

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

Part No.: QBLP617-R-2897

2897: High Brightness Version

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Introduction

Feature:

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



Application:

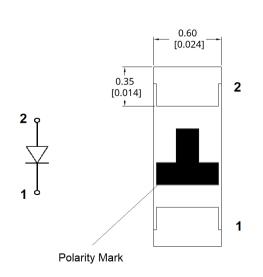
- Status indication
- Back lighting application
- General Use

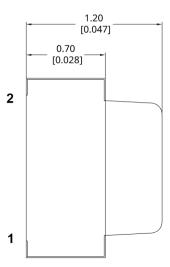
Certification & Compliance:

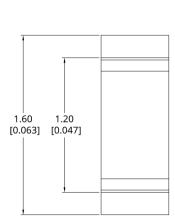
- ISO9001
- RoHS Compliant



Dimension:







Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

Broduct	Color	I _F (mA)	V _F	(V)		λ _D (nm)		λ _P (nm)		I _v (mcd)	
Product Color	Coloi	or I _F (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Тур.	Min.	Тур.	Max.
QBLP617-R-2897	Red	20	2.0	2.5	615	624	630	630	250	480	800

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)**
AllnGaP	75	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
	1.7	2.5	V

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
N	250	320	
0	320	400	
Р	400	500	mcd
Q	500	630	
R	630	800	

Dominant Wavelength λ_D @ $I_F=20mA$

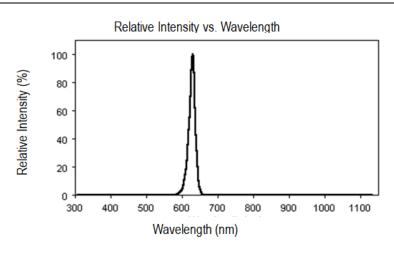
	U =	- •	
Bin	Min.	Max.	Unit
S	615	620	
t	620	625	nm
u	625	630	

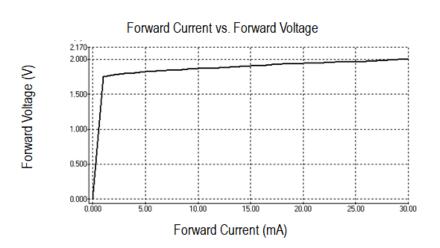
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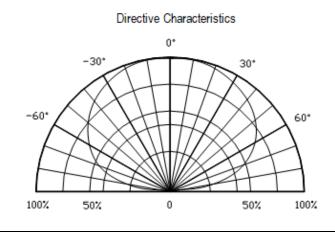
^{**}IR Reflow for no more than 10 sec @ 260 °C



Characteristic Curves





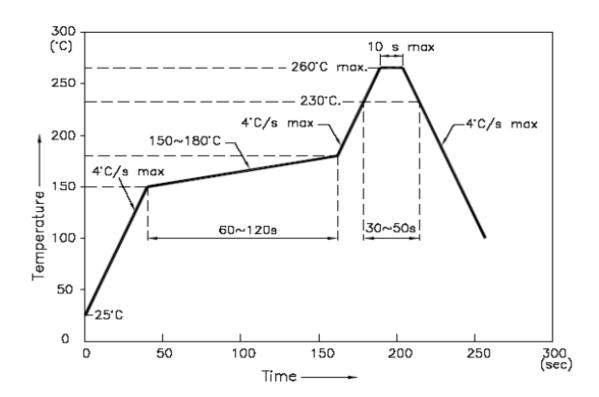


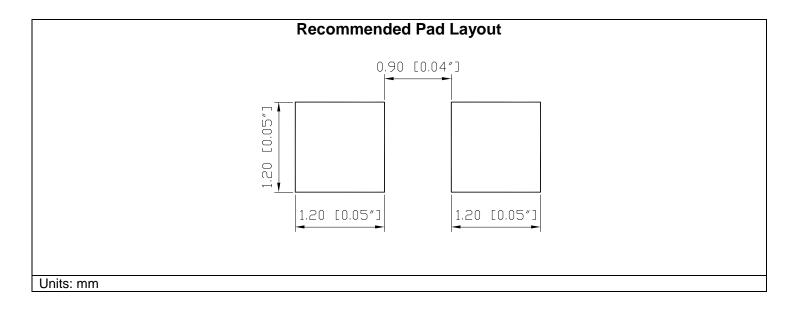
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Solder Profile & Footprint

- -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):

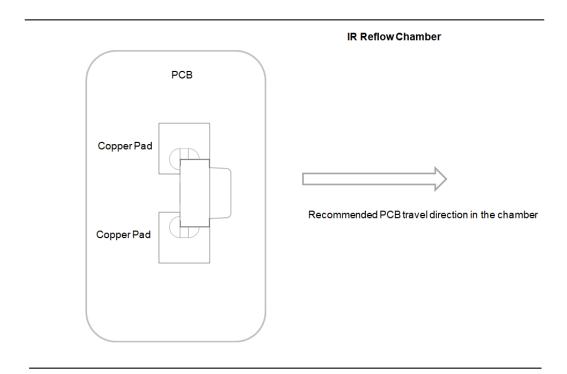




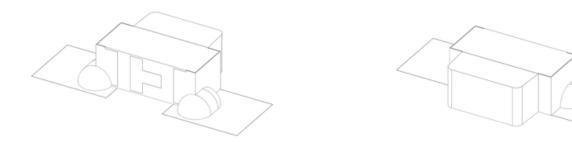
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- The recommended IR reflow direction for a right angle (side view) SMD led is illustrated below to insure the solder on each lead melts simultaneously during the SMT reflow soldering process.



Mounting the LED on PCB



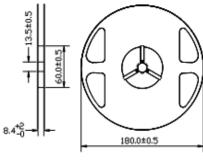
Note: The amount of solder paste applied as shown in the picture is just for illustration purpose only. When mounting and soldering the LEDs, avoid excess solder paste from overflowing onto or near the epoxy lens.

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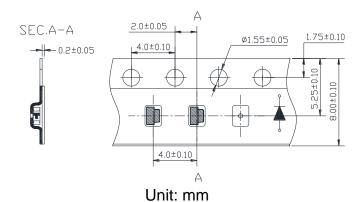
Packing

Reel Dimension:

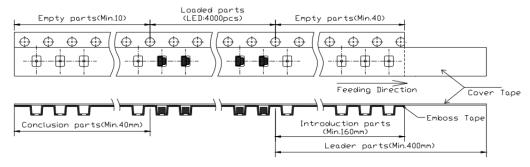


Unit: mm

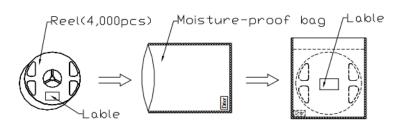
Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



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Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
lv:
WI:
Date:

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP617-R-2897	Iv=480mcd typ. @ 20mA / Color=615nm ~ 630nm	4,000 units

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Revision History

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

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.

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