QT-Brightek Chip LED Series

SMD 0603 Green LED

Part No.: QBLP601-AG1-2897

2897: High Bright

Table of Contents:

Introduction

Feature:

- Water clear lens
- Color: Green
- Package in tape and reel
- 0603 LED package
- Viewing angle: 140 deg typ.
- Height profile: 0.6mm

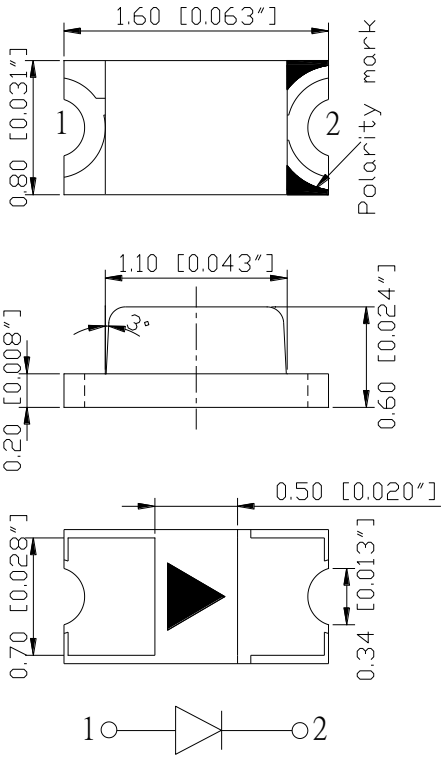
Application:

- Status indication
- Back lighting application

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-AG1-2897	Green	20	2.0	2.5	566	572	575	574	40	65

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	75	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=20mA

Bin	Min.	Max.	Unit
b	1.6	1.9	V
c	1.9	2.2	
d	2.2	2.5	

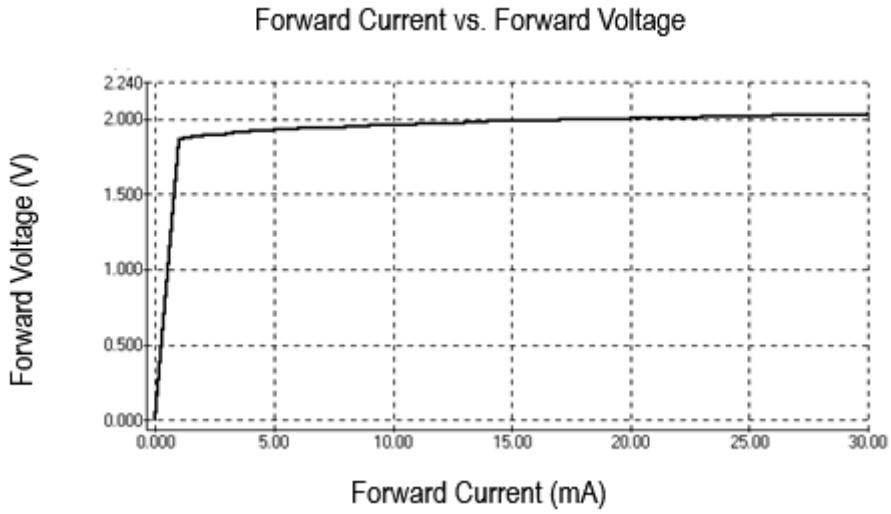
Luminous Intensity I_V @ I_F=20mA

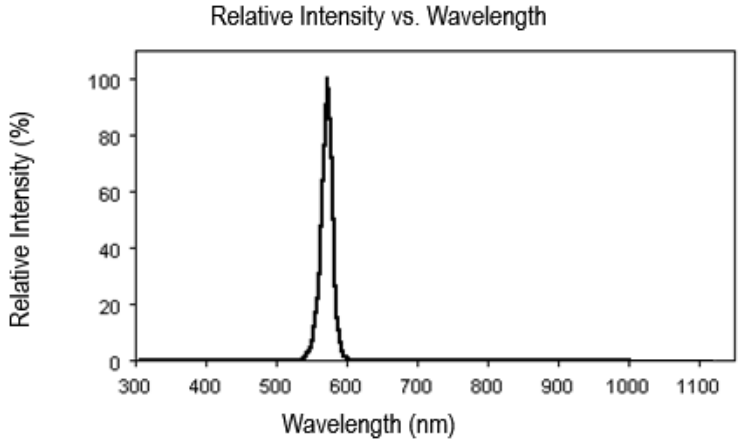
Bin	Min.	Max.	Unit
F	40	50	mcd
G	50	63	
H	63	80	
I	80	100	

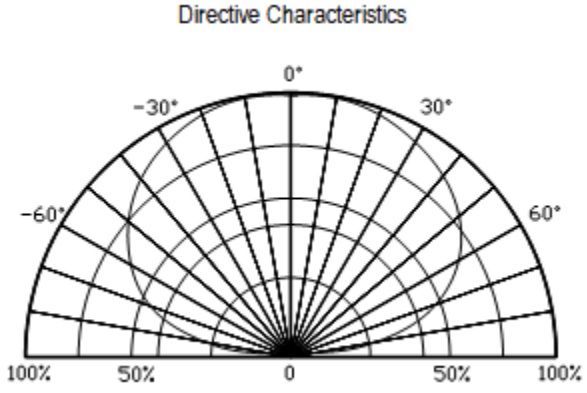
Dominant Wavelength λ_D @ I_F=20mA

Bin	Min.	Max.	Unit
H	566	569	nm
I	569	572	
J	572	575	

Characteristic Curves

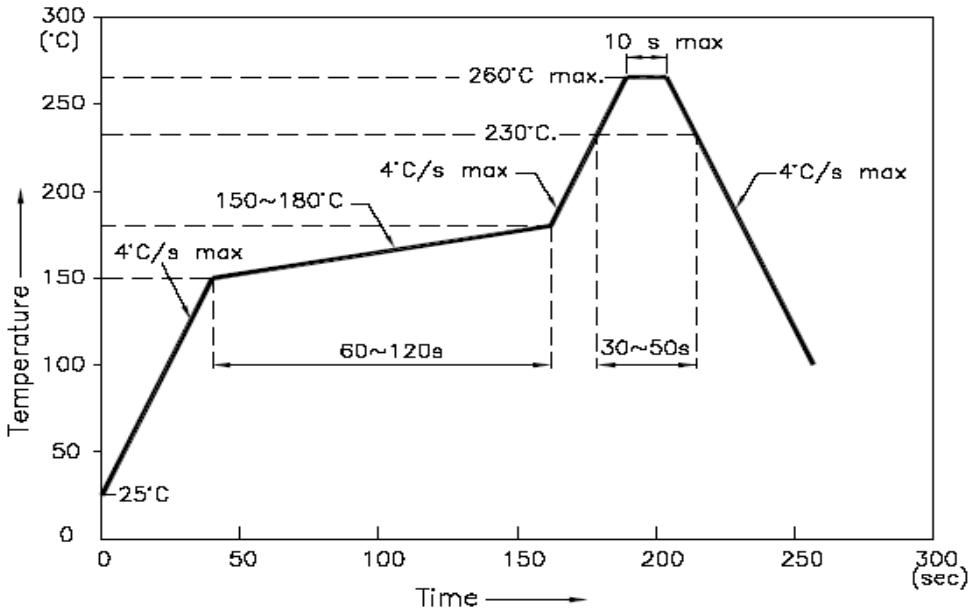




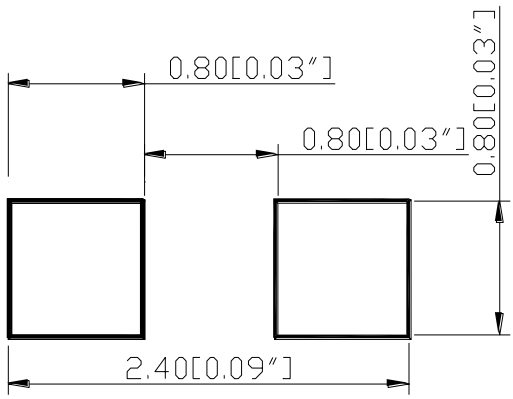


Solder Profile & Footprint

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



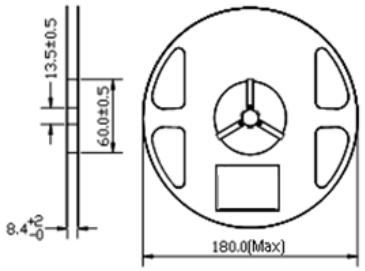
Recommended Pad Layout



Units: mm

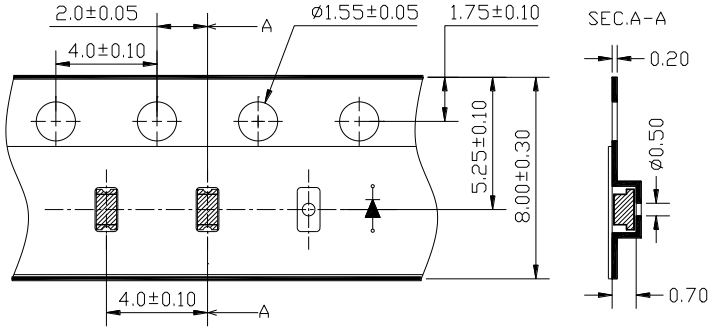
Packing

Reel Dimension:



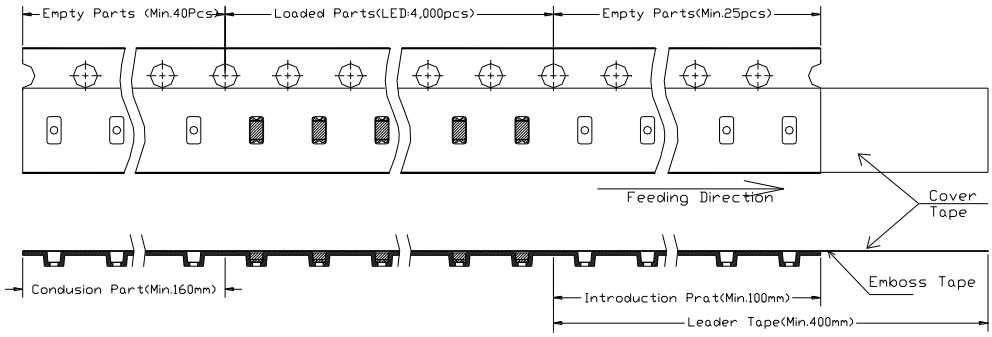
Unit: mm

Tape Dimension:

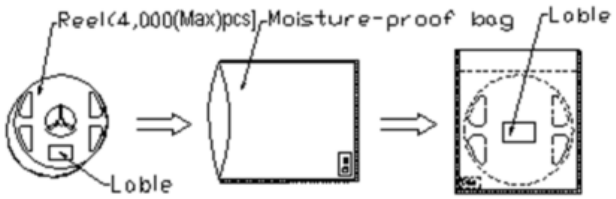


Unit: mm

Arrangement of Tape:



Packaging Specifications:



Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP601-AG1-2897	Iv=65mcd typ. @ I_F=20mA / Color=566 to 575nm	4,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-AG1-2897	V1.0	10/28/2025

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