QT-Brightek Chip LED Series

0603 SMD Chip LED

Part No.: QBLP601-IBA-2897

A: 10mA
S2897: Ultra High Bright

Table of Contents:

Introduction

Feature:

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

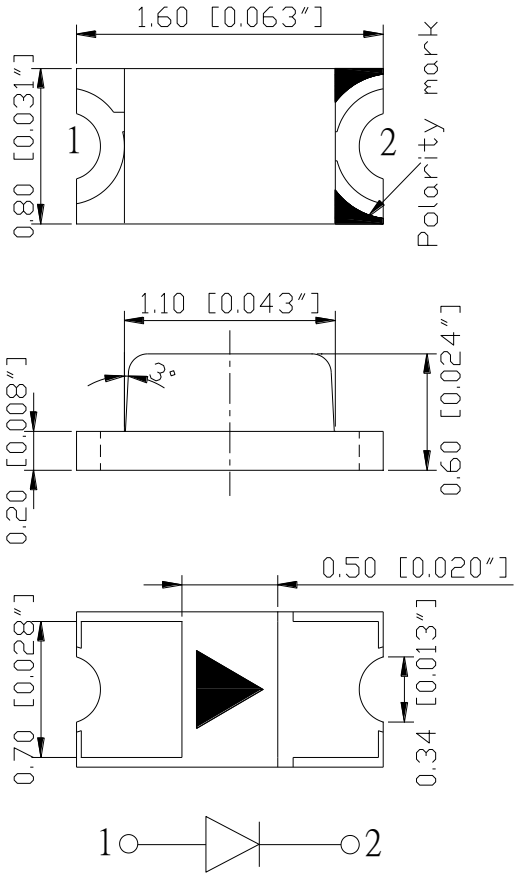
Application:

- 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-IBA-S2897	Blue	10	2.8	3.1	465	470	475	468	59	115

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)**
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=10mA

Bin	Min.	Max.	Unit
e	2.5	2.8	V
f	2.8	3.1	

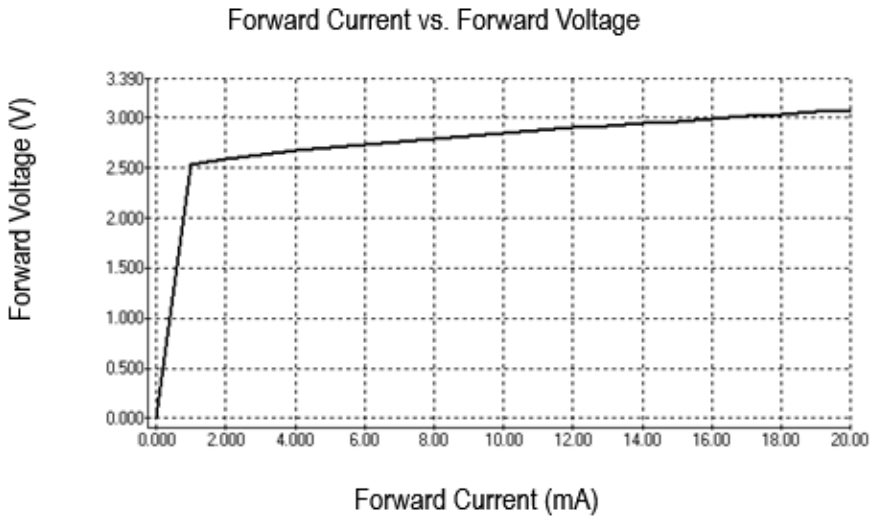
Luminous Intensity I_V @ I_F=10mA

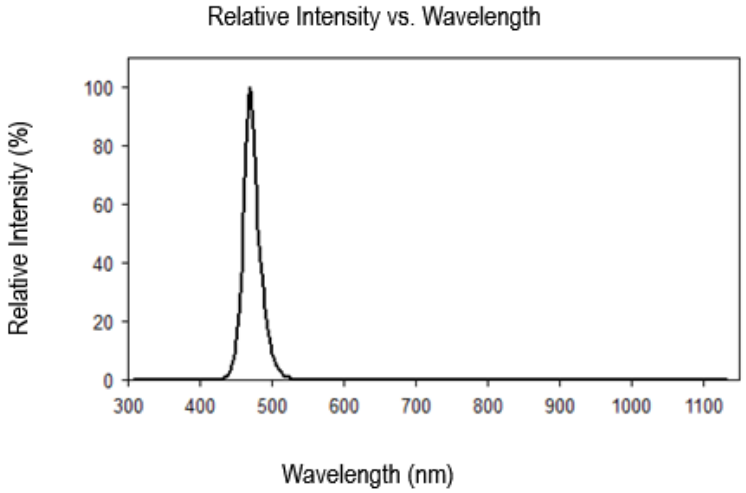
Bin	Min.	Max.	Unit
G	59	74.3	mcd
H	74.3	94.4	
I	94.4	118	
J	118	147.5	
K	147.5	189	

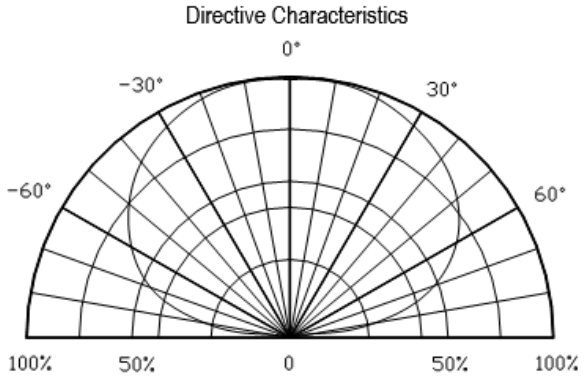
Dominant Wavelength λ_D @ I_F=10mA

Bin	Min.	Max.	Unit
G	465	467.5	nm
H	467.5	470	
I	470	472.5	
J	472.5	475	

Characteristic Curves

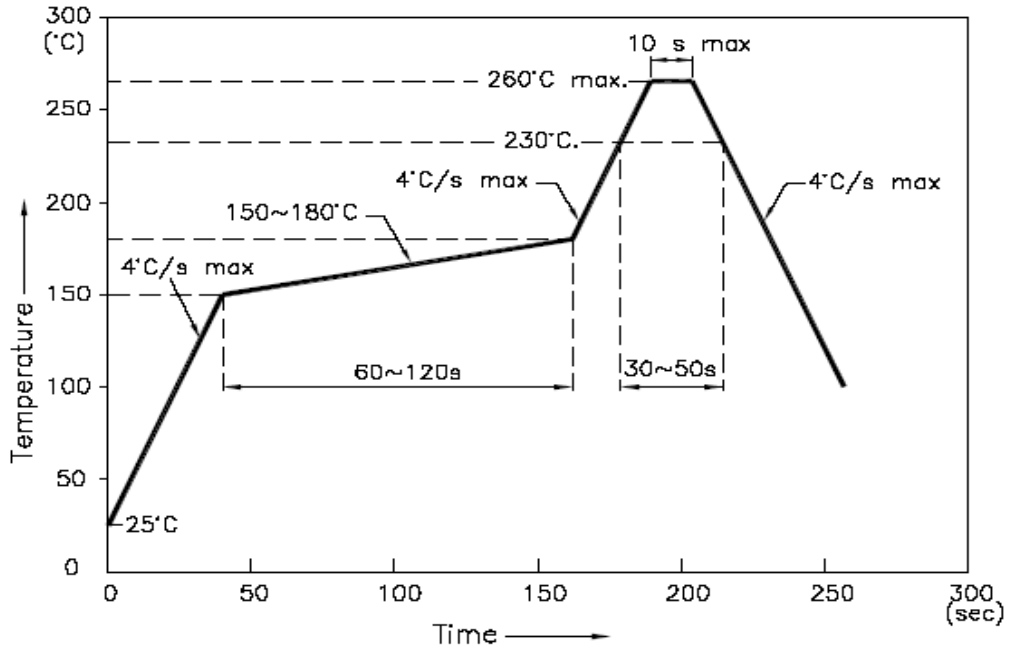




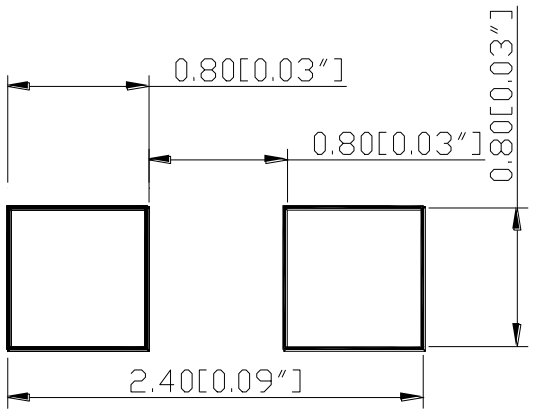


Solder Profile & Footprint

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



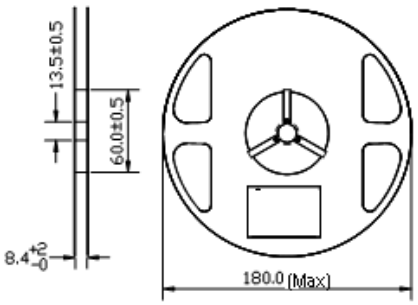
Recommended Pad Layout



Units: mm

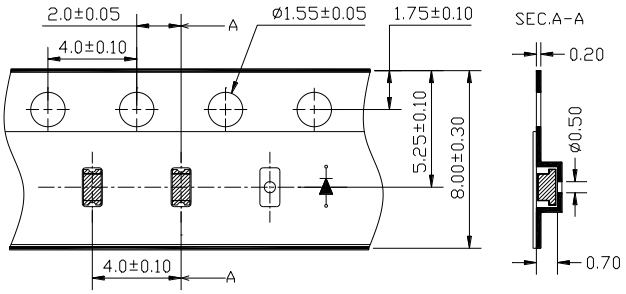
Packing

Reel Dimension:



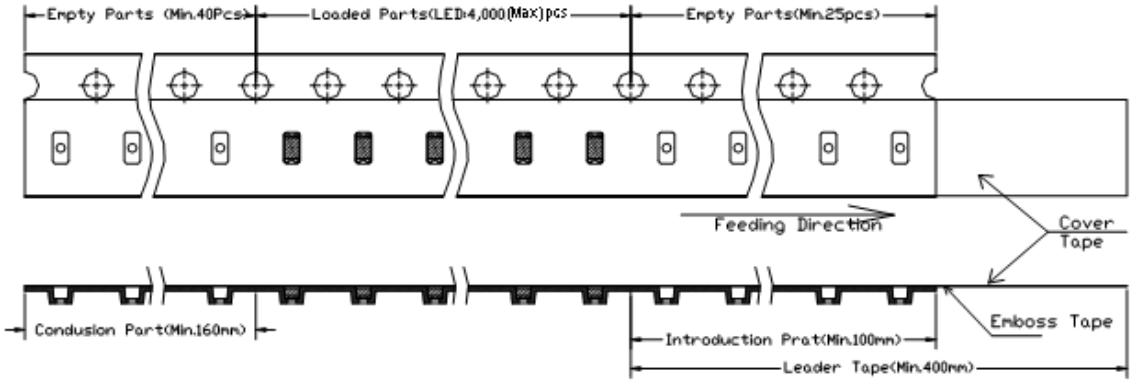
(Unit: mm)

Tape Dimension:

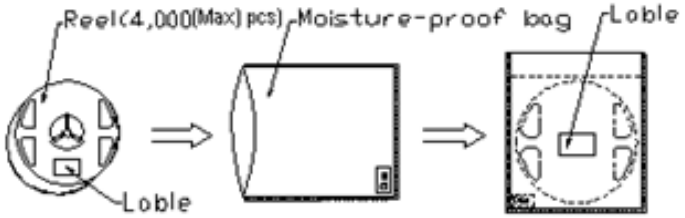


(Unit: mm)

Arrangement of Tape:



Packaging Specifications:



Labeling

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP601-IBA-S2897	Iv=115mcd typ., @ I_F=10mA, λ_D=465nm to 475nm	4,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-IBA-S2897	V1.0	10/29/2025

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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.