

QT-Brightek Chip LED Series

SMD 1208 Yellow LED

Part No.: QBLP653-Y5-2897

5: 5mA

2897: High Brightness Version

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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:

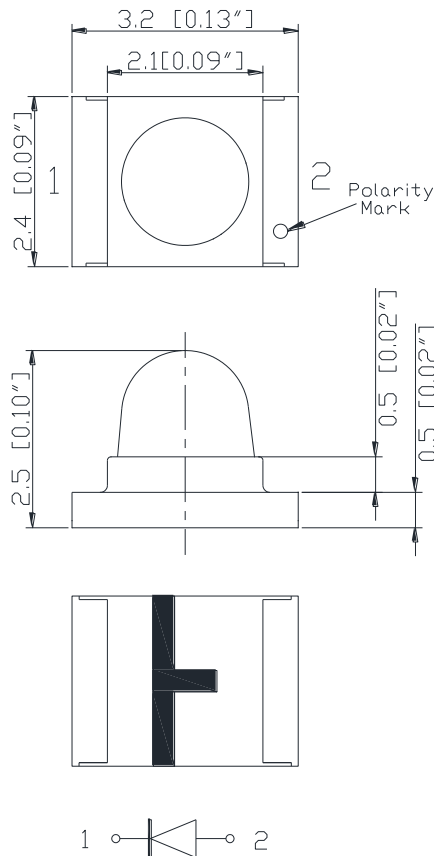
- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.15mm

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			I _V (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
QBLP653-Y5-2897	Yellow	5	2.0	2.3	585	590	595	1250	2400

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SO L} (°C)**
AllnGaP	69	30	125	5	-40 ~ +80	-40 ~ +85	260

*Duty 1/8 @ 1KHz

**IR Reflow for no more than 10 sec @ 260 °C

Forward Voltage V_F @ I_F=5mA

Bin	Min.	Max.	Unit
□	1.7	2.3	V

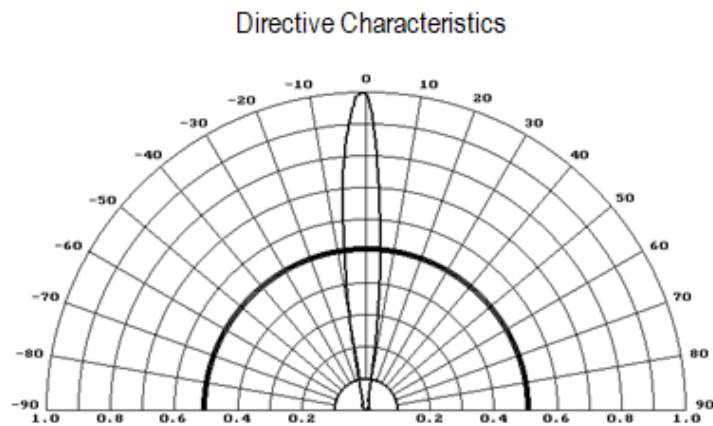
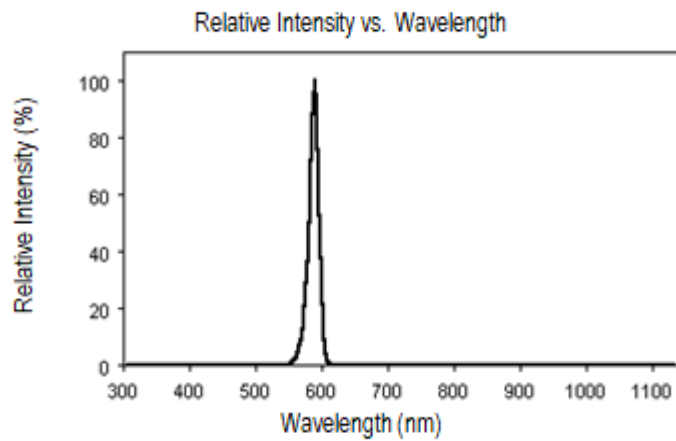
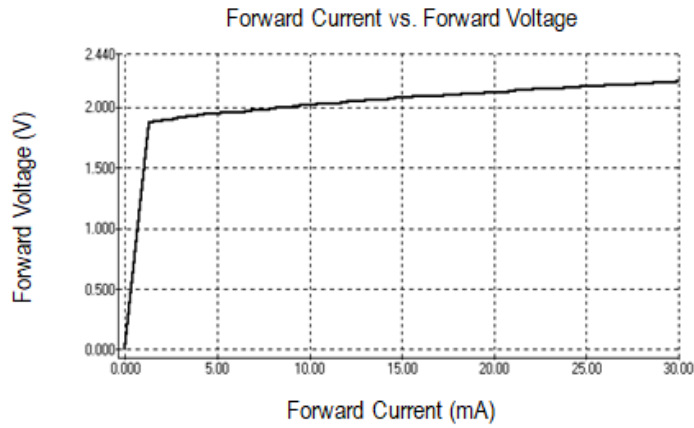
Luminous Intensity I_V @ I_F=5mA

Bin	Min.	Max.	Unit
U	1250	1600	mcd
V	1600	2000	
W	2000	2500	
X	2500	3200	
Y	3200	4000	

Dominant Wavelength λ_D @ I_F=5mA

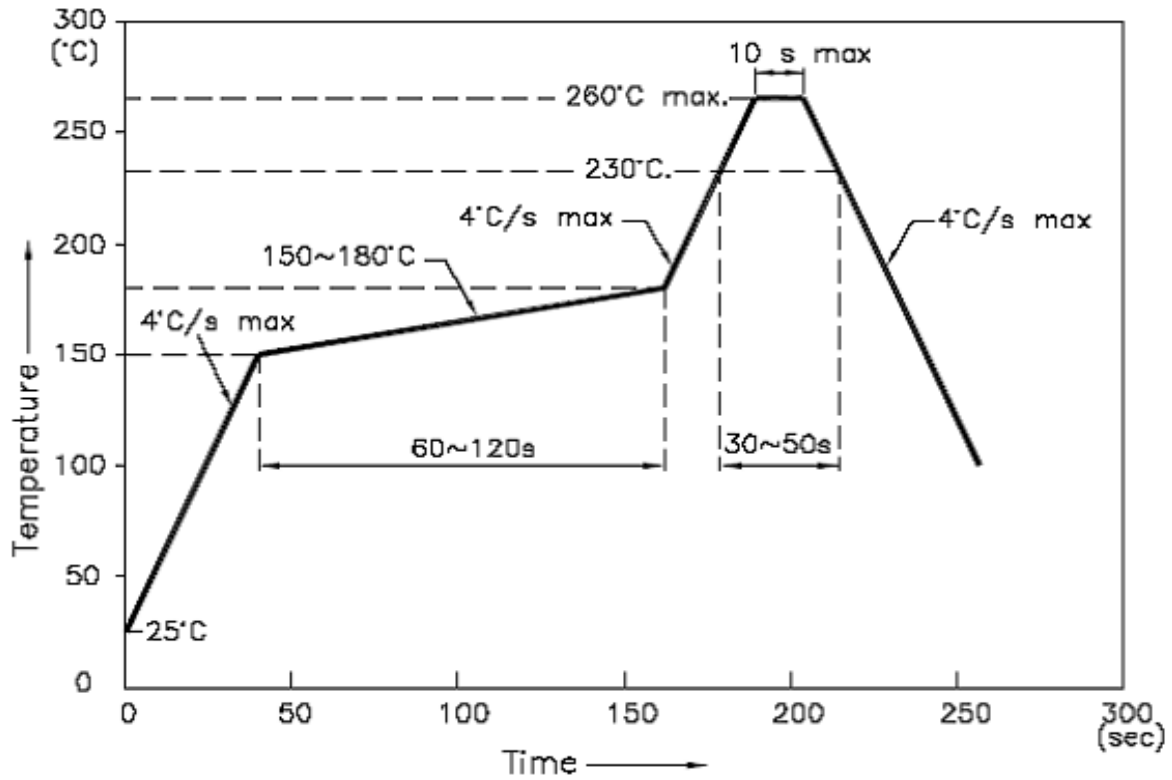
Bin	Min.	Max.	Unit
m	585	590	nm
n	590	595	

Characteristic Curves

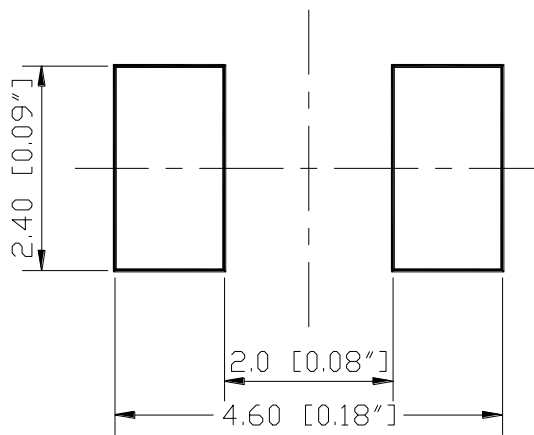


Solder Profile & Footprint

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



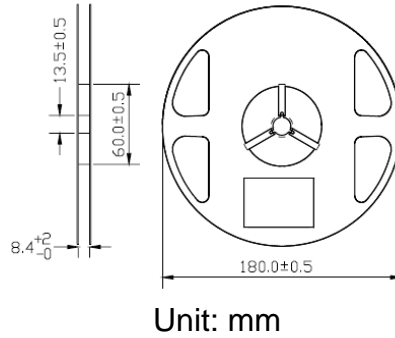
Recommended Pad Layout



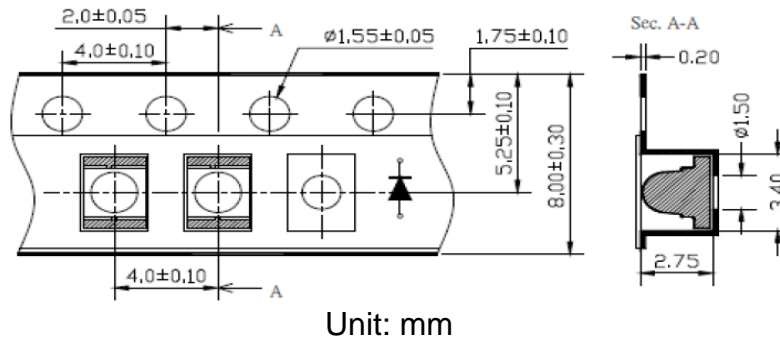
Units: mm

Packing

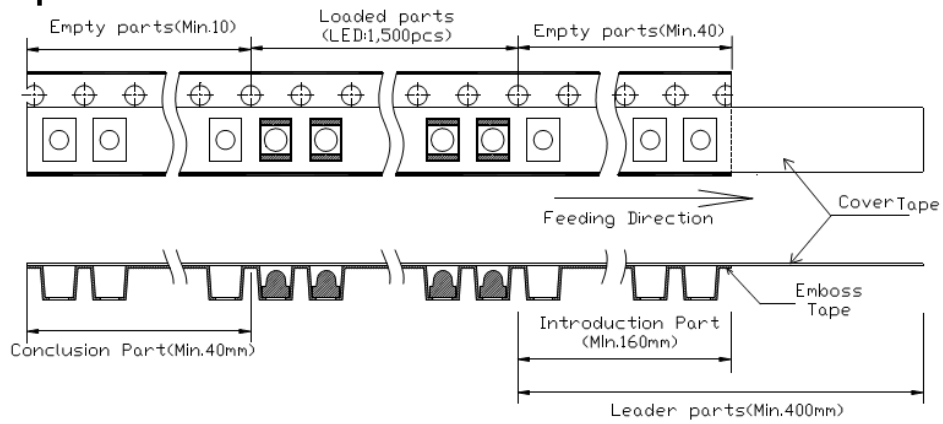
Reel Dimension:



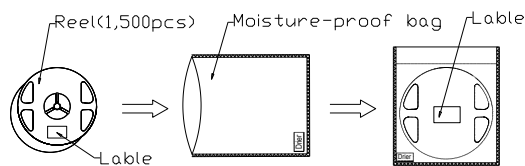
Tape Dimension:



Arrangement of Tape:



Packaging Specification:



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Labeling



Part No: _____
Customer P/N: _____
Item: _____
Q'ty: _____
Vf: _____
Iv: _____
VI: _____
Date: _____

Made in China

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP653-Y5-2897	QBLP653-Y5-2897	Iv=2400mcd typ. / Color = 585nm to 595nm @ 5mA	1,500 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP653-Y5-2897	V1.0	03/07/2023



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.