



SMD 0603 Green LED

Part No.: QBLP601-AG1

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Introduction

Feature:

- Water clear lens
- Color: Green
- Package in tape and reel
- Ultra bright 0603 LED package
- AlInGaP technology
- Viewing angle: 140 deg typ.

Description:

These ultra bright 0603 LEDs have a height profile of 0.60mm. Combination of high brightness output and small footprint, these LEDs are ideal for keypad backlighting and status indication.

Application:

- Status indication
- Back lighting application

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.1mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F	(V)		λ _D (nm)		l _v (n	ncd)
Froduct	COIOI	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP601-AG1	Green	20	2.0	2.5	566	570	575	32	55

Absolute Maximum Rating

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	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=20mA

Bin	Min.	Max.	Unit
b	1.6	1.9	
С	1.9	2.2	V
d	2.2	2.5	

Luminous Intensity Iv @ IF=20mA

Bin	Min.	Max.	Unit
E	32	40	
F	40	50	mad
G	50	63	mcd
Н	63	80	

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

Bin	Min.	Max.	Unit
Н	566	569	
1	569	572	nm
J	572	575	

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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:



Tape Dimension:



Arrangement of Tape:



Packaging Specifications:



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Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP601-AG1	QBLP601-AG1	Iv=55mcd typ. @ I _F =20mA / Color=566 to 575nm	4,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP601-AG1	V1.0	02/25/2021

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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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