

QT-Brightek Chip LED Series

SMD 0402 Yellow LED

Part No.: QBLP595-Y-2897

2897: High Brightness Version

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Introduction

Feature:

- Water clear lens
- Color: yellow
- Package in tape and reel
- Compact 0402 package
- AllnGaP technology
- Viewing angle: 140° typ.
- Height profile: 0.5mm

Application:

- Status indication
- Back lighting application

Certification & Compliance:

- ISO9001
- RoHS Compliant





Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	L (m A)	V _F	(V)		λ _D (nm))	λ _P (nm)	l _v (n	ncd)
Product	Color	I _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Тур.	Min.	Тур.
QBLP595-Y-2897	Yellow	20	2.0	2.5	585	590	595	593	160	300

Absolute Maximum Rating

Chip Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	Т _{ОР} (°С)	Т _{sт} (°С)	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=20mA

Bin	Min.	Max.	Unit
	1.7	2.5	V

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
К	160	200	
L	200	250	
М	250	320	mcd
Ν	320	400	
0	400	500	

Dominant Wavelength $\lambda_D @ I_F = 20 \text{mA}$

Bin	Min.	Max.	Unit
m	585	590	200
n	590	595	nm

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Characteristic Curves



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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 Specifications:



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Labeling



Made in China

Ordering Information

Orderable Part #	Shoo Bongo	Quantity par real
Oldelable Fall #	Spec Range	Quantity per reel
QBLP595-Y-2897	Iv=300mcd typ. @ I _F =20mA / Color=585 to 595nm	5,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-Y-2897	V1.0	04/11/2025

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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.

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