

QT-Brightek Side View LED Series 0602 Side View (Right Angle) LED

Part No.: QBLP617-IB-2897

2897: High Brightness Version

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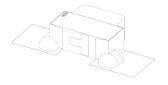
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Introduction

Feature:

- Water clear lens
- Package in tape and reel
- Side view (right angle) 0602 LED package
- InGaN technology
- Beam Angle: 140° typ.
- Height profile: 0.6mm



Application:

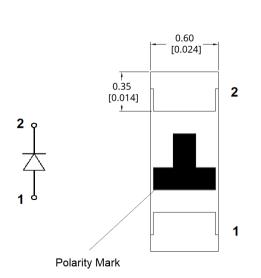
- Status indication
- Back lighting application
- General Use

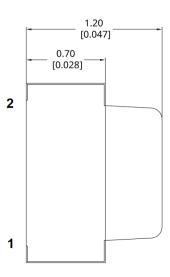
Certification & Compliance:

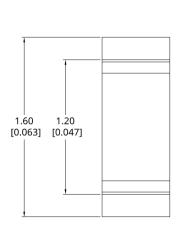
- ISO9001
- RoHS Compliant



Dimension:







Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I (mA)	V_{F}	(V)		λ _D (nm)		λ _P (nm)		I _v (mcd)	
Product Color	I _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Тур.	Min.	Тур.	Max.	
QBLP617-IB-2897	Blue	20	3.05	3.4	465	470	475	465	105	200	320

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
InGaN	102	30	125	5	-40 to +80	-40 to +85	260

^{*}Duty 1/8 @ 1kHz

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
е	2.5	2.8	
f	2.8	3.1	V
g	3.1	3.4	

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
1	105	131	
J	131	164	
K	164	205	mcd
L	205	256	
M	256	320	

Dominant Wavelength λ_D @ I_F =20mA

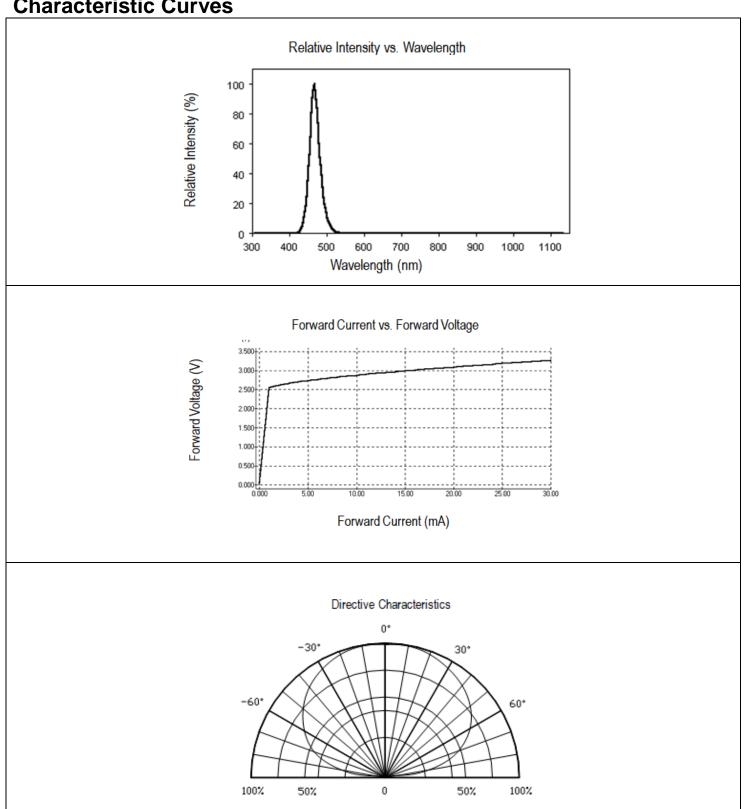
Bin	Min.	Max.	Unit
G	465	467.5	
Н	467.5	470	nm
I	470	472.5	nm
J	472.5	475	

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



Characteristic Curves

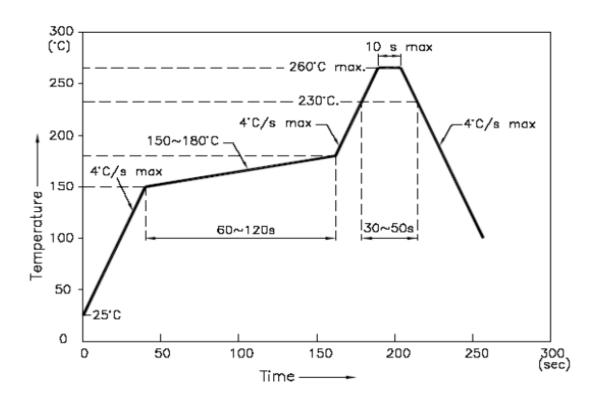


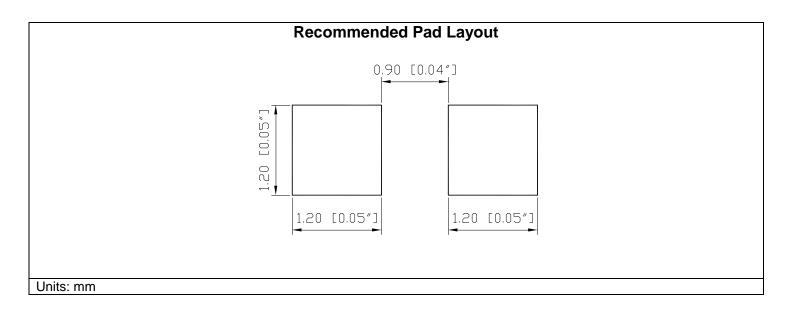
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Solder Profile & Footprint

- -Recommended tin solder specifications: melting temperature in the range of 178~192 $^{\rm O}{\rm C}$
- -The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):

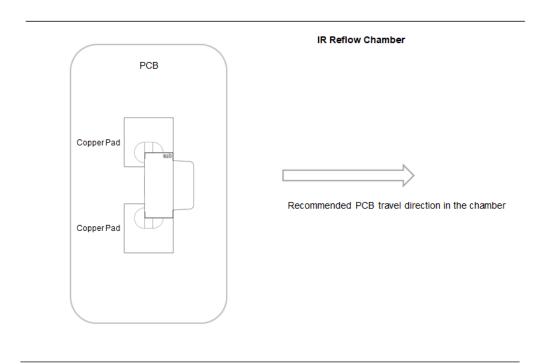




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- The recommended IR reflow direction for a right angle (side view) SMD led is illustrated below to insure the solder on each lead melts simultaneously during the SMT reflow soldering process.



Mounting the LED on PCB



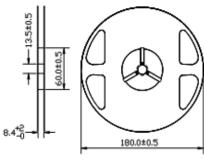
Note: The amount of solder paste applied as shown in the picture is just for illustration purpose only. When mounting and soldering the LEDs, avoid excess solder paste from overflowing onto or near the epoxy lens.

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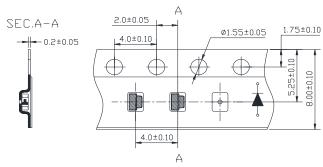
Packing

Reel Dimension:



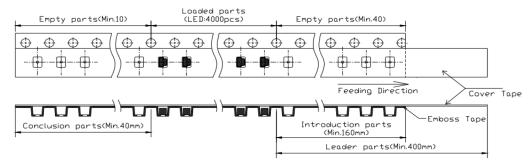
Unit: mm

Tape Dimension:

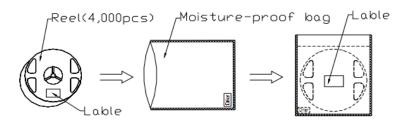


Unit: mm

Arrangement of Tape:



Packaging Specifications:



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Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
<u>∨f</u> :
lv:
WI:
Date:

wade in China

Ordering Information

<u> </u>		
Orderable Part #	Spec Range	Quantity per reel
		, ,
QBLP617-IB5-2897	Iv=200mcd typ. @ 20mA / Color=465nm ~ 475nm	4,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP617-IB-2897	V1.0	10/29/2024

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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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