

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

Part No.: QBLP617-IG5

5: 5mA

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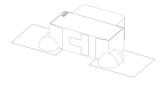
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#### Introduction

#### Feature:

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



#### Application:

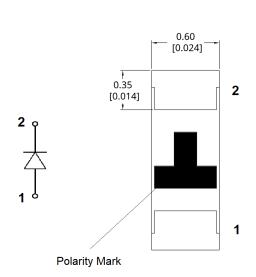
- Status indication
- Back lighting application
- General Use

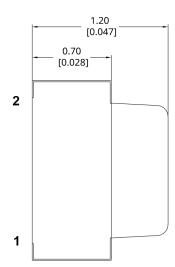
#### **Certification & Compliance:**

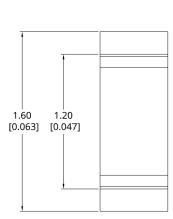
- ISO9001
- RoHS Compliant



#### Dimension:







Units: mm / tolerance = +/-0.1mm

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### Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	1 (m A)	V <sub>F</sub>	(V)		λ <sub>D</sub> (nm)		λ <sub>P</sub> (nm)		I <sub>v</sub> (mcd)	
Product Color	I <sub>F</sub> (mA)	Тур.	Max.	Min.	Тур.	Max.	Тур.	Min.	Тур.	Max.	
QBLP617-IG5	Green	5	2.8	3.1	525	528	535	520	100	195	320

# **Absolute Maximum Rating**

Material	P <sub>d</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)*	V <sub>R</sub> (V)	T <sub>OP</sub> (°C)	T <sub>ST</sub> (°C)	T <sub>SOL</sub> (°C)**
InGaN	93	30	125	5	-40 to +80	-40 to +85	260

<sup>\*</sup>Duty 1/8 @ 1kHz

# Forward Voltage V<sub>F</sub> @ I<sub>F</sub>=5mA

Bin	Min.	Max.	Unit
е	2.5	2.8	V
f	2.8	3.1	V

## Luminous Intensity I<sub>V</sub> @ I<sub>F</sub>=5mA

Bin	Min.	Max.	Unit
J	100	125	
K	125	160	
L	160	200	mcd
M	200	250	
N	250	320	

# Dominant Wavelength $\lambda_D$ @ $I_F=5mA$

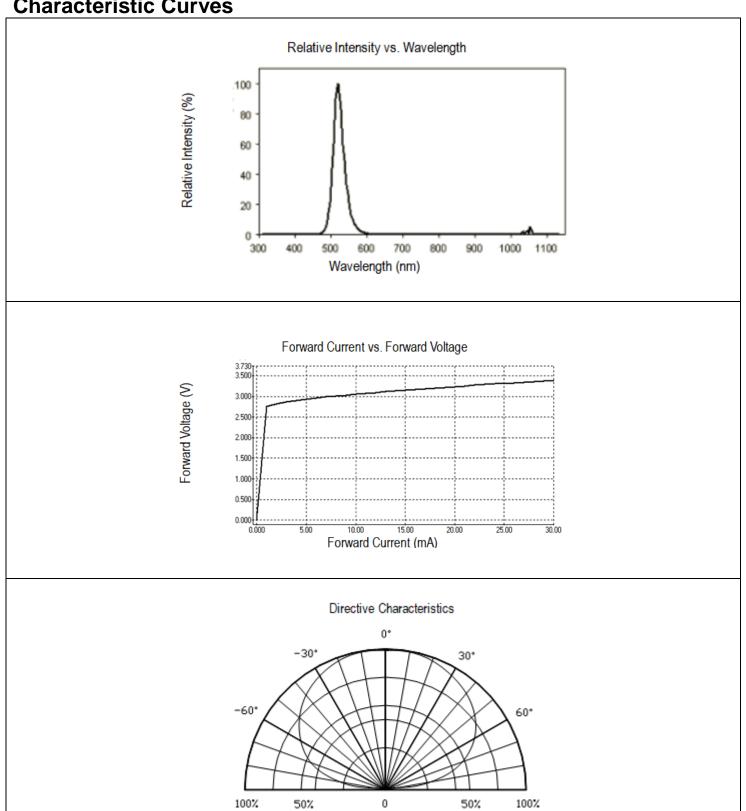
Bin	Min.	Max.	Unit	
W	525	527.5		
Χ	527.5	530	n.m.	
Υ	530	532.5	nm	
Z	532.5	535		

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<sup>\*\*</sup>IR Reflow for no more than 10 sec @ 260 °C



#### **Characteristic Curves**

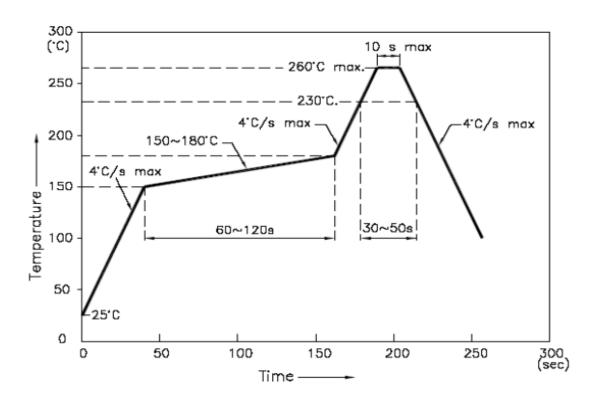


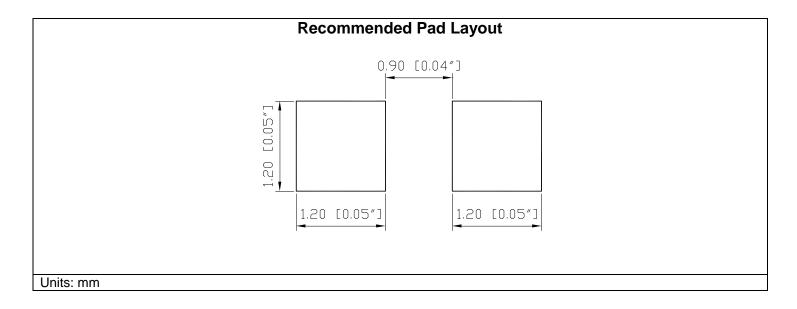
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# **Solder Profile & Footprint**

- -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):

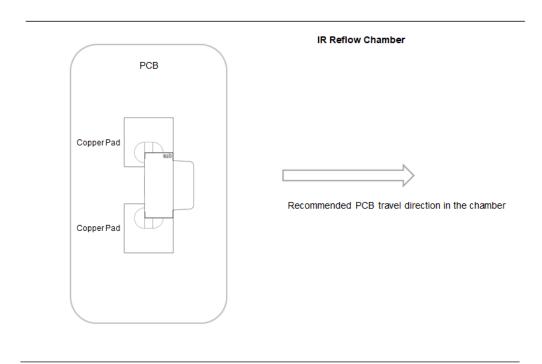




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- The recommended IR reflow direction for a right angle (side view) SMD led is illustrated below to insure the solder on each lead melts simultaneously during the SMT reflow soldering process.



# **Mounting the LED on PCB**



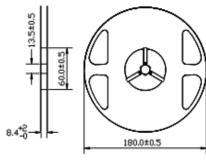
Note: The amount of solder paste applied as shown in the picture is just for illustration purpose only. When mounting and soldering the LEDs, avoid excess solder paste from overflowing onto or near the epoxy lens.

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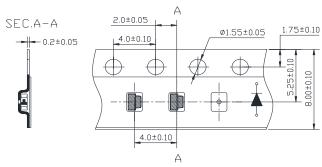
# **Packing**

#### **Reel Dimension:**



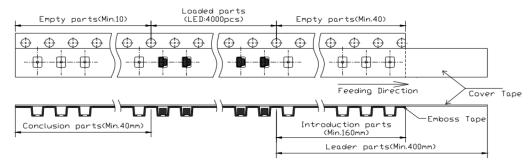
Unit: mm

#### **Tape Dimension:**

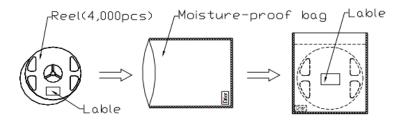


Unit: mm

#### **Arrangement of Tape:**



# **Packaging Specifications:**



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# Labeling

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

**Ordering Information** 

	-	
Orderable Part #	Spec Range	Quantity per reel
QBLP617-IG5	Iv=195mcd typ. @ 5mA / Color=525nm ~ 535nm	4,000 units

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**Revision History** 

Description:	Revision #	Revision Date
New Release of QBLP617-IG5	V1.0	10/29/2024

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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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