

QT-Brightek Chip LED Series

SMD 1205 LED

Part No.: QBLP655R-IB5-S2897

655R: Reverse Mount

5mA

S2897: Ultra High Bright

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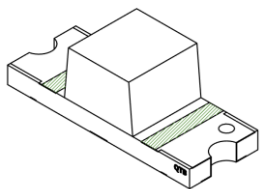
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Introduction

Feature:

- Clear lens
- Package in tape and reel
- Ultra bright blue
- Viewing angle: 140 degrees typ.
- Reverse mount
- Height profile: 1.1mm



Application:

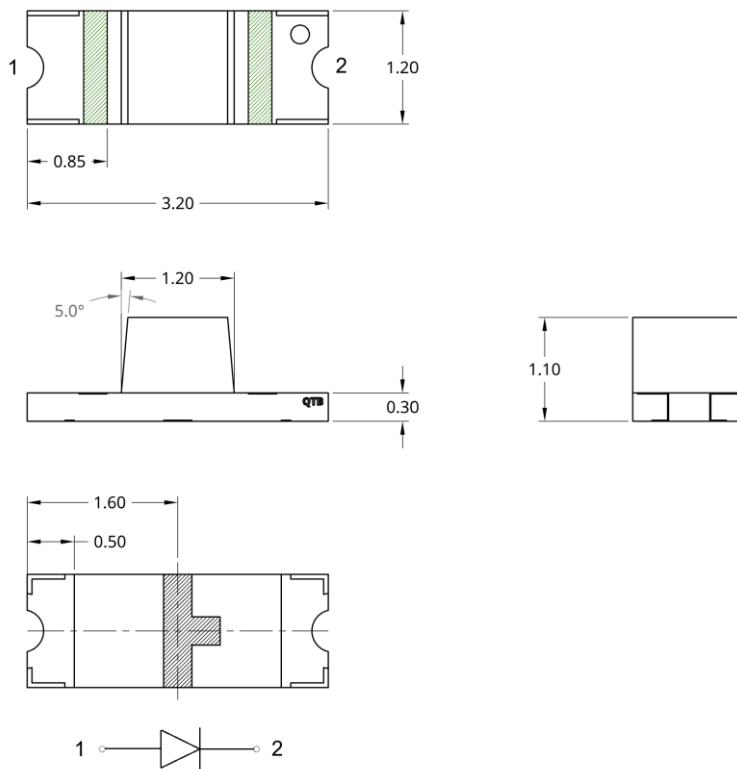
- Status indication
- Back lighting application

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.
QBLP655R-IB5-S2897	Blue	5	2.6	3.1	470	475	480	470	41	72

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	93	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
e	2.5	2.8	V
f	2.8	3.1	

Luminous Intensity I_v @ I_F=5mA

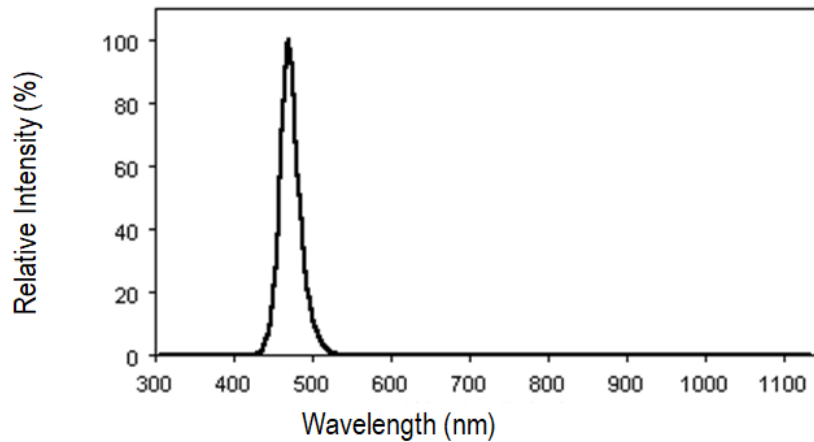
Bin	Min.	Max.	Unit
E	41	52	mcd
F	52	65	
G	65	82	
H	82	103	
I	103	129	

Dominant Wavelength λ_D @ I_F=5mA

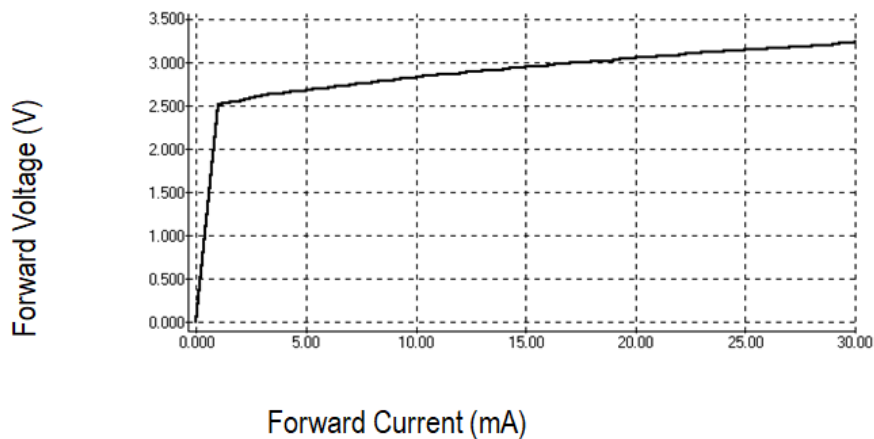
Bin	Min.	Max.	Unit
I	470	472.5	nm
J	472.5	475	
K	475	477.5	
L	477.5	480	

Characteristic Curves

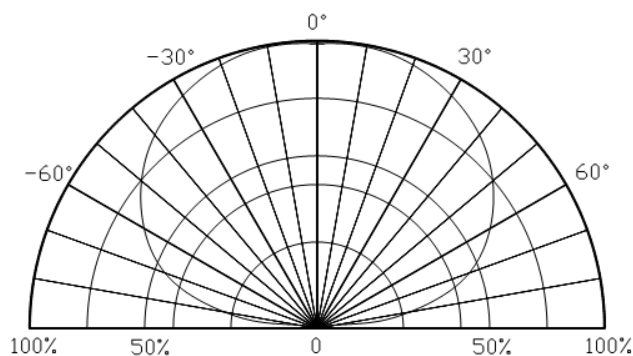
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage

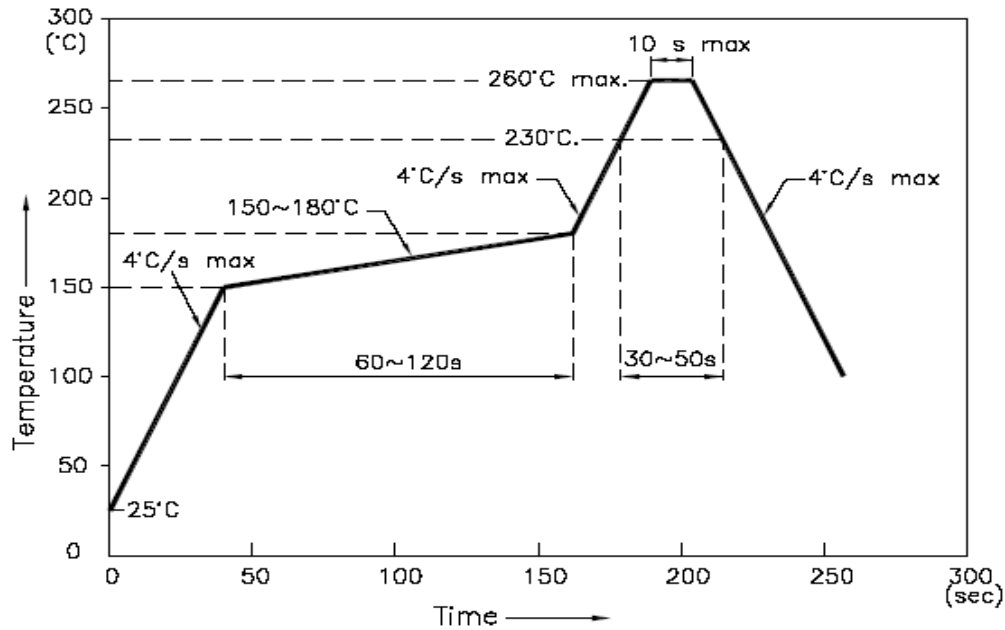


Directive Characteristics

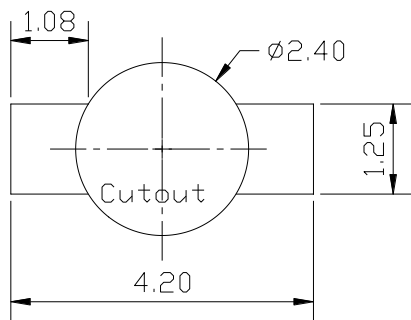


Solder Profile & Footprint

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



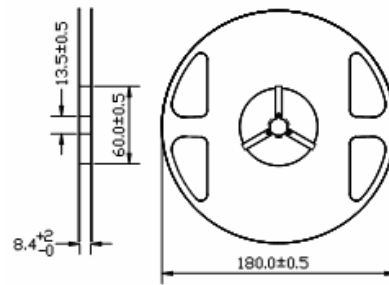
Recommended Pad Layout



Units: mm

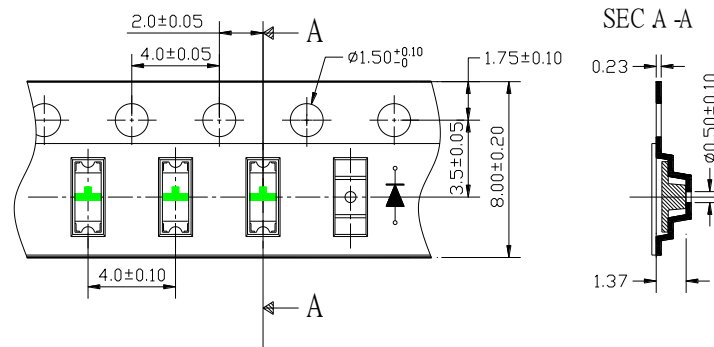
Packing

Reel Dimension:



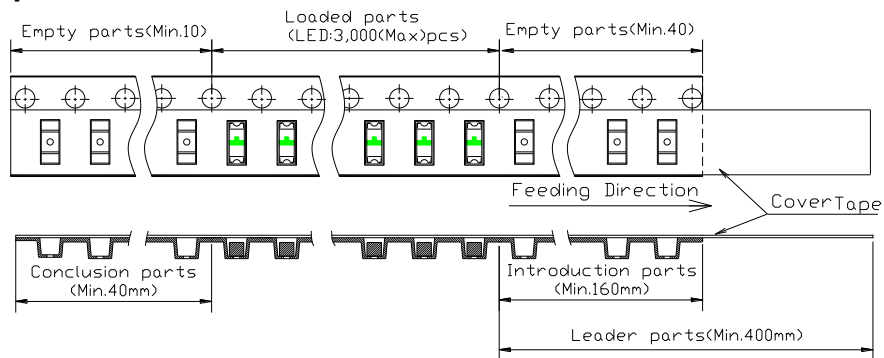
Unit: mm

Tape Dimension:

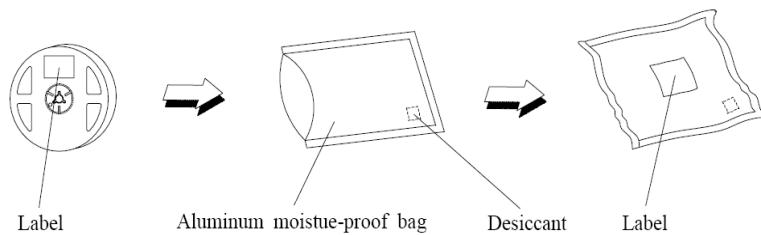


Unit: mm

Arrangement of Tape:



Packaging Specifications:



Labeling



QT-Brightek





Part No:

Customer P/N:

Item:

Q'ty:

Vf:

Iv:

WI:

Date:

Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP655R-IB5-S2897	Iv=72mcd typ. @ IF=5mA / λD=470-480nm	3,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP655R-IB5-S2897	V1.0	02/02/2026

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.