

QT-Brightek Side View LED Series SMD 0602 Side View Green LED

Part No.: QBLP617-AG1

Product: QBL617-AG1	Date: February 17, 2022	Page 1 of 10
	Version# 1.0	

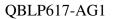




Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	∠
Absolute Maximum Rating	∠
Characteristic Curves	
Solder Profile & Footprint	6
Mounting the LED on PCB	
Packing	
Labeling	
Ordering Information	
Revision History	10
Disclaimer	10

Product: QBL617-AG1	Date: February 17, 2022	Page 2 of 10
	Version# 1.0	



Introduction

Feature:

- Water clear lens
- Package in tape and reel
- AlInGaP technology
- Viewing Angle: 140° typ.
- Side view (right angle) 0602 LED package



Description:

These ultra bright side view 0602 LEDs have a height profile of 0.6mm. With higher packing density and smaller footprint, these LEDs are ideal for smaller equipment and miniature application.

Application:

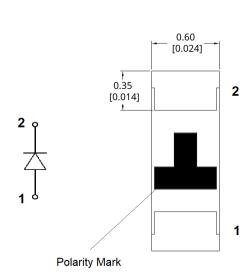
- Status indication
- Back lighting application
- General Use

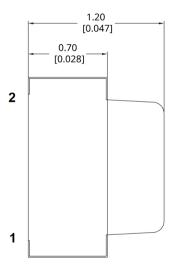
Certification & Compliance:

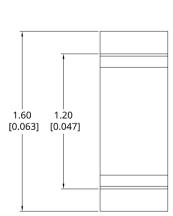
- ISO9001
- RoHS Compliant



Dimension:







Units: mm / tolerance = +/-0.1mm

Product: QBL617-AG1	Date: February 17, 2022	Page 3 of 10
	Version# 1.0	



Electrical / Optical Characteristic (Ta=25 °C)

Product Color	Color	I (m A)	$V_F(V)$		_	λ _D (nm)		I _V (n	ncd)
	r I _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	
QBLP617-AG1	Green	20	2.0	2.5	566	570	575	32	45

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
E	32	40	
F	40	50	mcd
G	50	63	

Dominant Wavelength λ_D@ I_F=20mA

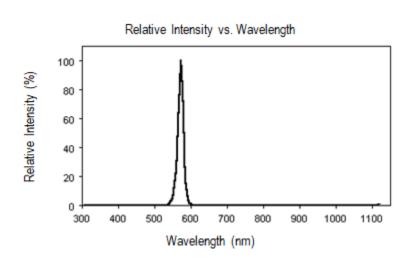
Bin	Min.	Max.	Unit
Н	566	569	
I	569	572	nm
J	572	575	

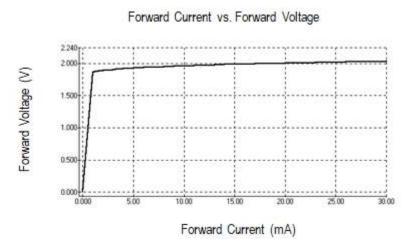
Product: QBL617-AG1	Date: February 17, 2022	Page 4 of 10
	Version# 1.0	

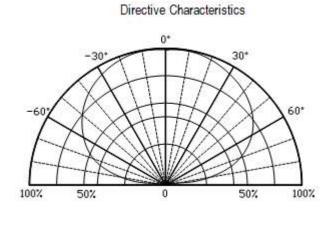
^{**}IR Reflow for no more than 10 sec @ 260 °C



Characteristic Curves





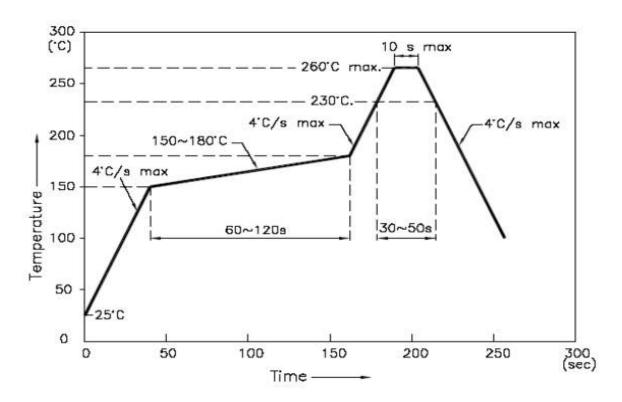


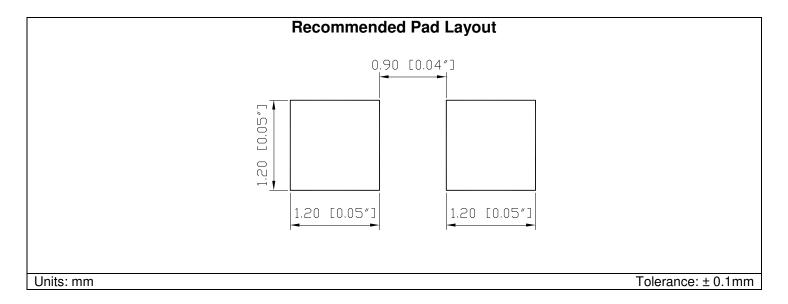
Product: QBL617-AG1	Date: February 17, 2022	Page 5 of 10
	Version# 1.0	



Solder Profile & Footprint

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

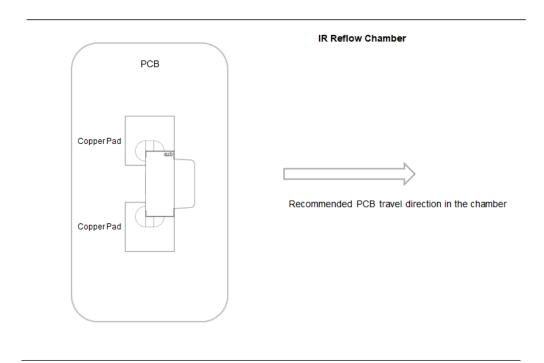




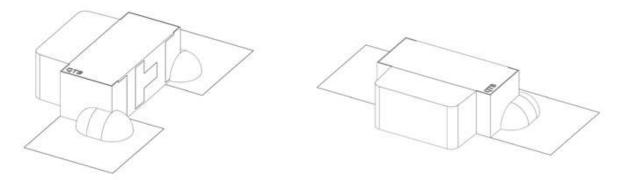
Product: QBL617-AG1	Date: February 17, 2022	Page 6 of 10
	Version# 1.0	



- 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



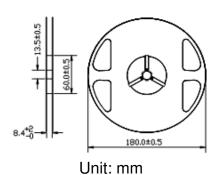
Note: The amount of solder paste applied as shown in the picture is just for illustration purpose only. When mounting and soldering the LEDs, avoid excess solder paste from overflowing onto or near the epoxy lens.

Product: QBL617-AG1	Date: February 17, 2022	Page 7 of 10
	Version# 1.0	

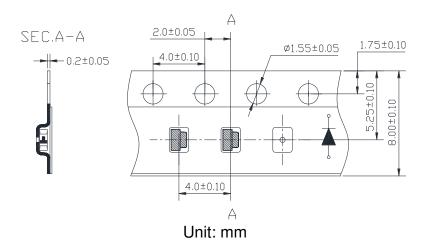


Packing

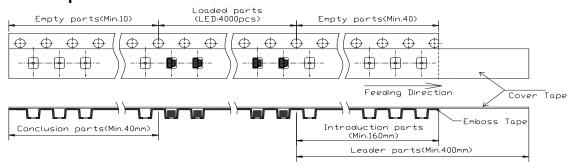
Reel Dimension:



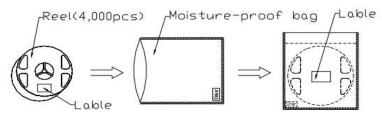
Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



Product: QBL617-AG1	Date: February 17, 2022	Page 8 of 10
	Version# 1.0	



Labeling

Part No:	_
Customer P/N:	_
tem:	_
Q'ty:	
/f:	
v :	_
VI :	_
Date:	
Made in China	

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP617-AG1	QBLP617-AG1	Iv=45mcd typ. @ I_F =20mA, λ_D =566nm ~ 575nm	4,000 units

Product: QBL617-AG1	Date: February 17, 2022	Page 9 of 10
	Version# 1.0	



Revision History

Description:	Revision #	Revision Date
New Release of QBLP617-AG1	V1.0	02/17/2022

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.

Product: QBL617-AG1	Date: February 17, 2022	Page 10 of 10
	Version# 1.0	