

**Feature:**

- Water Clear lens
- Packed in Bulk, available in tape/reel
- Super bright 3mm round type TH lamp
- InGaN technology for IB/IG/IW
- AllnGaP technology for R
- 30 °viewing angle
- XX= Color

**Description:**

These super bright 3mm round type TH lamps with 5.3 mm lens height are suitable for all applications requiring higher brightness.

**Application:**

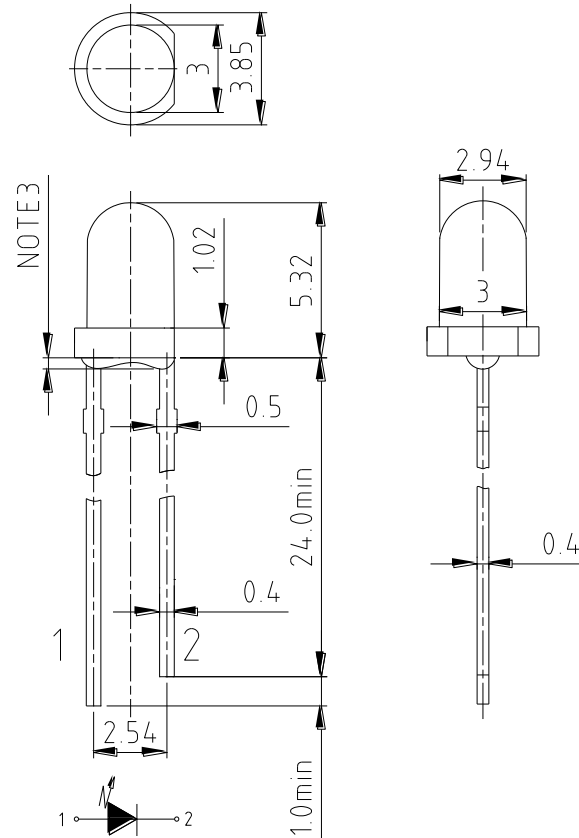
- General purpose indicator application
- Electronic signs and electronics board
- LED lighting

**Certification & Compliance:**

- TS16949
- ISO9001
- RoHS Compliant



**Dimension:**



Units: mm / tolerance = +/-0.25mm

**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.
QBL7IB30C	Blue	20	3.2	3.8	462	--	473	1300	2200
QBL7IG30C	True Green	20	3.2	3.8	520	--	530	10600	20000
QBL7R30C	Red	20	2.0	2.6	620	--	630	460	900
QBL7IW30C	White	20	3.2	3.8	--	X=0.285	--	2800	6200
						Y=0.271			

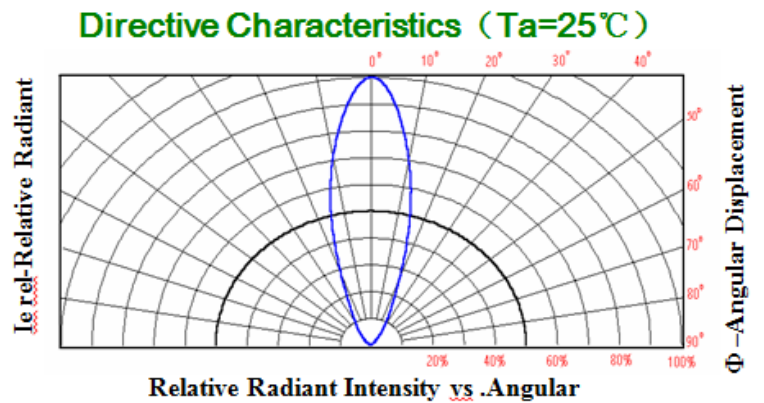
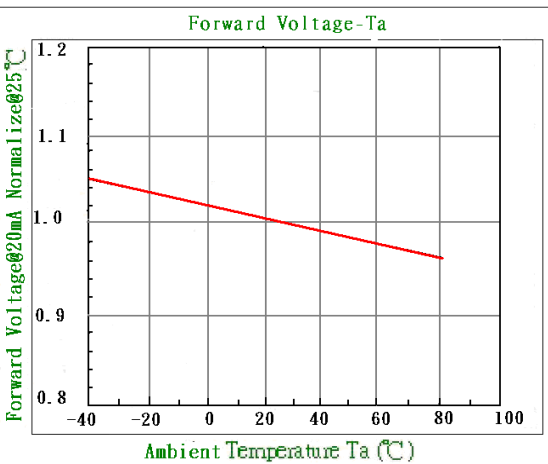
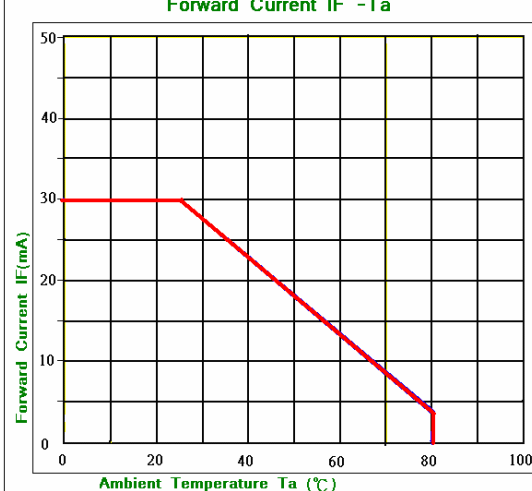
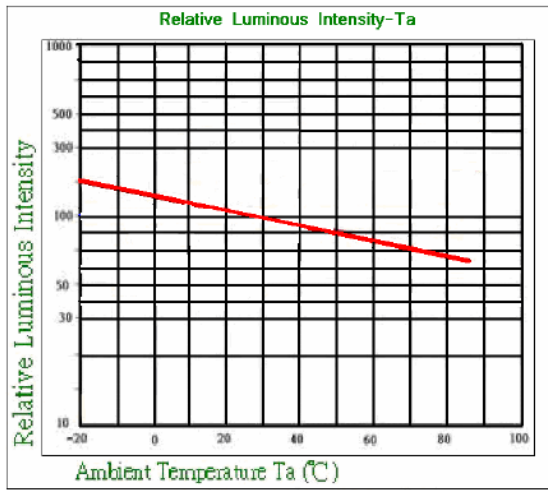
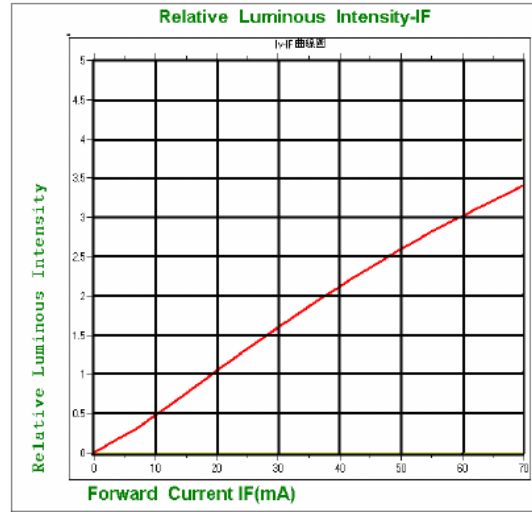
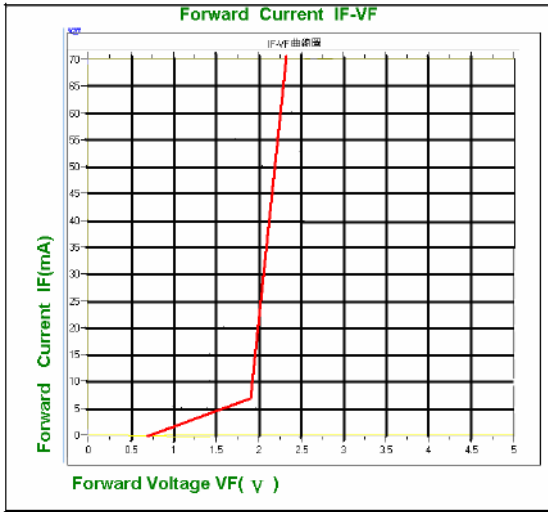
**Absolute Maximum Rating**

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)
InGaN	120	30	100	5	-30 to + 80	-40 to +100
AllnGaP	80	30	100	5	-30 to + 80	-40 to +100

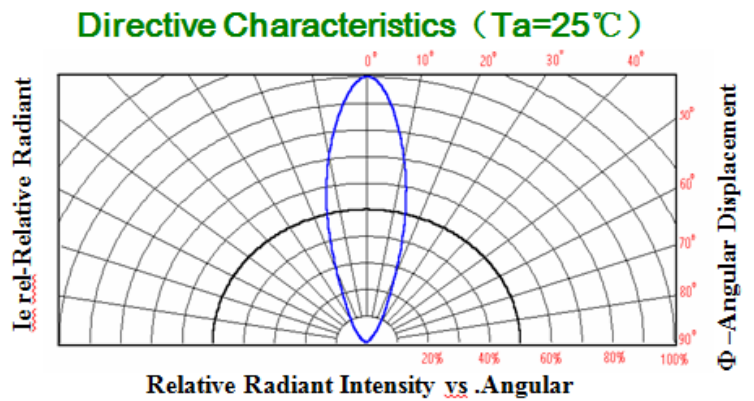
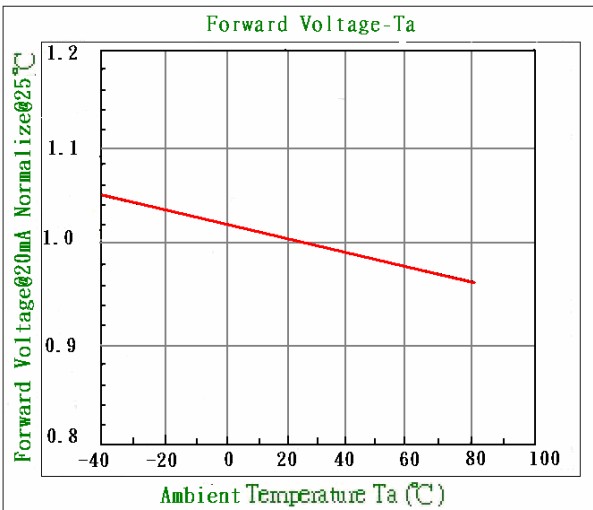
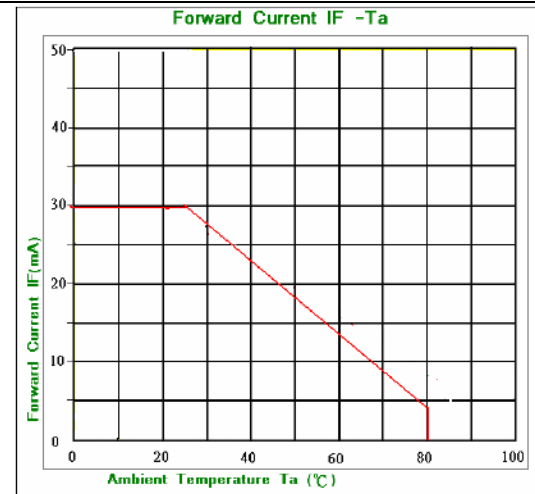
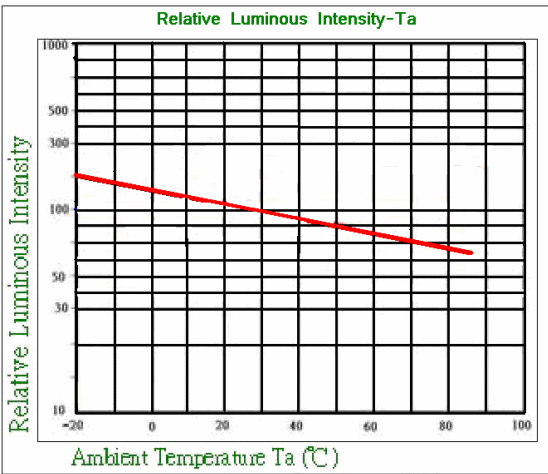
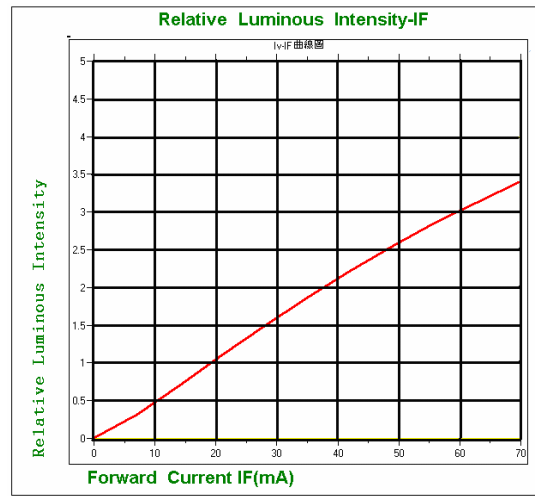
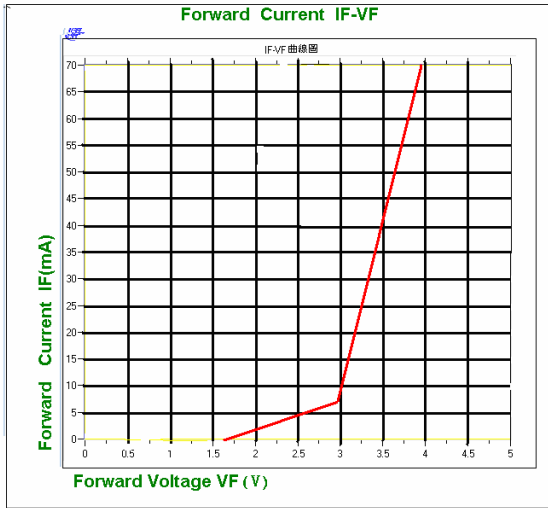
\*Duty 1/10 @ 10KHz

\*\* Wave Soldering for no more than 5 sec @ 260 °C

**Characteristic Curves for AlInGaP:**



**Characteristic Curves for InGaN:**



**Ordering Information:**

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL7IB30C	QBL7IB30C	Iv=2200mcd typ. @ I <sub>F</sub> =20mA	TBD
QBL7IG30C	QBL7IG30C	Iv=20000mcd typ. @ I <sub>F</sub> =20mA	TBD
QBL7R30C	QBL7R30C	Iv=900 mcd typ. @ I <sub>F</sub> =20mA	TBD
QBL7IW30C	QBL7IW30C	Iv=6200mcd typ. @ I <sub>F</sub> =20mA; (X,Y)=(0.285, 0.271)	TBD

**Revision History:**

Description:	Revision #	Revision Date
New Release of QBL7XX30C Series	V1.0	09/20/2010
Brightness/color updates	V1.1	06/25/2011