

**Feature:**

- Water clear lens
- Package in tape and reel
- Ultra bright 0606 LED package
- GaAsP technology for Yellow
- GaP technology for Yellow-Green

**Description:**

These ultra bright 0606 YYG LEDs have a height profile of 0.80mm. Combination of high brightness output and small footprint, these LEDs are ideal for keypad backlighting, status indication, and color mixing applications.

**Application:**

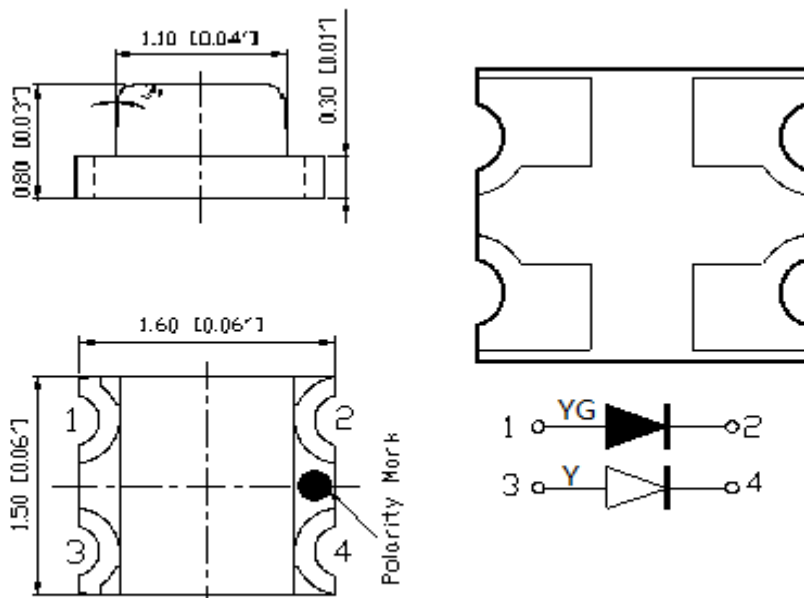
- Status indication
- Back lighting application

**Certification & Compliance:**

- TS16949
- ISO9001
- RoHS Compliant



**Dimension:**



Units: mm / tolerance = +/-0.1mm

**Electrical / Optical Characteristic (T=25 °C)**

Product	Color	I <sub>F</sub> (mA)	V <sub>F</sub> (V)		λ <sub>D</sub> (nm)			I <sub>V</sub> (mcd)	
			Typ.	Max	Min	Typ.	Max	Min	Typ.
QBLP600-YYG	Yellow	20	2.0	2.5	585	590	595	8.0	20
	Yellow-Green	20	2.0	2.5	565	570	576	13	25

**Absolute Maximum Rating**

Part #	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)**
Yellow (GaAsP)	75	30	125	5	-40 ~ +80	-40 ~ +85	260
Yellow-Green (GaP)	75	30	125	5	-40 ~ +80	-40 ~ +85	260

\*Duty 1/10 @ 10KHz

\*\* IR Reflow for no more than 10 sec @ 260 °C

**Forward Voltage V<sub>F</sub> for AlInGaP (Red and Yellow-Green) @ I<sub>F</sub>=20mA**

Bin	Min.	Max.	Unit
□	1.7	2.5	V

**Luminous Intensity I<sub>V</sub> @ I<sub>F</sub>=20mA**

Bin	Min.	Max.	Unit
7	3.20	5.0	mcd
8	5.0	8.0	
9	8.0	12.5	
A	12.5	16	
B	16	20	
C	20	25	

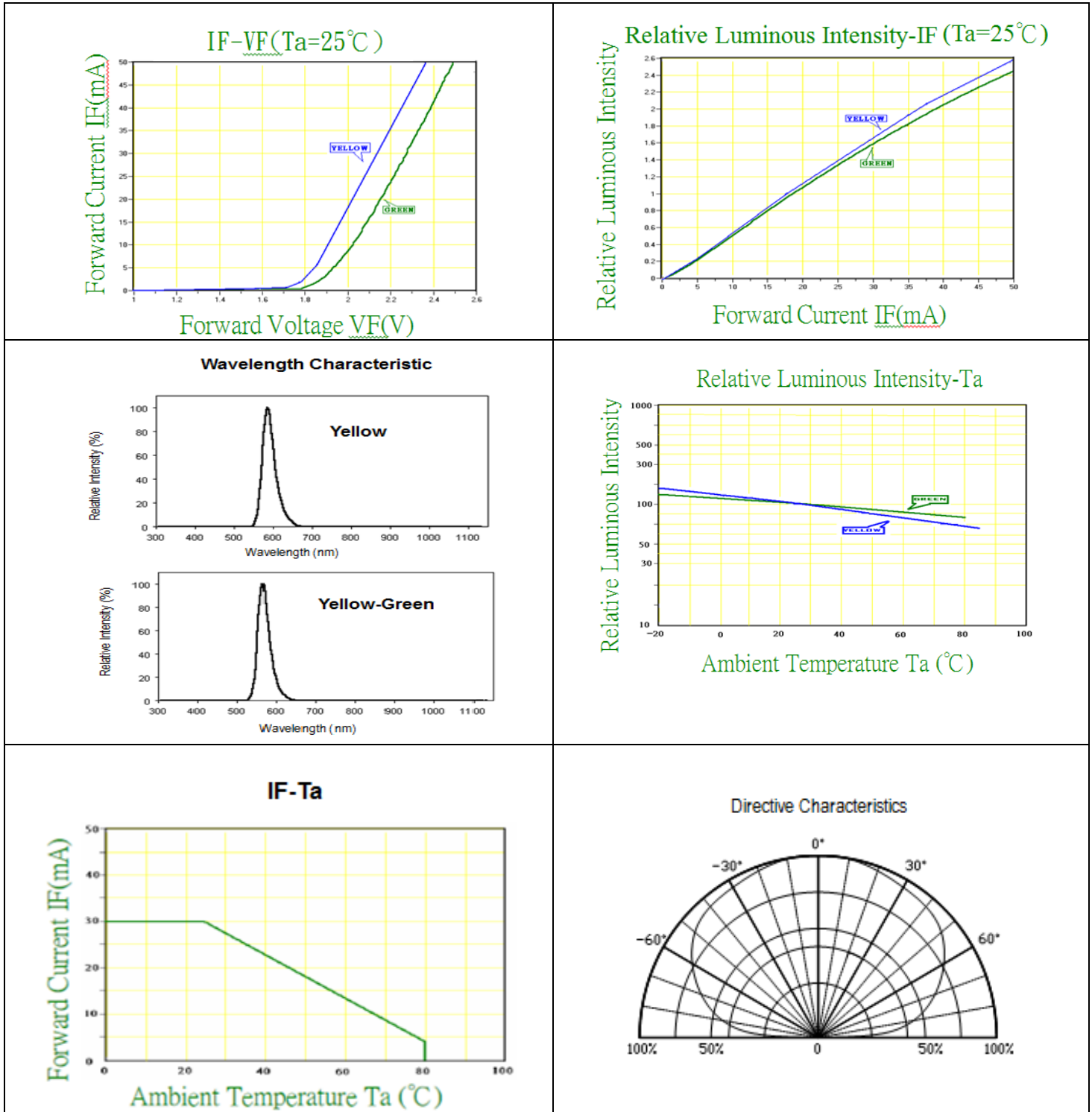
**Dominant Wavelength λ<sub>D</sub> for Yellow @ I<sub>F</sub>=20mA**

Bin	Min.	Max.	Unit
m	585	590	nm
n	590	595	

**Dominant Wavelength λ<sub>D</sub> for Yellow Green @ I<sub>F</sub>=20mA**

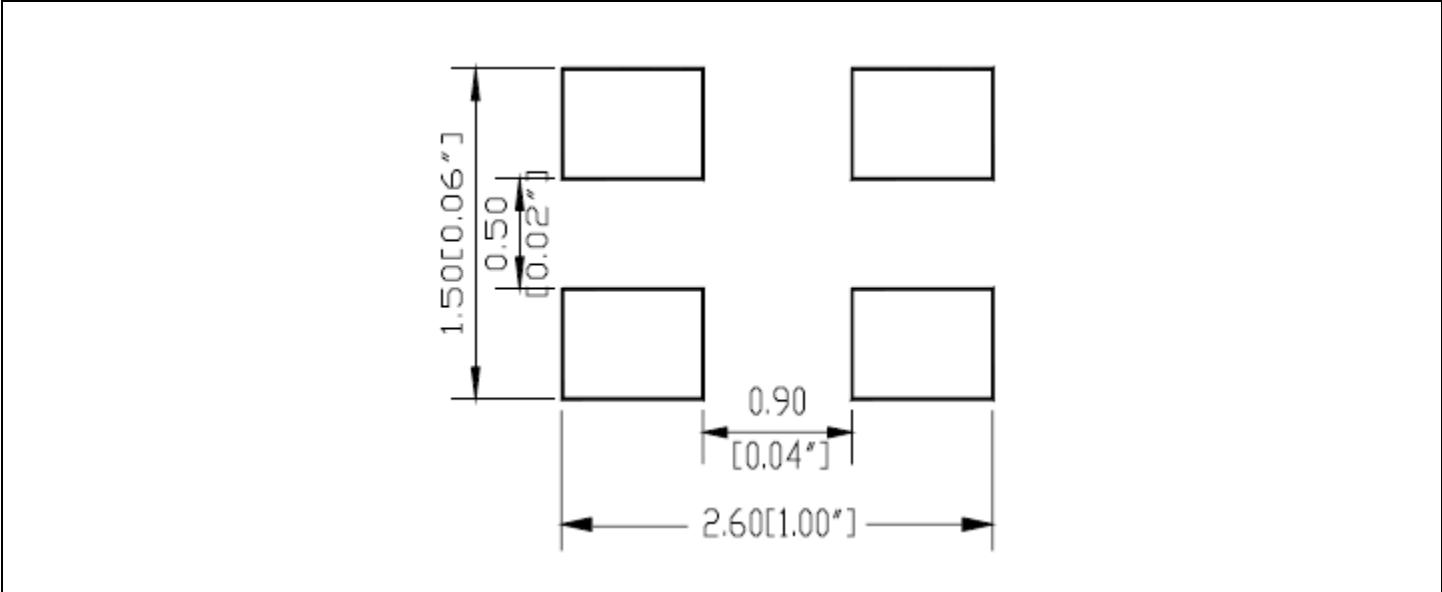
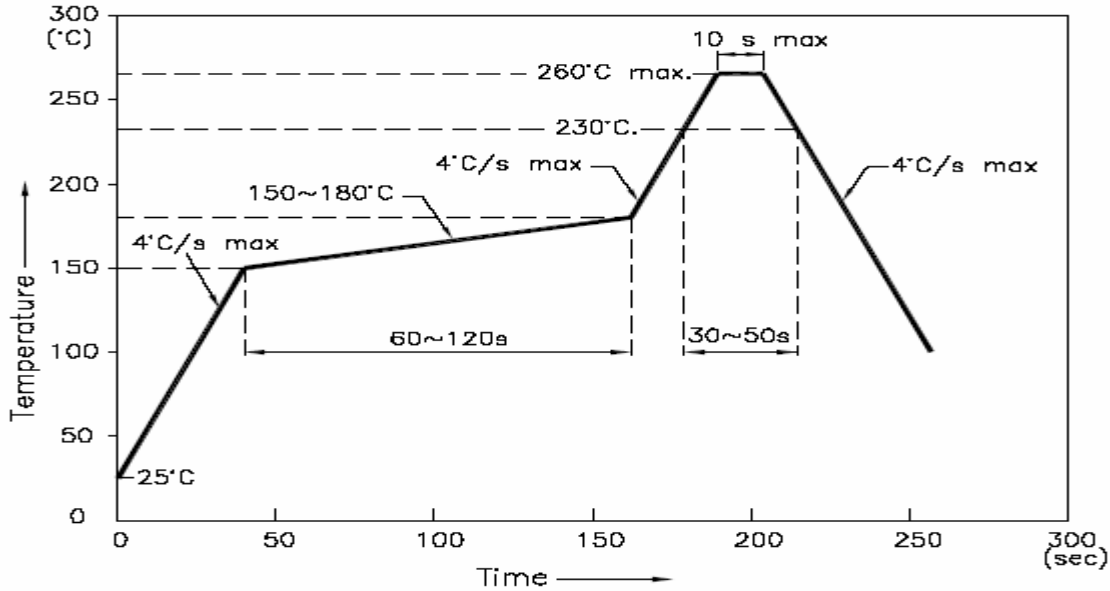
Bin	Min.	Max.	Unit
h	565	568	nm
i	568	572	
J	572	576	

**Characteristic Curves:**



**Solder Profile & Footprint:**

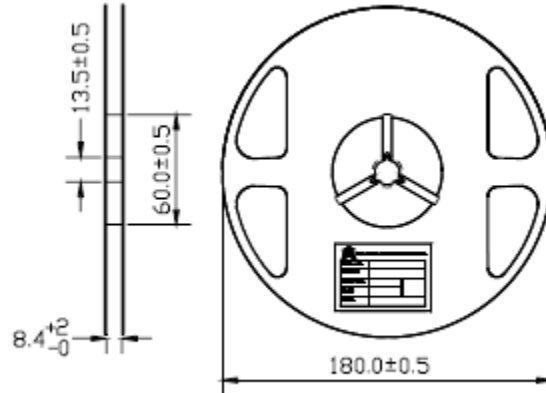
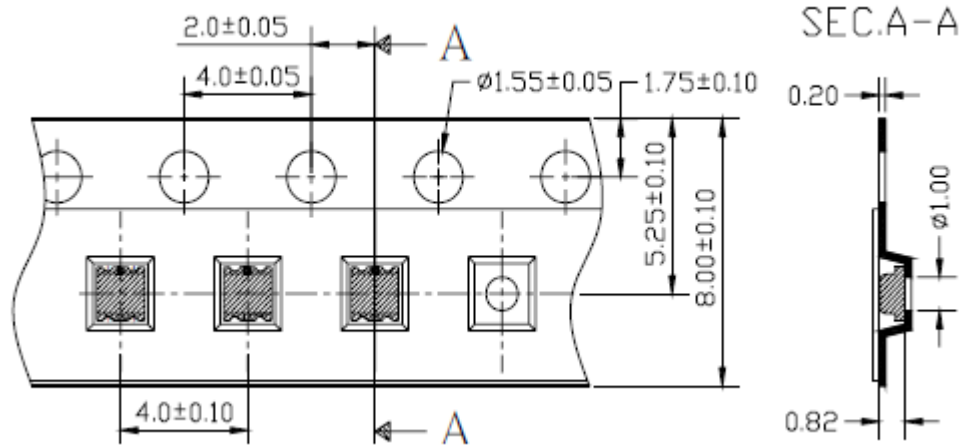
- Recommended tin glue specifications: melting temperature in the range of 178~192 °C
- The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



Units: mm

tolerance: +/- 0.1mm

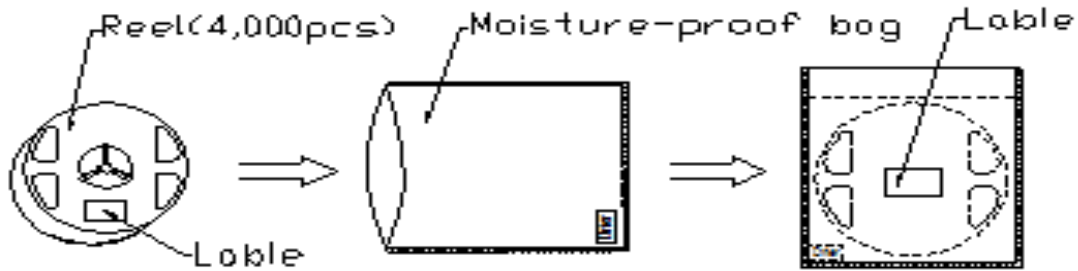
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**Packing:****Reel Dimension:****Tape Dimension:****(Unit in mm)**

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**Labeling:**

<span style="font-size: 1.2em; font-weight: bold; margin: 0 10px;">QT-Brightek</span>
Part No: _____
Customer P/N: _____
Item: _____
Q'ty: _____
Vf: _____
Iv: _____
WI: _____
Date: _____
<b>Made in China</b>



**Ordering Information:**

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP600-YYG	QBLP600-YYG	Standard Spec	4,000 units

**Revision History:**

Description:	Revision #	Revision Date
New Release of QBLP600-YYG	V1.0	06/25/2011
Update Specification	V1.1	12/09/2011