



1208 LED

# QT-Brightek Chip LED Series SMD 1208 Orange LED

Part No.: QBLP653-O5

5: 5mA

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## Introduction

#### **Feature:**

- Water clear lens
- Package in tap and reel
- Bright 1208 LED package
- AllnGaP technology
- Viewing angle: 15 deg typ.

#### **Description:**

This bright 1208 LED has a height profile of 2.5mm. With narrow viewing angle, LED produces high bright light output.

#### **Application:**

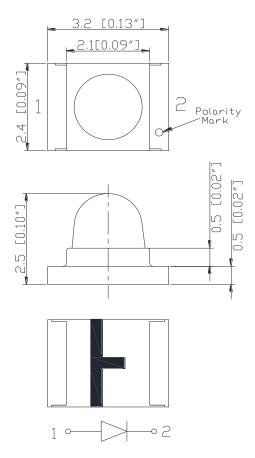
- Status indication
- Back lighting application

## **Certification & Compliance:**

- ISO9001
- **RoHS Compliant**



#### **Dimension:**



Units: mm / tolerance = +/-0.15mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color I <sub>F</sub> (r	I (m A)	V <sub>F</sub> (V)		-	λ <sub>D</sub> (nm)		I <sub>V</sub> (n	ncd)
		I <sub>F</sub> (mA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP653-O5	Orange	5	1.9	2.3	600	605	610	400	700

**Absolute Maximum Rating** 

Material	P <sub>d</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)*	V <sub>R</sub> (V)	T <sub>OP</sub> (°C)	T <sub>ST</sub> (°C)	T <sub>SOL</sub> (°C)**
AllnGaP	69	30	125	5	-40 ~ +80	-40 ~ +85	260

<sup>\*</sup>Duty 1/8 @ 1KHz

Forward Voltage V<sub>F</sub> @I<sub>F</sub>=5mA

Bin	Min.	Max.	Unit
	1.7	2.3	V

Luminous Intensity I<sub>V</sub> @ I<sub>F</sub>=5mA

Bin	Min.	Max.	Unit
Р	400	500	
Q	500	630	
R	630	800	mcd
S	800	1000	
Т	1000	1250	

Dominant Wavelength  $\lambda_D @ I_F = 5mA$ 

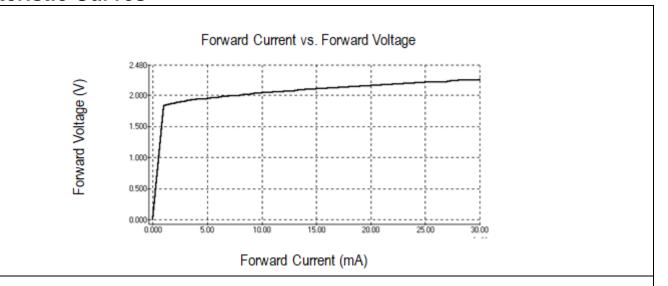
Bin	Min.	Max.	Unit
р	600	605	222
q	605	610	nm

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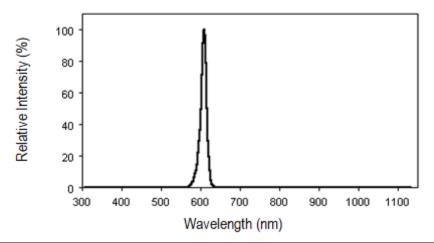
<sup>\*\*</sup>IR Reflow for no more than 10 sec @ 260 °C



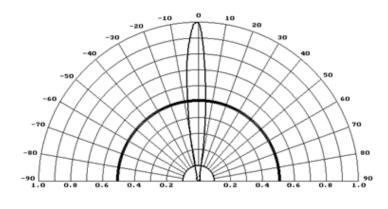
# **Characteristic Curves**







#### Directive Characteristics

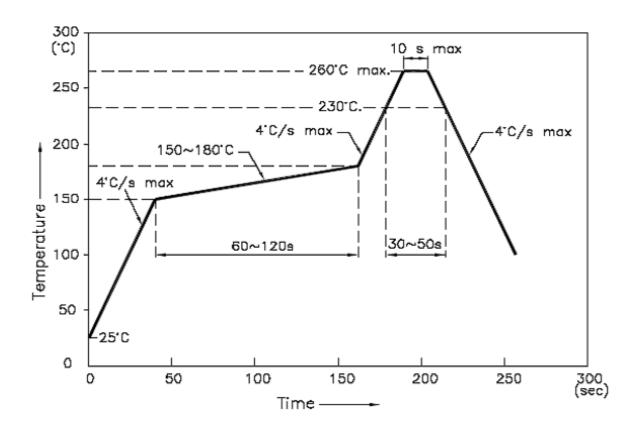


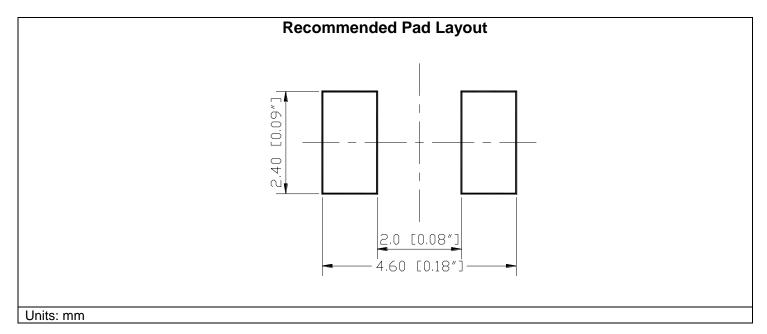
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# **Solder Profile & Footprint**

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





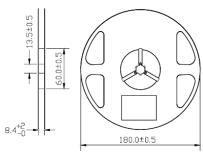
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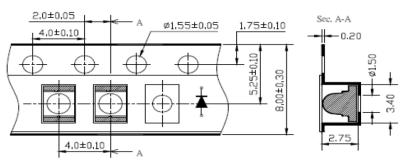
# **Packing**

#### **Reel Dimension:**



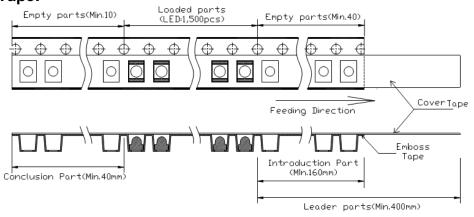
Unit: mm

## **Tape Dimension:**

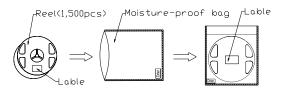


Unit: mm

## **Arrangement of Tape:**



# **Packaging Specification:**



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# Labeling

	<b>(%)</b>	QT-Brig	jhtek	
Part	No:			
<u>Cust</u>	omer	P/N:		
<u>ltem:</u>				
<u>Q'ty:</u>				
<b>∨f</b> :				
Iv:				
WI:				
<u>Date</u>	:	Madain	Chino	

# **Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP653-O5	QBLP653-O5	Iv=700mcd typ. / Color = 600nm to 610nm @ 5mA	1,500 units

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**Revision History** 

Description:	Revision #	Revision Date
New Release of QBLP653-O5	V1.0	03/07/2023

## **Disclaimer**

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- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 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.

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