv=80mcd typ., @ If=5mA, λD=470nm to 480nm	4,000 units



Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-IB5-S2897	V1.0	10/14/2025

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.

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