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.

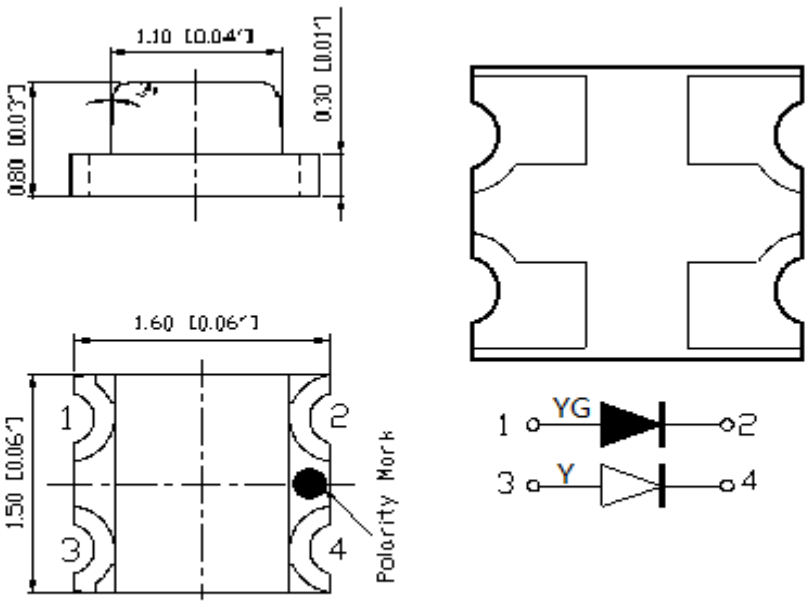
Application:

- 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_F(mA)	V_F(V)		λ_D (nm)			I_V(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_d (mW)	I_F (mA)	I_{FP} (mA)*	V_R (V)	T_{OP} (°C)	T_{ST} (°C)	T_{SOL} (°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_F for AlInGaP (Red and Yellow-Green) @ I_F=20mA

Bin	Min.	Max.	Unit
□	1.7	2.5	V

Luminous Intensity I_V @ I_F=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	

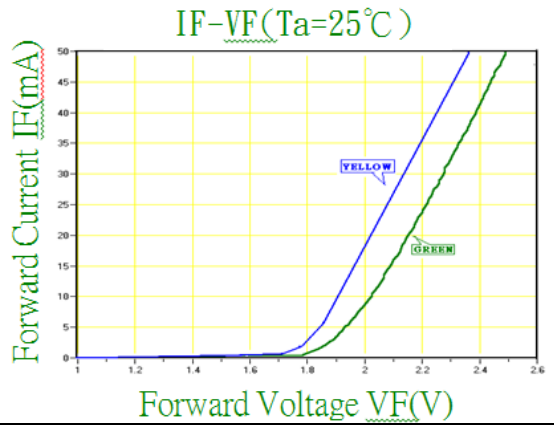
Dominant Wavelength λ_D for Yellow @ I_F=20mA

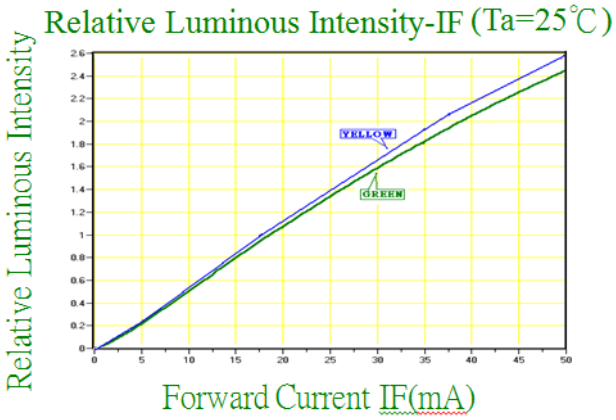
Bin	Min.	Max.	Unit
m	585	590	nm
n	590	595	

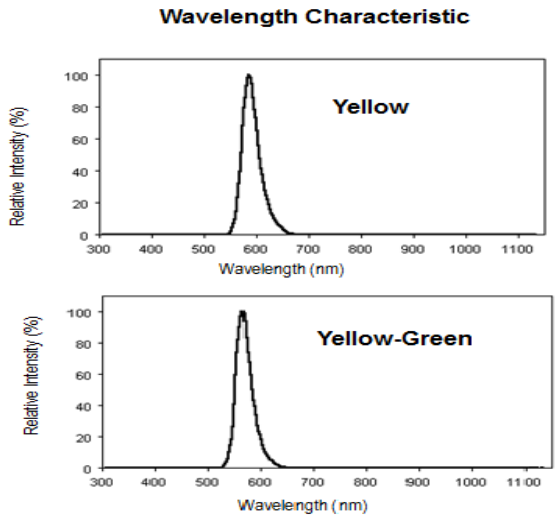
Dominant Wavelength λ_D for Yellow Green @ I_F=20mA

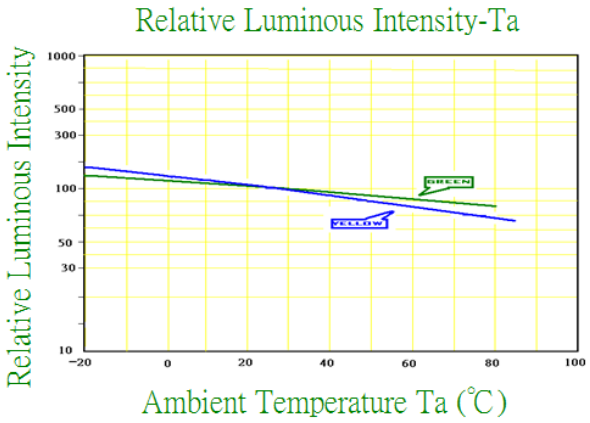
Bin	Min.	Max.	Unit
h	565	568	nm
i	568	572	
J	572	576	

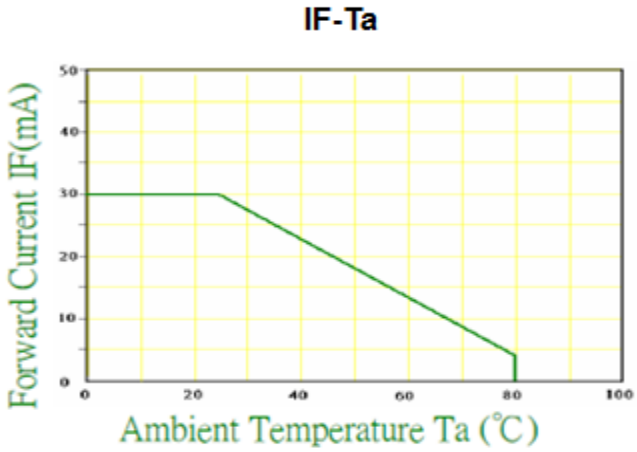
Characteristic Curves:

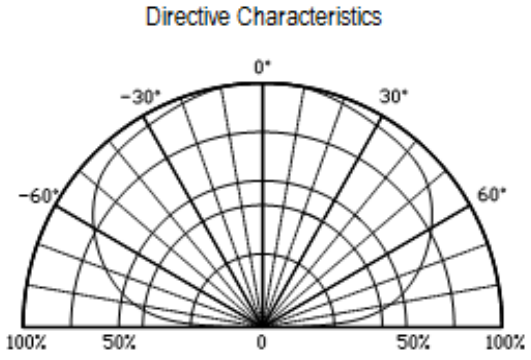






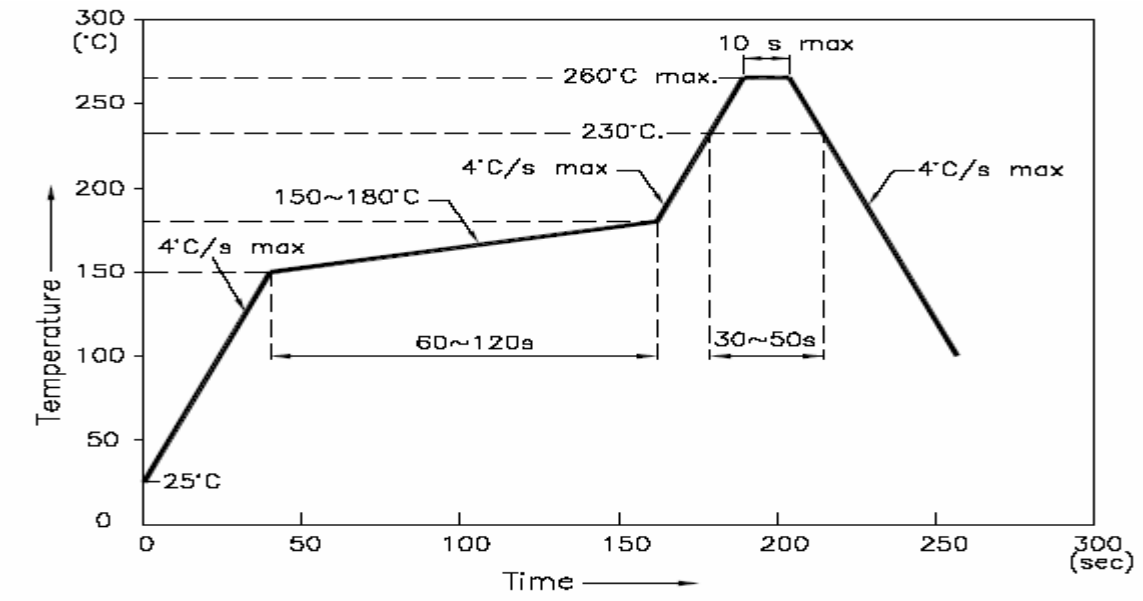


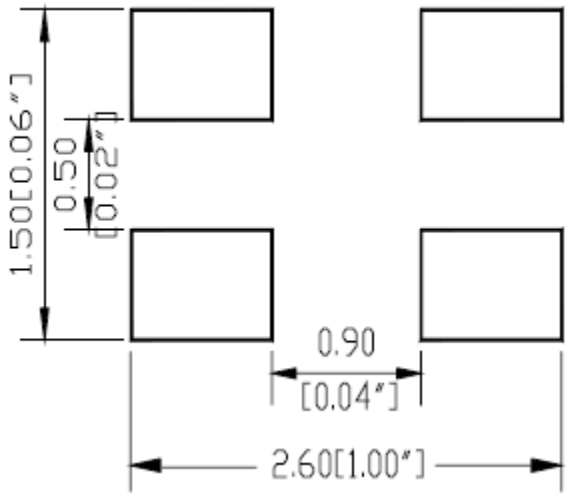




Solder Profile & Footprint:

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

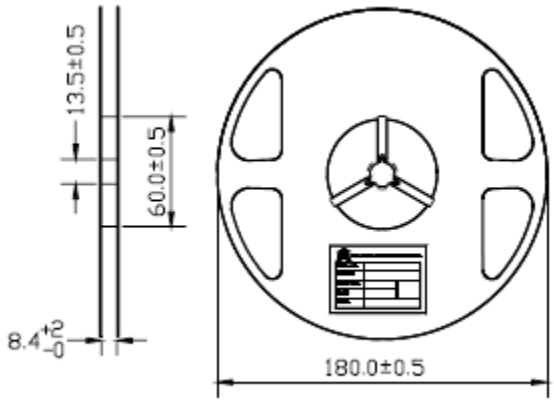




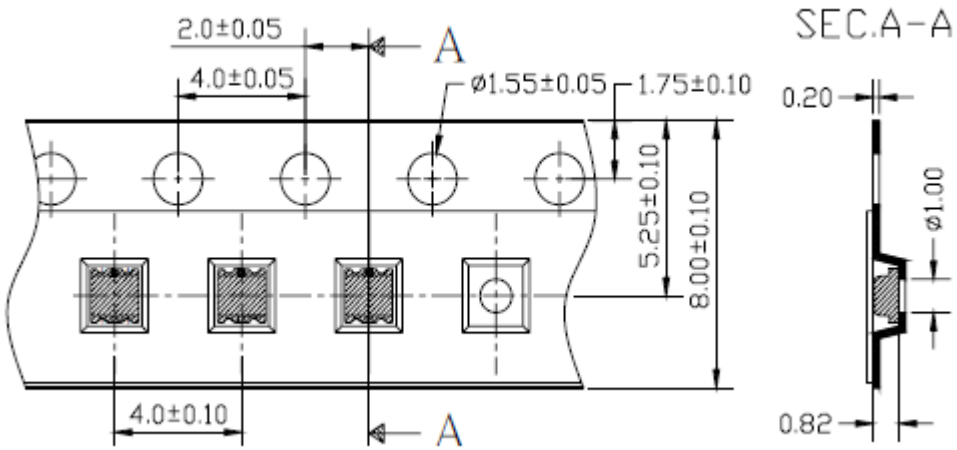
Units: mm tolerance: +/- 0.1mm

Packing:

Reel Dimension:



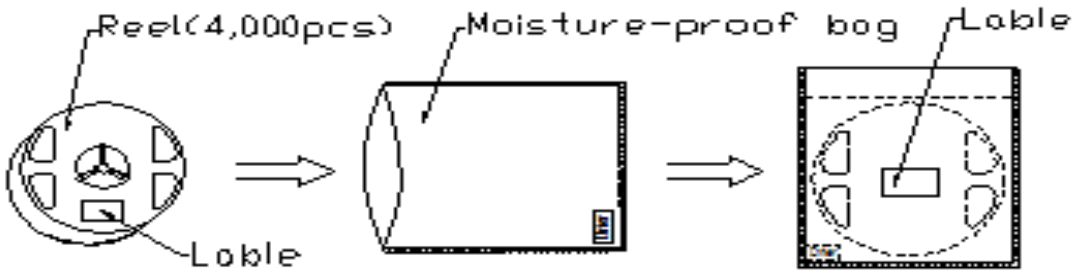
Tape Dimension:



(Unit in mm)

Labeling:





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