

Feature:

- Water clear lens
- Package in tape and reel
- Ultra bright 0606 LED package
- Common Anode
- InGaN technology for IB/IG
- AlInGaP technology for R

Description:

These ultra bright 0606 RGB 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:

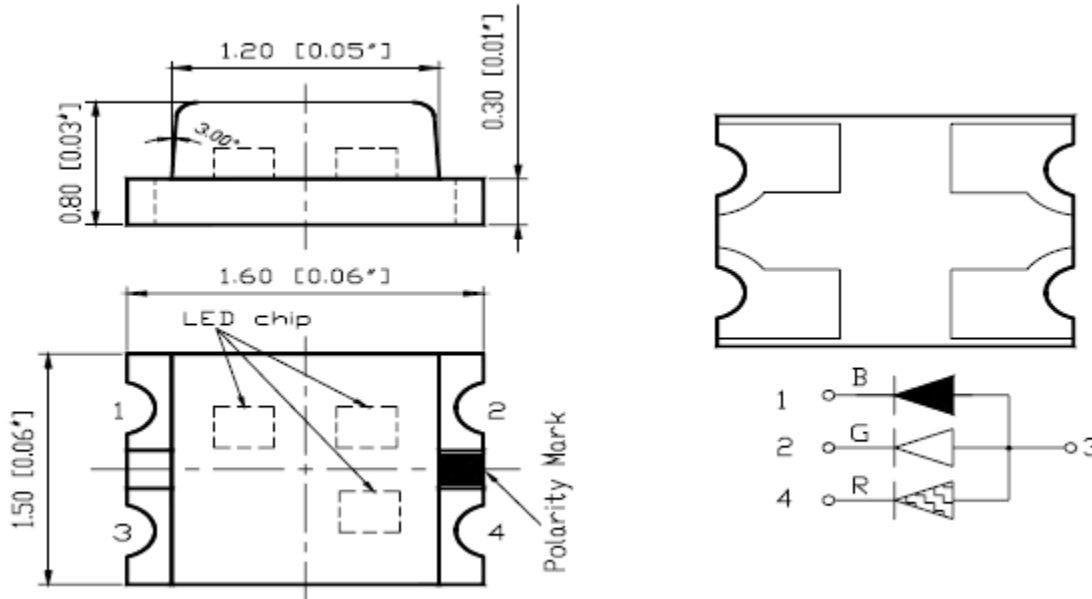
- Status indication
- Back lighting application

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-RGB	Blue	20	3.3	3.8	465	---	475	40	70
	True Green	20	3.3	3.8	520	---	530	160	320
	Red	20	2.0	2.5	625	---	635	63	150

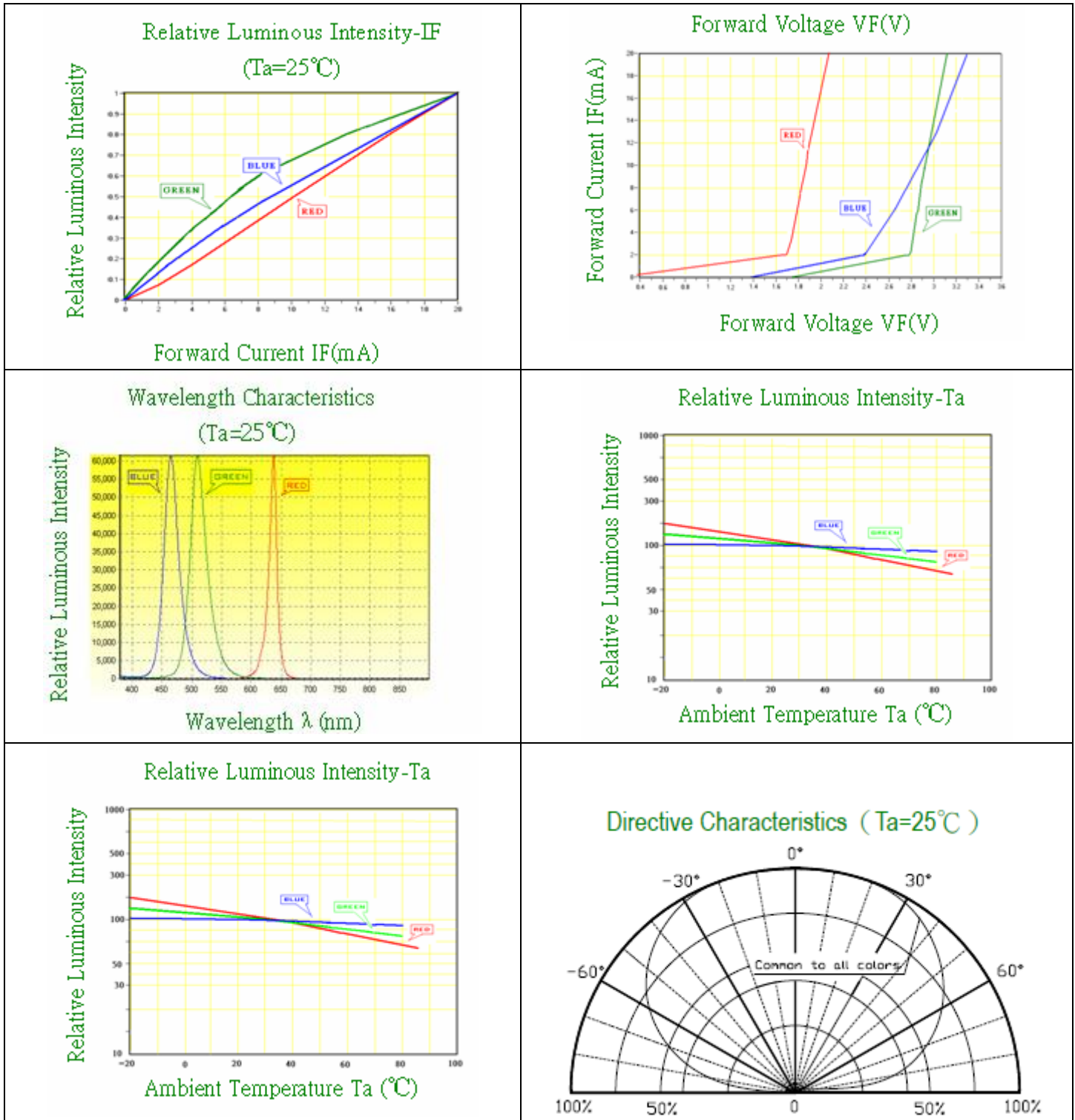
Absolute Maximum Rating

Part #	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
InGaN (IB/IG)	111	30	125	5	-40 - 80	-40 - 85	260
AllnGaP (R)	75	30	125	5	-40 - 80	-40 - 85	260

*Duty 1/10 @ 10KHz

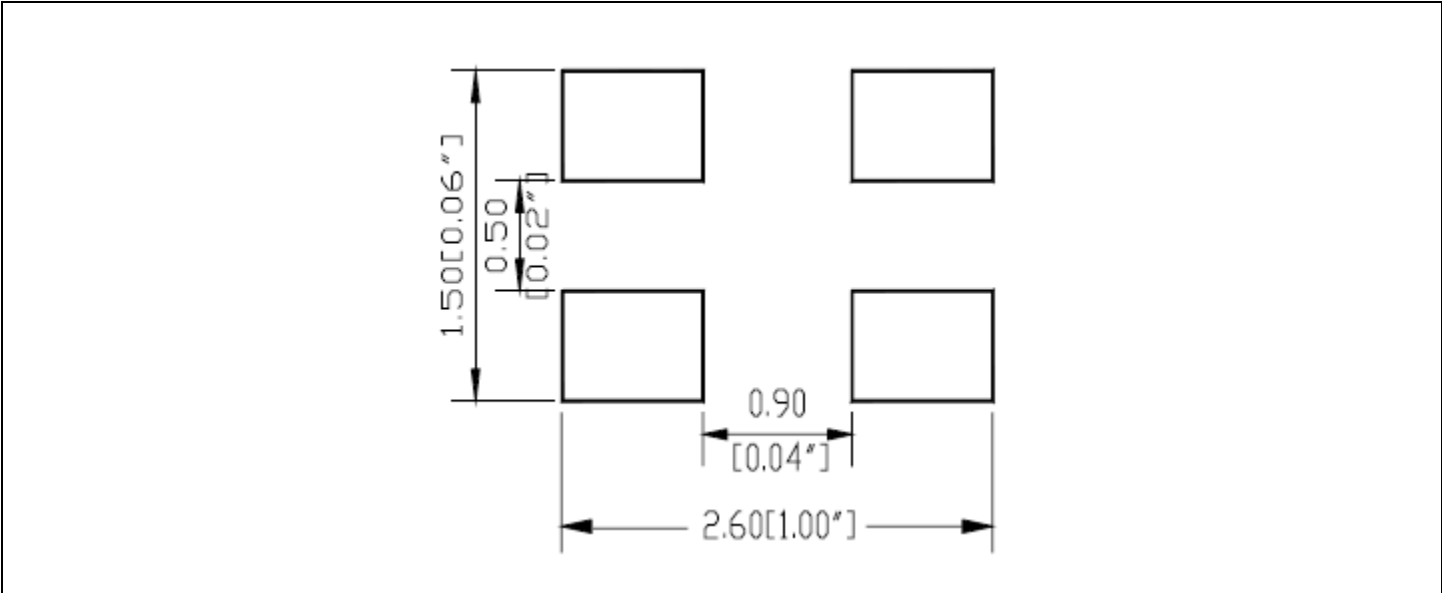
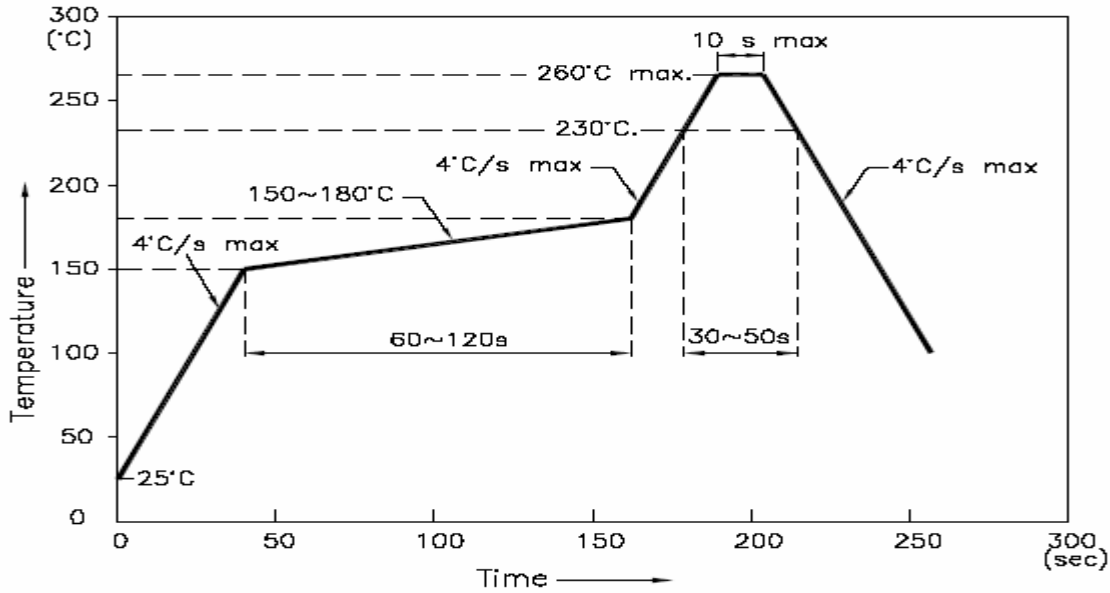
** IR Reflow for no more than 10 sec @ 260 °C

Characteristic Curves:



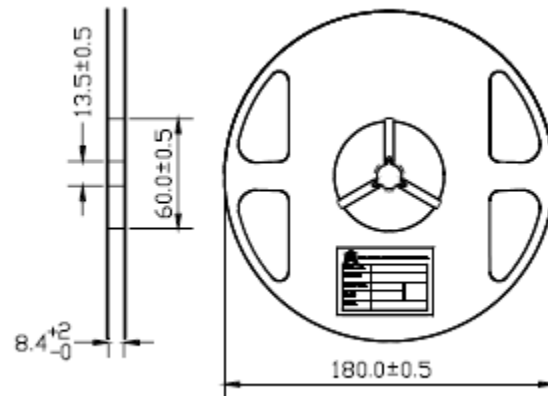
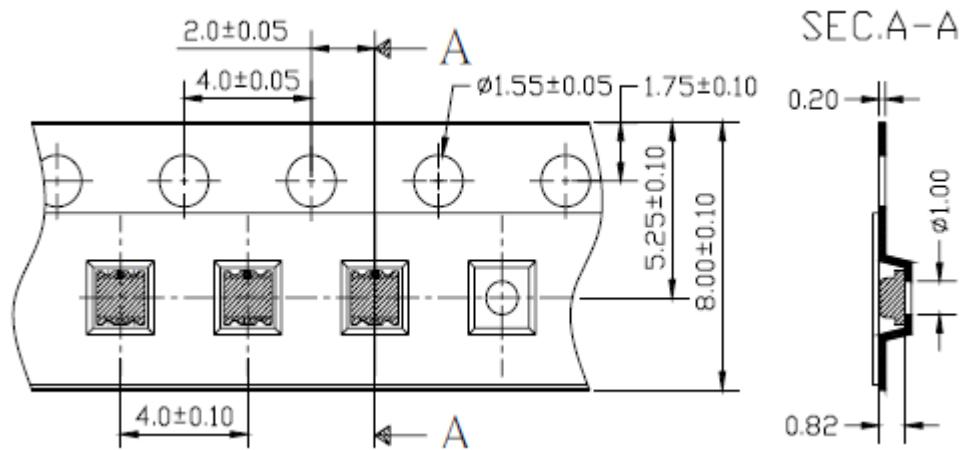
Solder Profile & Footprint:

- 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

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

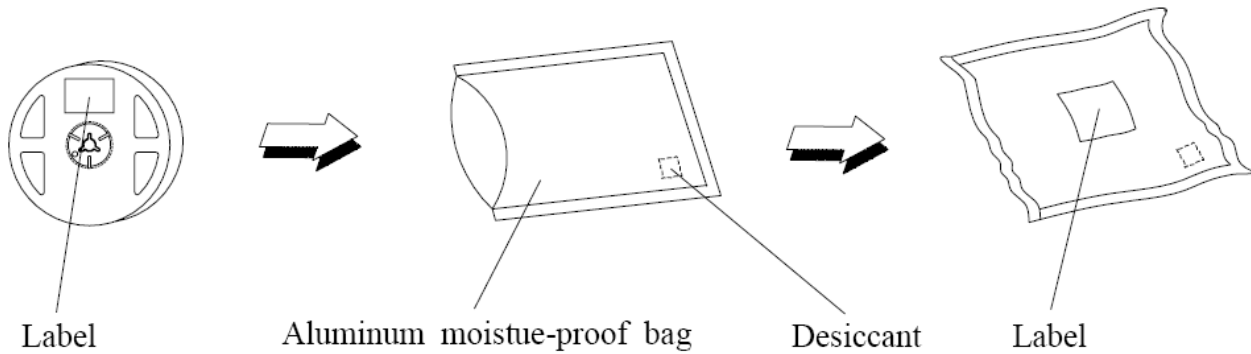
Product: QBLP600-RGB	Date: June 25, 2011	Page 5 of 7
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Labeling:



Part No: _____
 Customer P/N: _____
 Item: _____
 Q'ty: _____
 Vf: _____
 Iv: _____
 Wl: _____
 Date: _____

Made in China



Ordering Information:

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

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Revision History:

Description:	Revision #	Revision Date
New Release of QBLP600-RGB	V1.0	02/03/2011
Brightness Updates	V1.1	06/01/2011
Labeling update	V1.2	06/25/2011