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Introduction



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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	L (m A)	V _F (V)			λ _D (nm)		I _v (n	ncd)
Froduct	Color	l _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBLP617-YG	Yellow Green	20	2.0	2.5	565	570	576	5.0	15

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	Т _{оР} (°С)	Т _{ST} (°С)	T _{SOL} (°C)**
GaP	75	30	125	5	-40 to +80	-40 to +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
	1.7	2.5	V

Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
8	5.0	8.0	
9	8.0	12.5	
A	12.5	16	mcd
В	16	20	
С	20	25	

Dominant Wavelength $\lambda_D @ I_F=20mA$

Bin	Min.	Max.	Unit
h	565	568	
i	568	572	nm
j	572	576	

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Characteristic Curves



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Solder Profile & Footprint

-Recommended tin solder specifications: melting temperature in the range of 178~192 ^oC -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

🔞 QT-Brightek 🔮
I Part No:
Customer P/N:
Item:
Q'ty:
<u>Vf:</u>
WI:
Date:

Made in China

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP617-YG	QBLP617-YG	Iv=15mcd typ. @ I _F =20mA, λ _D =565nm ~ 576nm	4,000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP617-YG	V1.0	09/25/2014
Add recommend SMT and mounting suggestion / Optimize drawing dimensions in the datasheet	V1.1	04/11/2022

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