

QT-Brightek Chip LED Series

SMD 1205 LED

Part No.: QBLP655R-IG3

**655R: Reverse Mount
3mA**

Product: QBLP655R-IG3	Date: March 16, 2026	Page 1 of 9
	Version# 1.0	

Table of Contents:

Introduction3

Electrical / Optical Characteristic (Ta=25 °C)4

Absolute Maximum Rating4

Characteristic Curves.....5

Solder Profile & Footprint.....6

Packing7

Labeling8

Ordering Information8

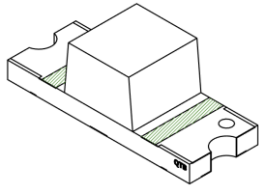
Revision History9

Disclaimer9

Introduction

Feature:

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



Application:

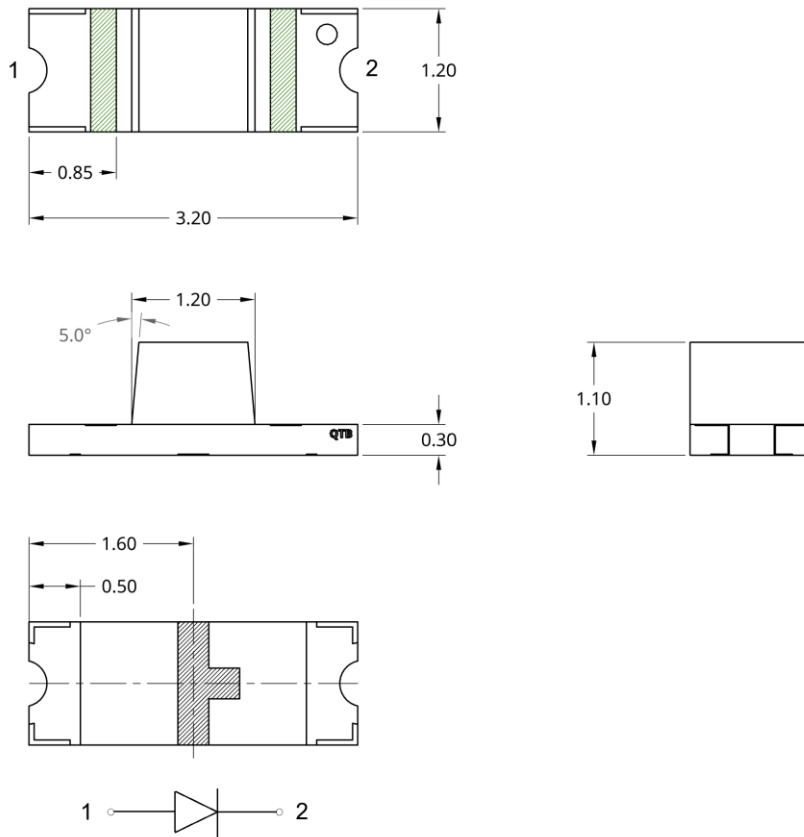
- Status indication
- Back lighting application

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-IG3	Green	3	2.7	3.1	525	530	535	520	63	110

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=3mA

Bin	Min.	Max.	Unit
d	2.2	2.5	V
e	2.5	2.8	
f	2.8	3.1	

Luminous Intensity I_V @ I_F=3mA

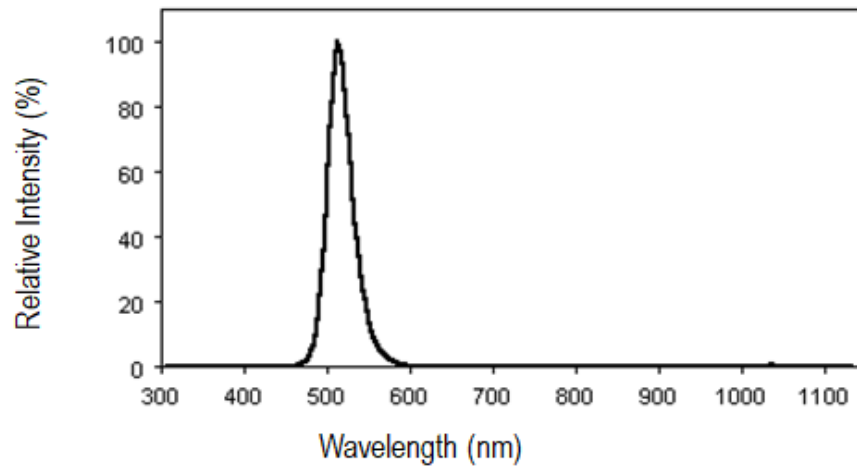
Bin	Min.	Max.	Unit
H	63	80	mcd
I	80	100	
J	100	125	
K	125	160	
L	160	200	

Dominant Wavelength λ_D @ I_F=3mA

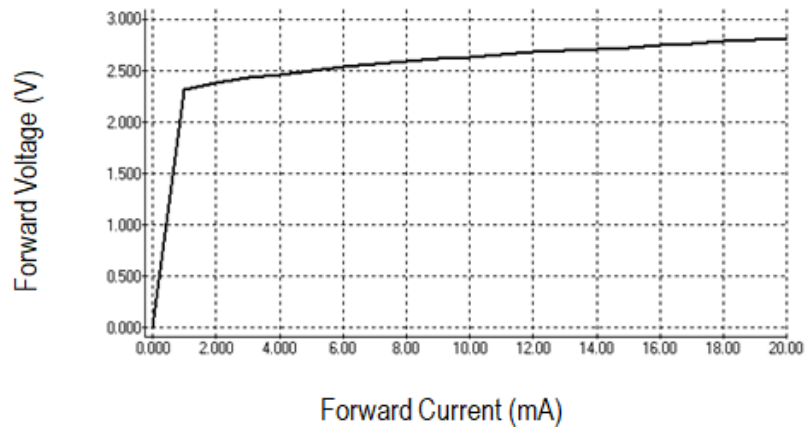
Bin	Min.	Max.	Unit
W	525	527.5	nm
X	527.5	530	
Y	530	532.5	
Z	532.5	535	

Characteristic Curves

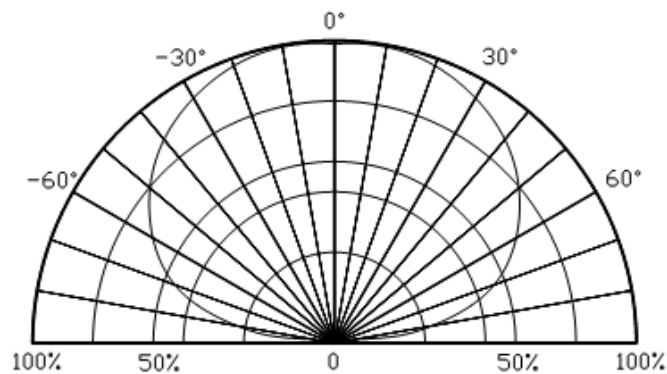
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage

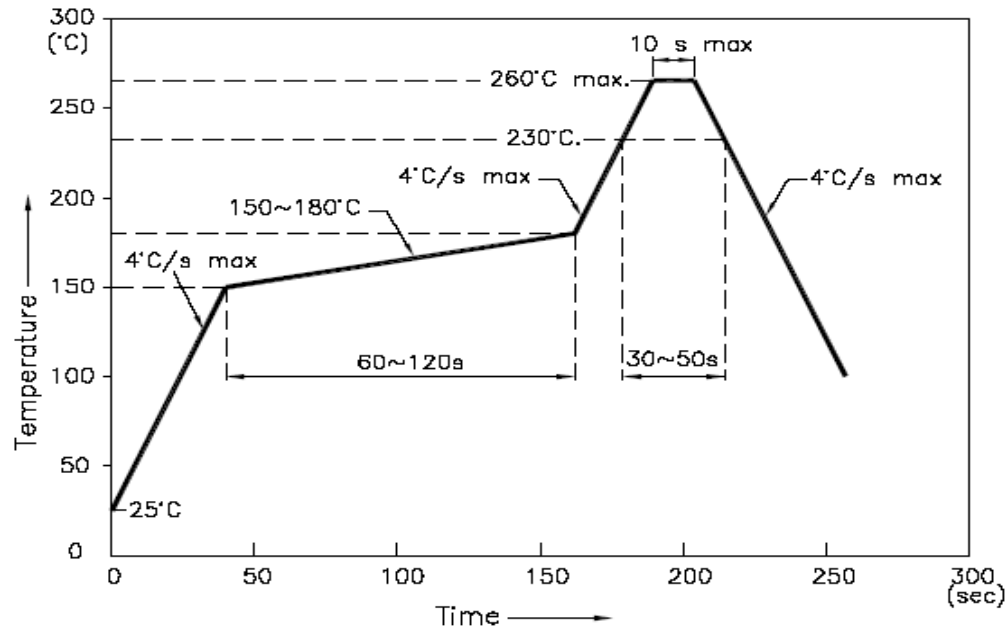


Directive Characteristics

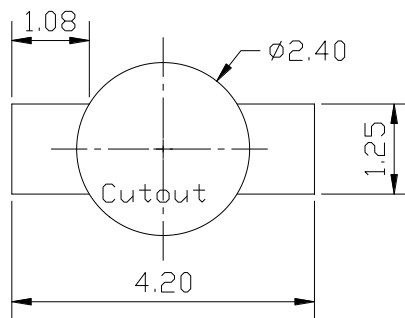


Solder Profile & Footprint

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



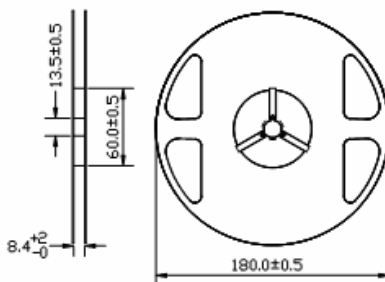
Recommended Pad Layout



Units: mm

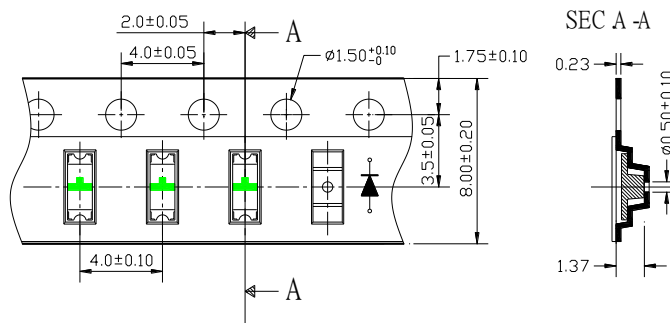
Packing

Reel Dimension:



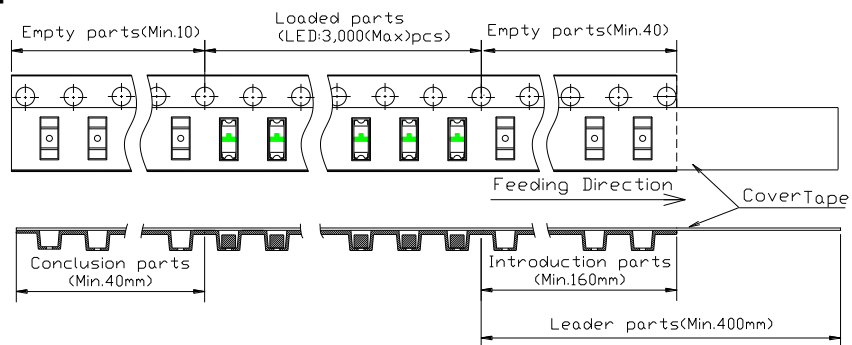
Unit: mm

Tape Dimension:

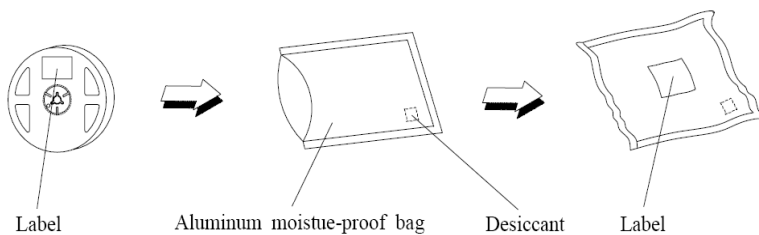


Unit: mm

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-IG3	Iv=110mcd typ. @ If=3mA / λD=525-535nm	3,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP655R-IG3	V1.0	3/16/2026

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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.