



Product: QBLP651-S1	Date: September 18, 2014	Page 1 of 9
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Introduction

Feature:

- Water clear lens
- Tape and reel packaging
- Bright LED package
- AlGaAs technology
- 40° Viewing Angle)

Description:

These 1206 LEDs have a height profile of 1.40mm. With a combination of high brightness output and a small footprint, these LEDs are ideal for status indication.

Application:

• Status indication

• Back lighting application

Certification & Compliance:

1.60

[0.06″]

- TS16949
- ISO9001
- RoHS Compliant



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Dimension:



Units: mm / tolerance = ± -0.1 mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product Number Color		roduct Number Color I _F (mA) V _F (V _F (V) λ _D (r		λ _D (nm)	(nm) Iv (n		ncd)	
	COIOI	IF (1174)	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Typ. 40
QBLP651-S1	Deep Red	20	1.7	2.0	2.5	630	640	650	20	40

Absolute Maximum Rating

	(mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	Т _{ОР} (°С)	I _{ST} (°C)	
AlGaAs	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
С	20	25	
D	25	32	
E	32	40	mcd
F	40	50	
G	50	63	

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

Bin	Min.	Max.	Unit
V	630	635	200
W	635	650	nm

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QT BRIGHTEK

QBLP651-S1

1206 LED with Inner Lens

Characteristic Curves



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Solder Profile

-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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Packing

Reel Dimensions:



Tape Dimensions:



Unit: mm

Arrangement of Tape:



Packing specifications:



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Labeling

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

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP651-S1	QBLP651-S1	I_V =40mcd typ. @ I_F =20mA, λ_D =630 to 650nm	3,000 pcs

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QBLP651-S1

Revision History

Description:	Revision #	Revision Date
New Release of QBLP651-S1	V1.0	09/18/2014

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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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