

QT-Brightek Chip LED Series

SMD 1205 LED

Part No.: QBLP655R-OA-2897

655R: Reverse Mount

A: 10mA

2897: High Bright

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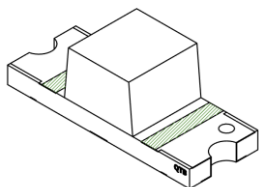
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Introduction

Feature:

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



Application:

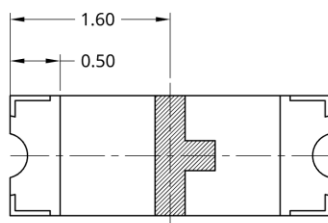
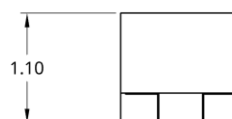
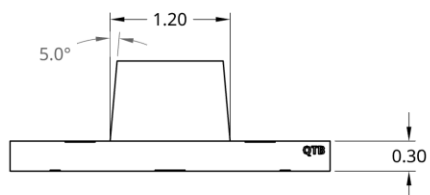
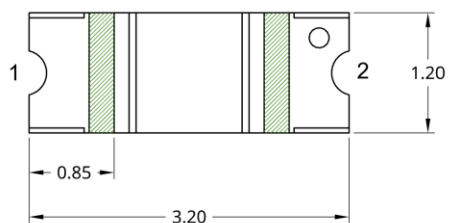
- Status indication
- Back lighting application

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-OA-2897	Orange	10	2.0	2.4	600	605	610	610	116	230

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)**
AllnGaP	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=10mA

Bin	Min.	Max.	Unit
□	1.7	2.4	V

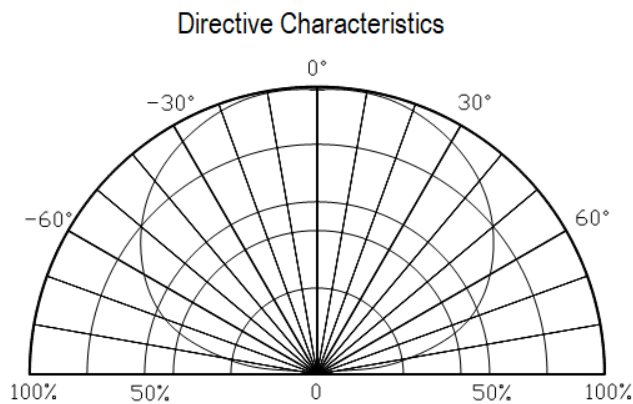
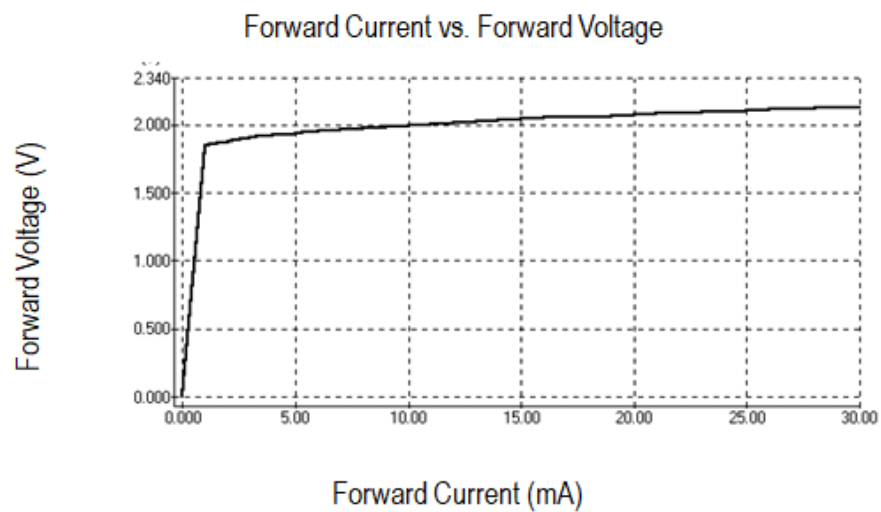
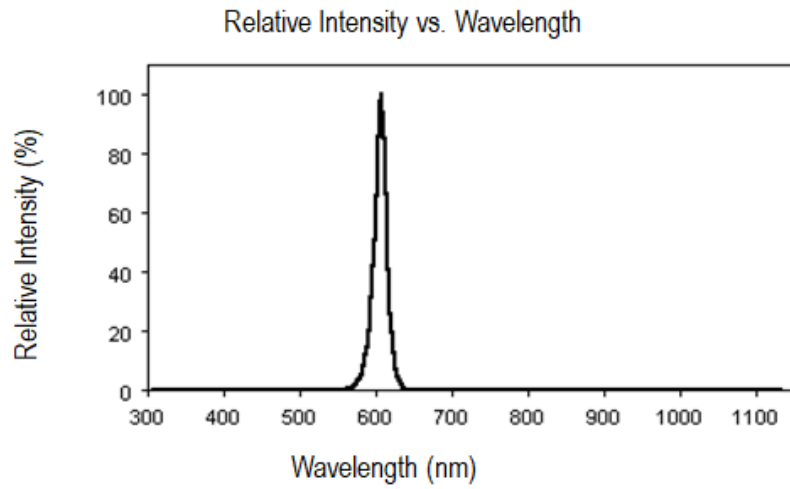
Luminous Intensity I_v @ I_F=10mA

Bin	Min.	Max.	Unit
2K	116	145	mcd
2L	145	186	
2M	186	233	
2N	233	291	
2O	291	372	

Dominant Wavelength λ_D @ I_F=10mA

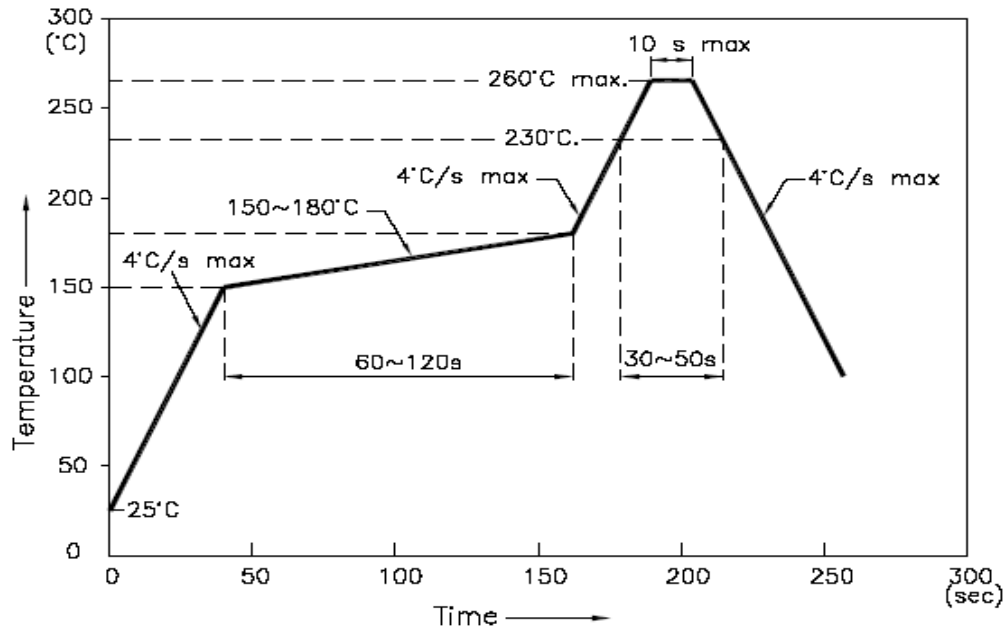
Bin	Min.	Max.	Unit
p	600	605	nm
q	605	610	

Characteristic Curves

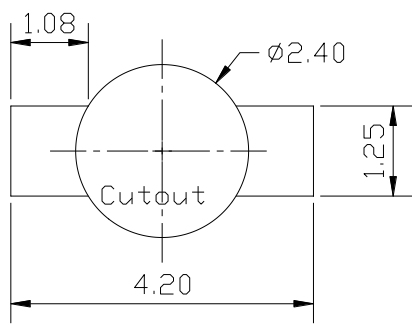


Solder Profile & Footprint

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



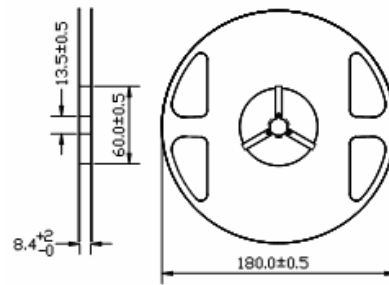
Recommended Pad Layout



Units: mm

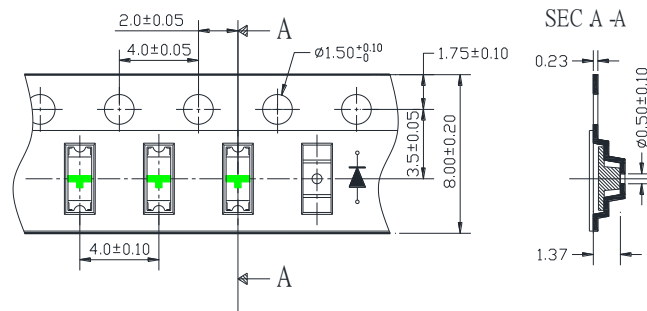
Packing

Reel Dimension:



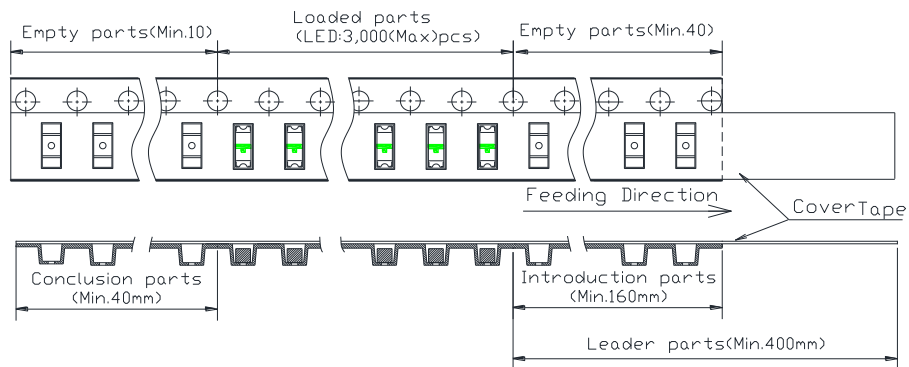
Unit: mm

Tape Dimension:

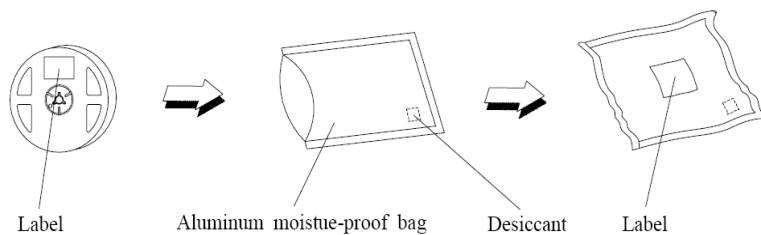


Unit: mm

Arrangement of Tape:



Packaging Specifications:



Labeling



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-OA-2897	Iv=230mcd typ. @ I _F =10mA / λ _D =600-610nm	3,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP655R-OA-2897	V1.0	02/12/2026

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.