

Feature:

- Package in tape and reel
- Ultra bright reflector type U LED
- InGaN technology for IB/IG/IW
- AlInGaP technology for R/AG/Y
- 120 degree viewing angle

Description:

This ultra bright white U LED has a height profile of 1.30mm. Combination of high brightness output and robust package, this LEDs is ideal for back lighting, architecture lighting, and industrial equipment lighting applications.

Application:

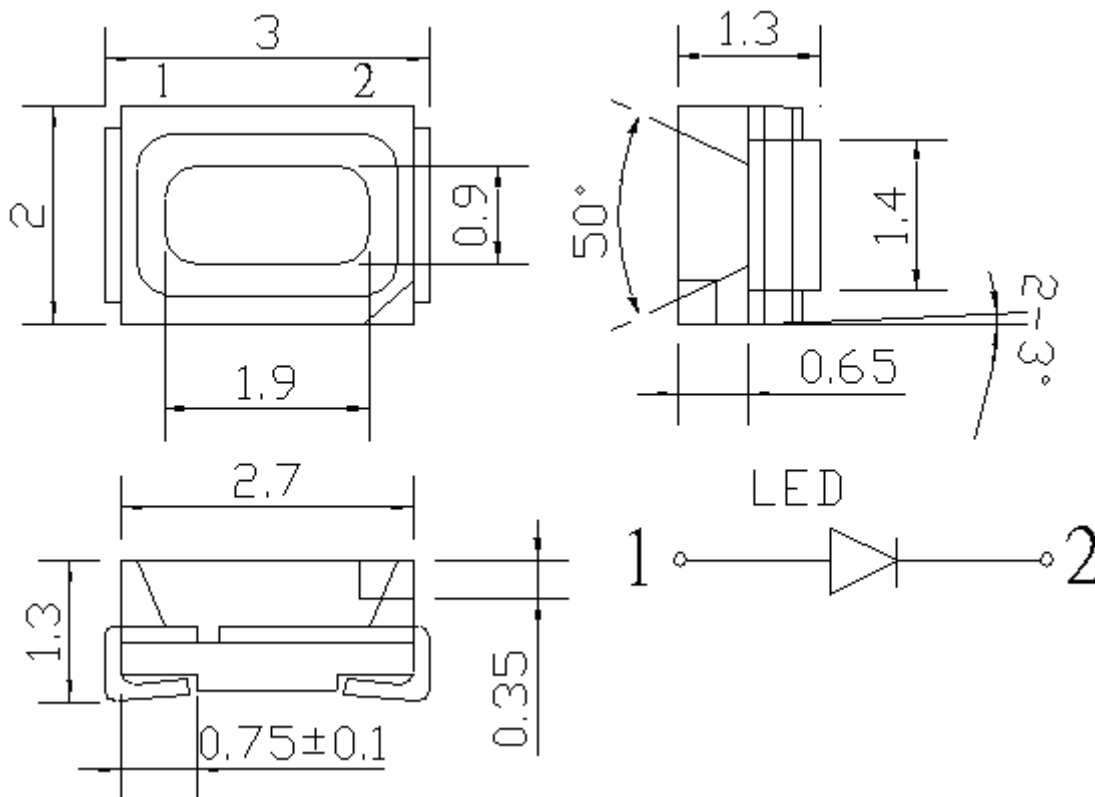
- Status indication
- Industrial equipment backlighting
- Architecture lighting

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.
QBLP676-IB	Blue	20	3.2	3.8	460	---	475	140	300
QBLP676-IG	True Green	20	3.2	3.8	515	---	535	450	900
QBLP676-R	Red	20	2.0	2.4	620	---	635	140	210
QBLP676-AG	Yellow Green	20	2.0	2.4	564	---	576	70	100
QBLP676-Y	Yellow	20	2.0	2.4	582	---	597	90	170
					Chromaticity				
					X		Y		
QBLP676-IW	White	20	3.2	3.8	0.3219	---	0.3381	1800	2250

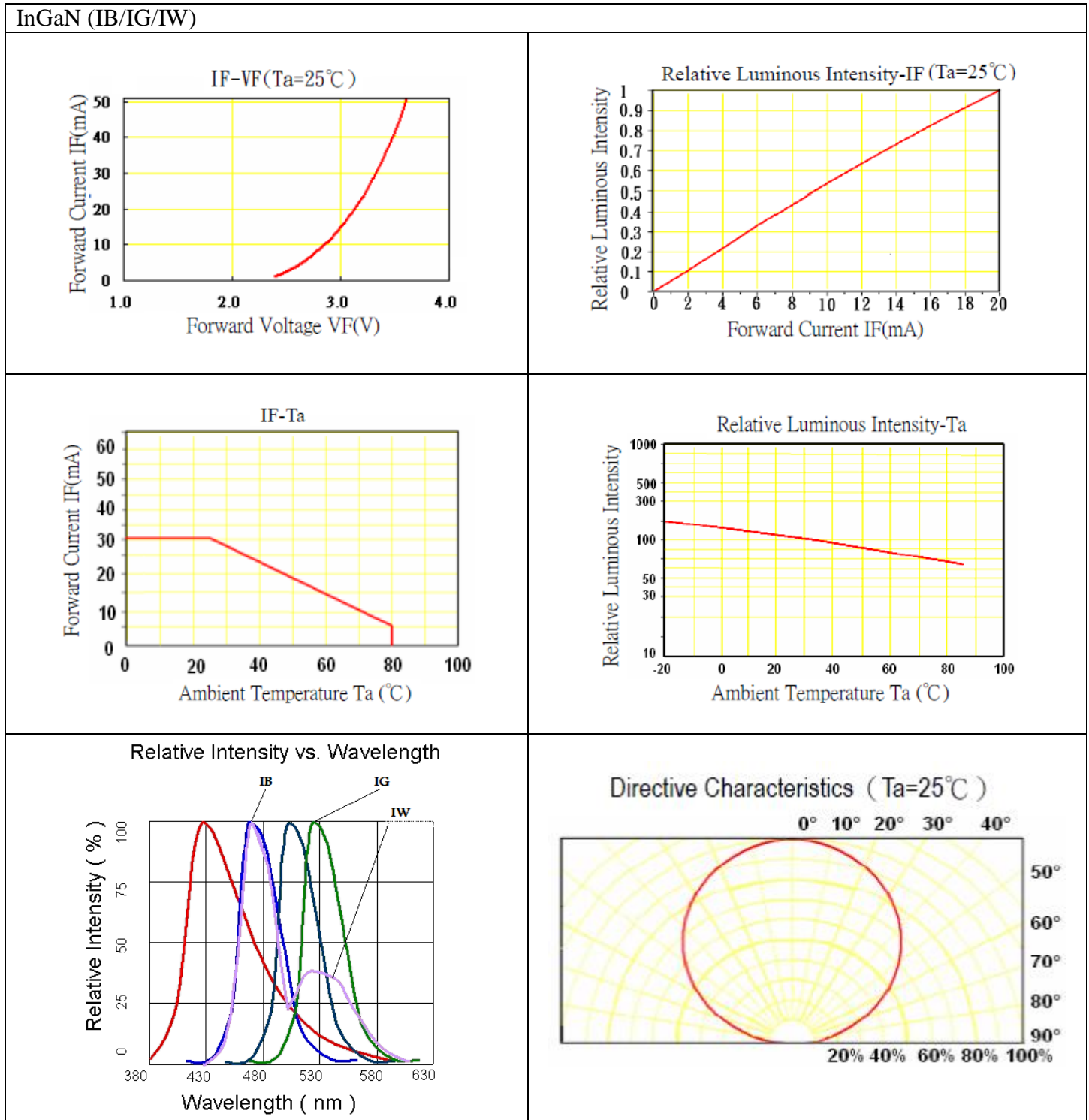
Absolute Maximum Rating

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/IW)	120	30	100	5	-30 - 80	-40 - 100	260
AllnGaP (R/AG/Y)	100	30	100	5	-30 - 80	-40 - 100	260

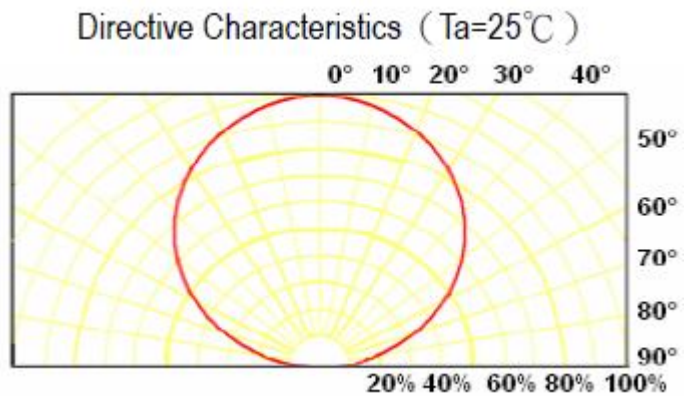
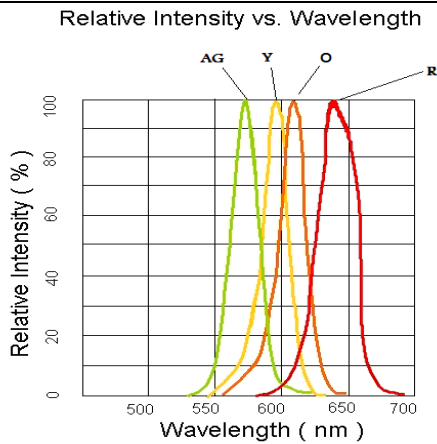
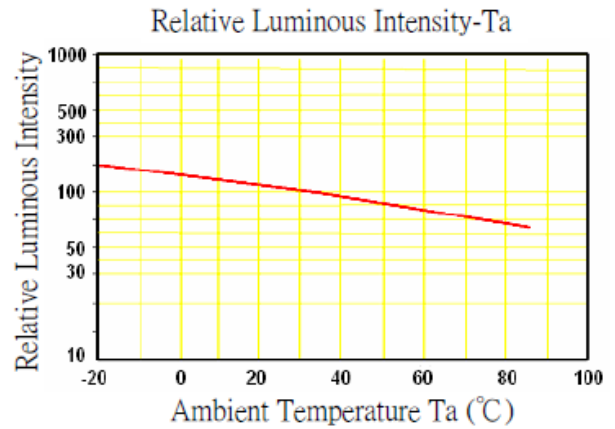
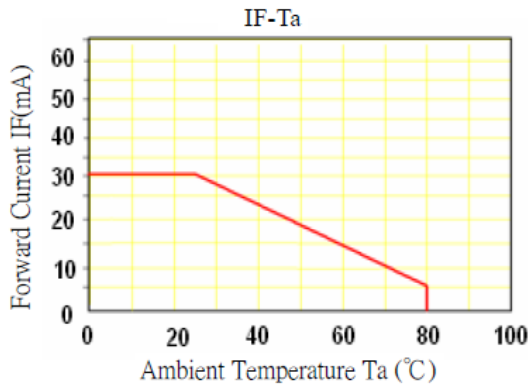
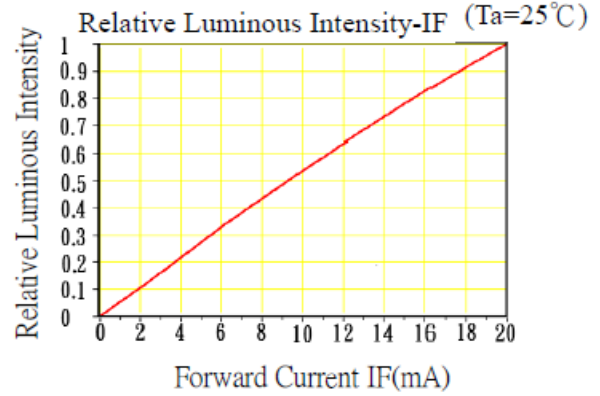
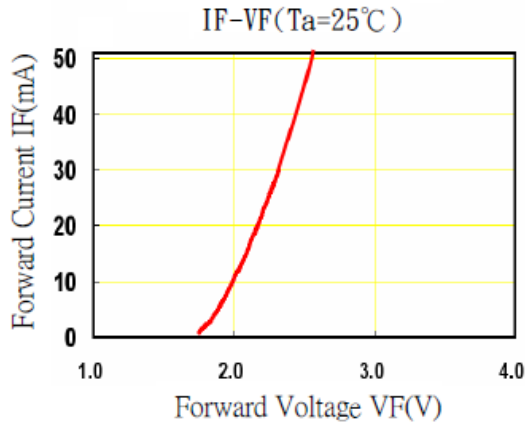
*Duty 1/10 @ 10KHz

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

Characteristic Curves:

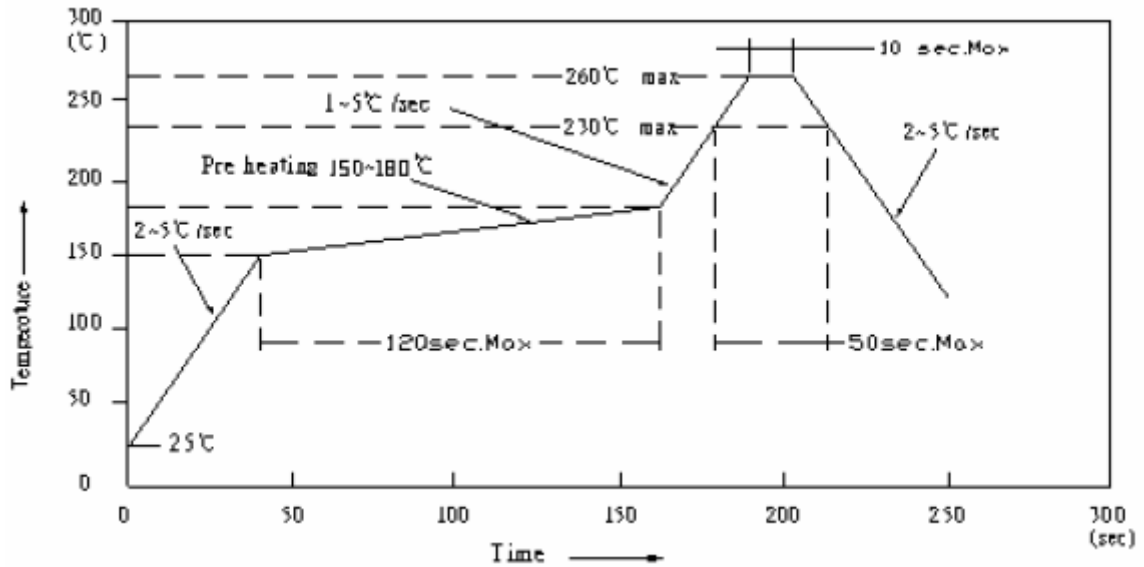


AllnGaP(R/AG/Y)

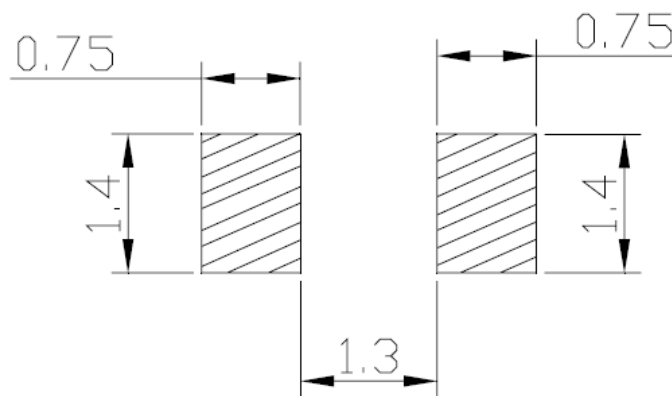


Solder Profile & Footprint:

- 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):



RECOMMEND PADLAYOUT



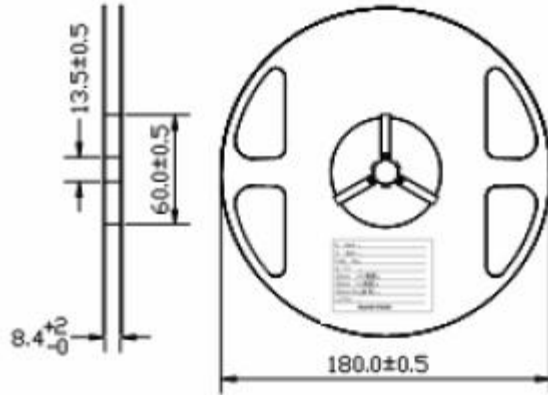
Units: mm

tolerance: +/- 0.1mm

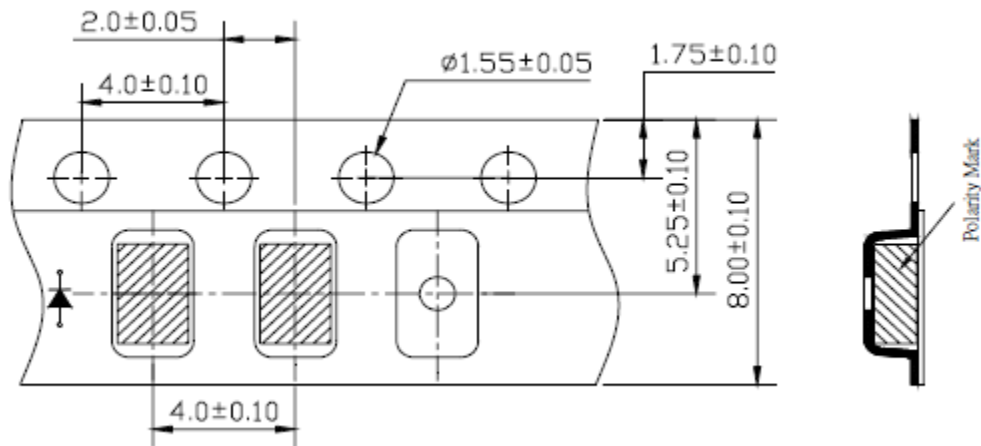
Product: QBLP676_series	Date: March 08, 2011	Page 5 of 9
	Version# 1.0	

Packing:

Reel Dimension:



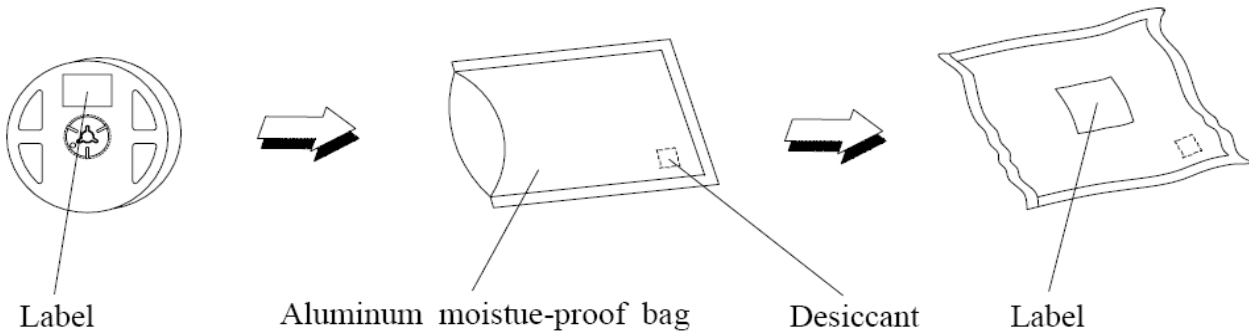
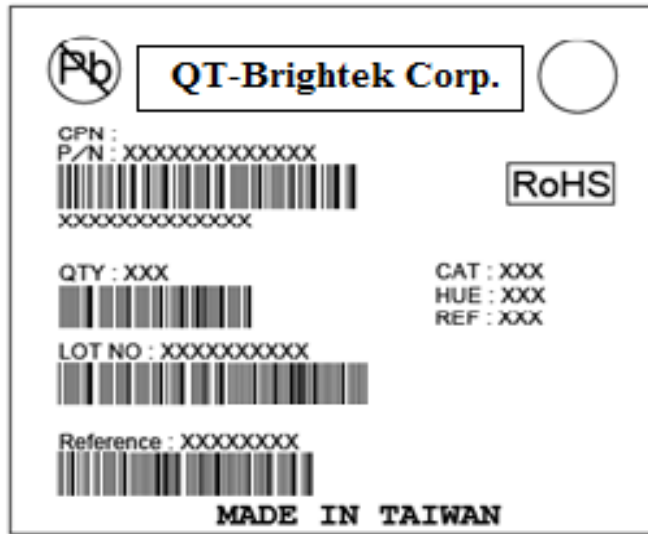
Tape Dimension:



(Unit in mm)

Product: QBLP676_series	Date: March 08, 2011	Page 6 of 9
	Version# 1.0	

Labeling:



Ordering Information:

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP670-IB	QBLP670-IB	Iv = 300 mcd Typ. @ 20mA/ Color = 460-475	2,000 units
QBLP670-IG	QBLP670-IG	Iv = 900 mcd Typ. @ 20mA/ Color = 515-535nm	2,000 units
QBLP670-R	QBLP670-R	Iv = 210 mcd Typ. @ 20mA/ Color = 620-635nm	2,000 units
QBLP670-AG	QBLP670-AG	Iv = 100 mcd Typ. @ 20mA/ Color = 564- 576nm	2,000 units
QBLP670-Y	QBLP670-Y	Iv = 170 mcd Typ. @ 20mA/ Color = 582 – 597nm	2,000 units
QBLP670-IW	QBLP670-IW	Iv = 2250 mcd Typ. @ 20mA/ Chromaticity: (X,Y)=(0.3219, 0.3381)	2,000 units

Revision History:

Description:	Revision #	Revision Date
New Release of QBLP676_series	V1.0	03/08/2011

Product: QBLP676_series	Date: March 08, 2011	Page 9 of 9
	Version# 1.0	