

QT-Brightek Chip LED Series

SMD 1205 LED

Part No.: QBLP655R-Y3-2897

**655R: Reverse Mount
3mA
2897: High Bright**

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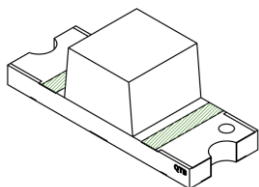
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Introduction

Feature:

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



Application:

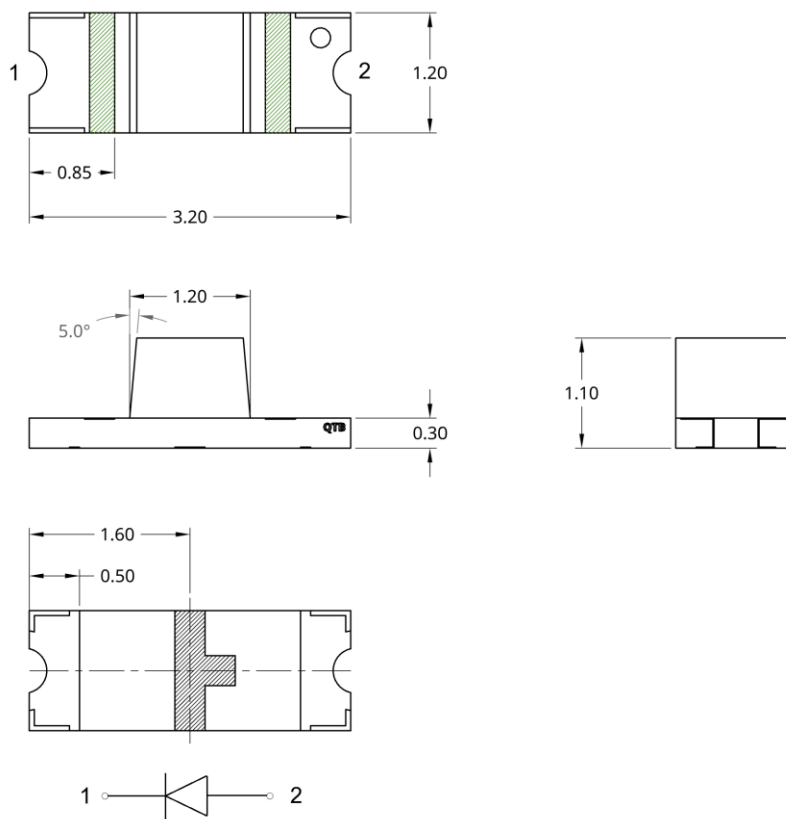
- Status indication
- Back lighting application

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-Y3-2897	Yellow	3	1.8	2.2	585	587	595	592	32	60

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	66	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=3mA

Bin	Min.	Max.	Unit
□	1.6	2.2	V

Luminous Intensity I_V @ I_F=3mA

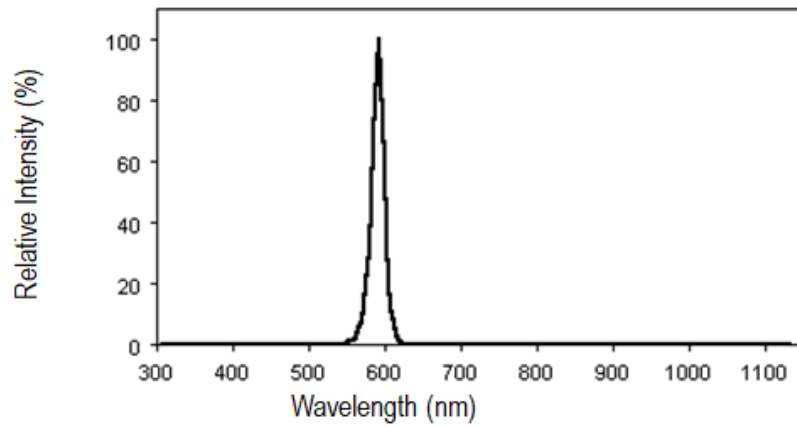
Bin	Min.	Max.	Unit
E	32	40	mcd
F	40	50	
G	50	63	
H	63	80	
I	80	100	

Dominant Wavelength λ_D @ I_F=3mA

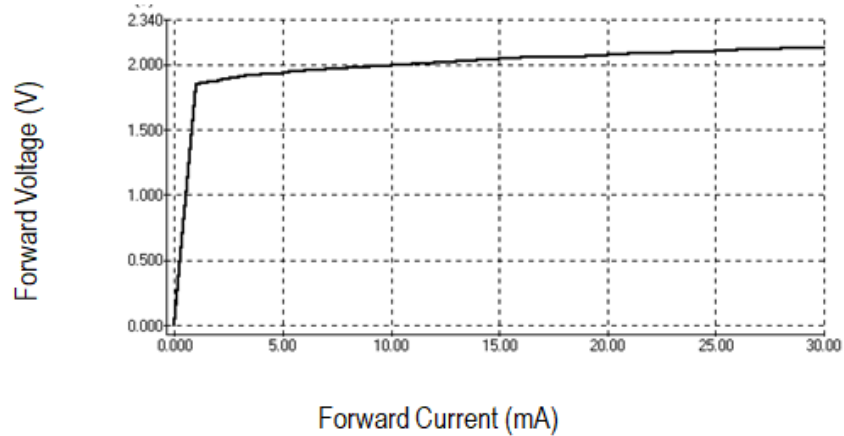
Bin	Min.	Max.	Unit
m	585	590	nm
n	590	595	

Characteristic Curves

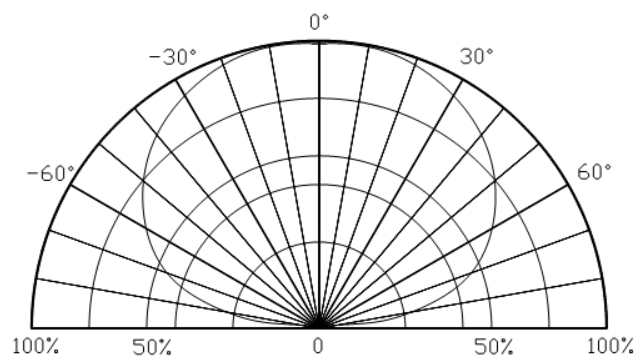
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage

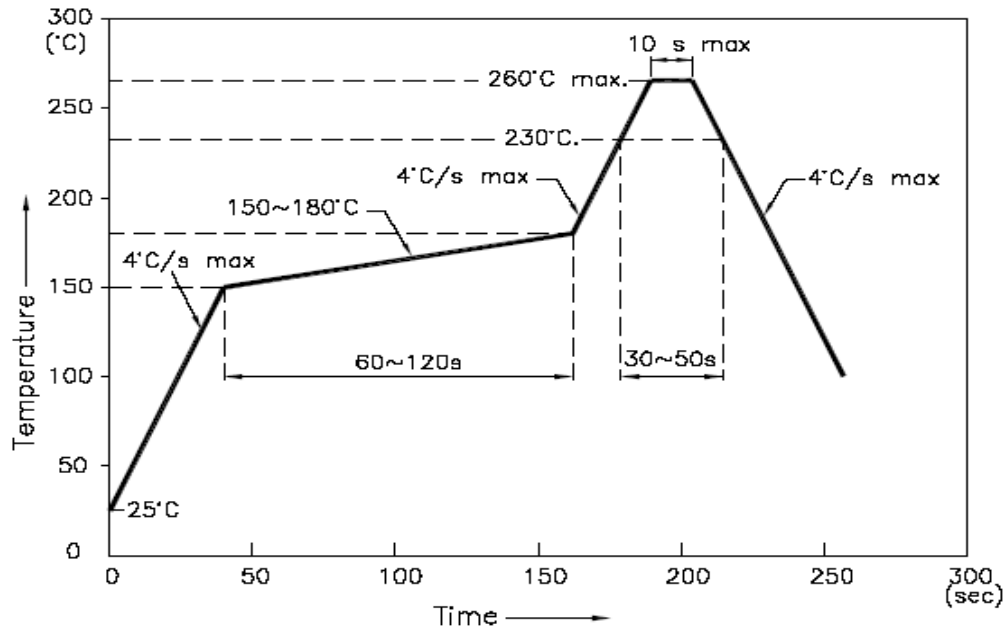


Directive Characteristics

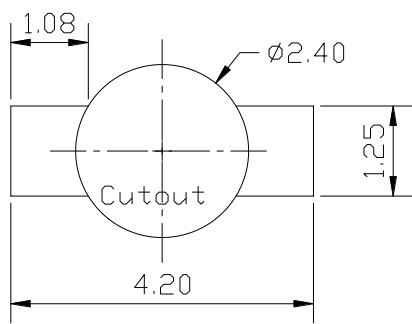


Solder Profile & Footprint

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



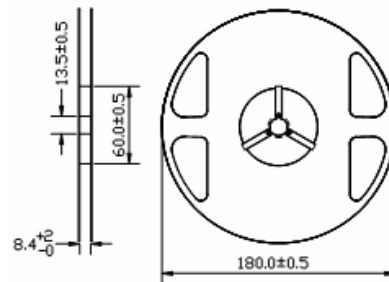
Recommended Pad Layout



Units: mm

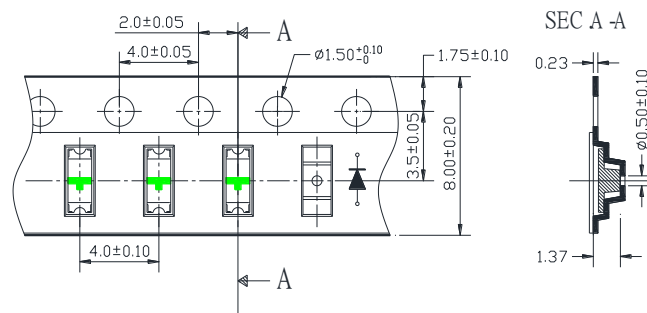
Packing

Reel Dimension:



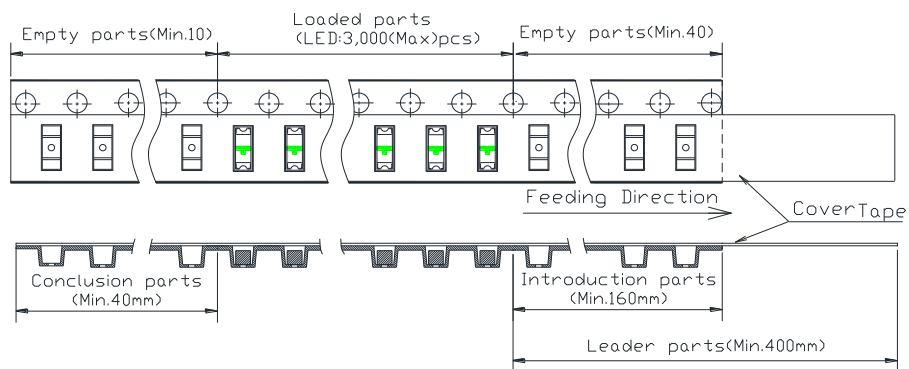
Unit: mm

Tape Dimension:

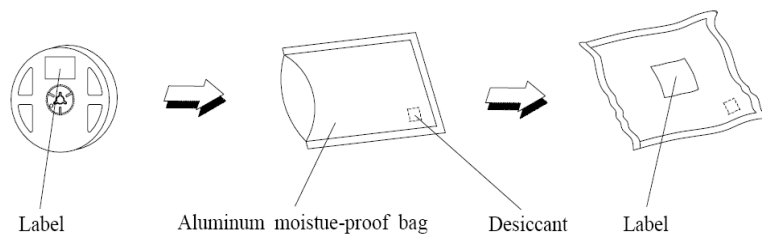


Unit: mm

Arrangement of Tape:



Packaging Specifications:





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-Y3-2897	Iv=60mcd typ. @ I _F =3mA / λ _D =585-595nm	3,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP655R-Y3-2897	V1.0	03/03/2026

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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.