

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:

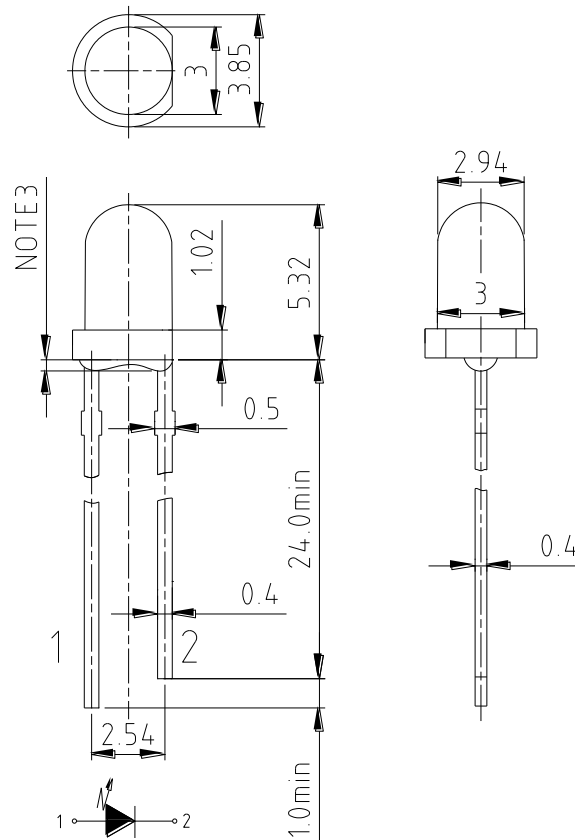
- General purpose indicator application
- Electronic signs and electronics board
- LED lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.25mm

Electrical / Optical Characteristic (T=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			I _V (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			

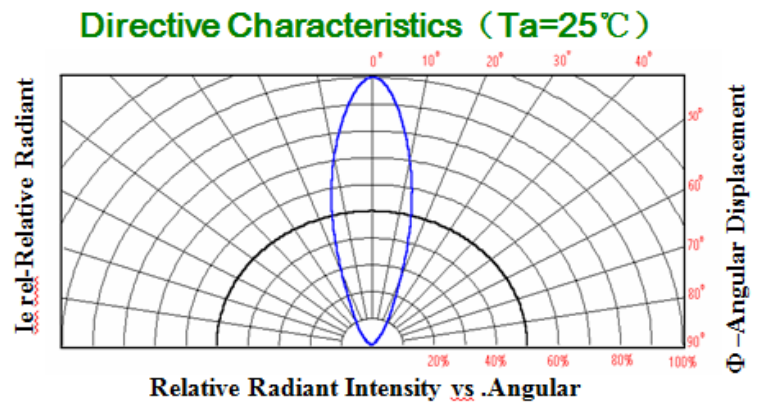
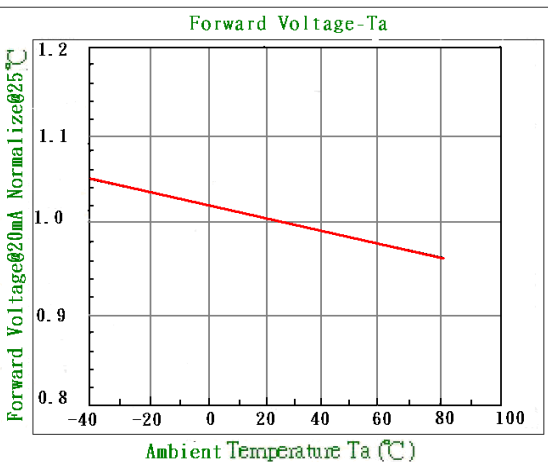
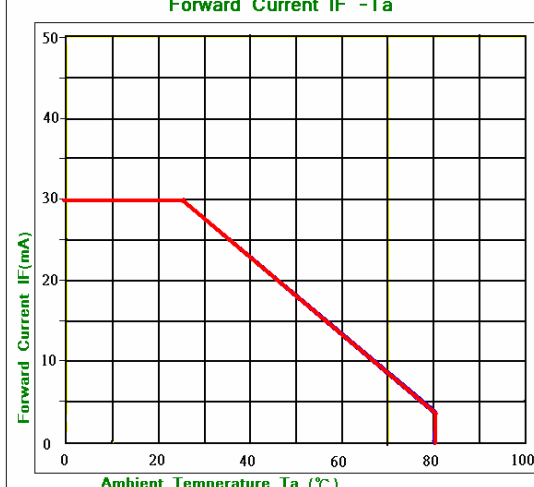
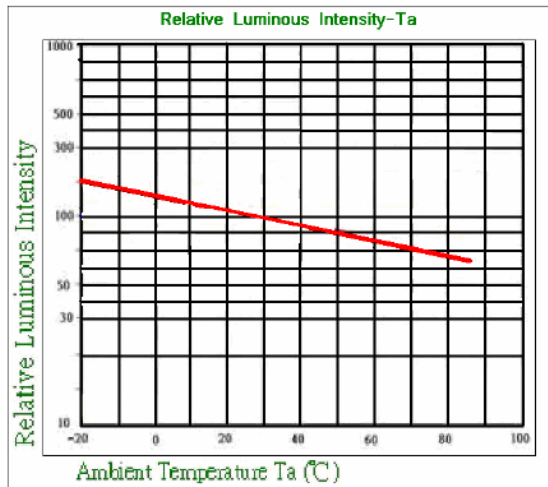
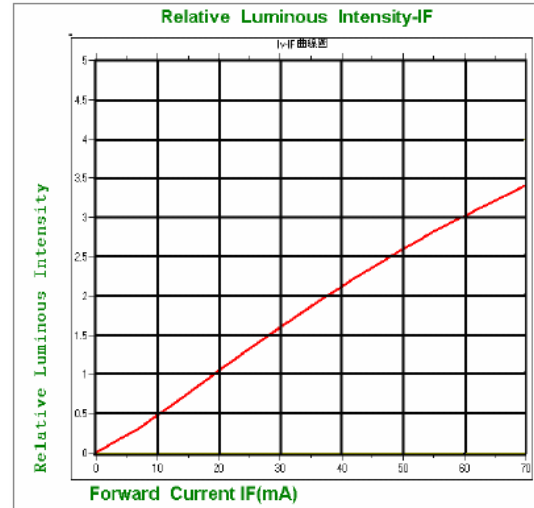
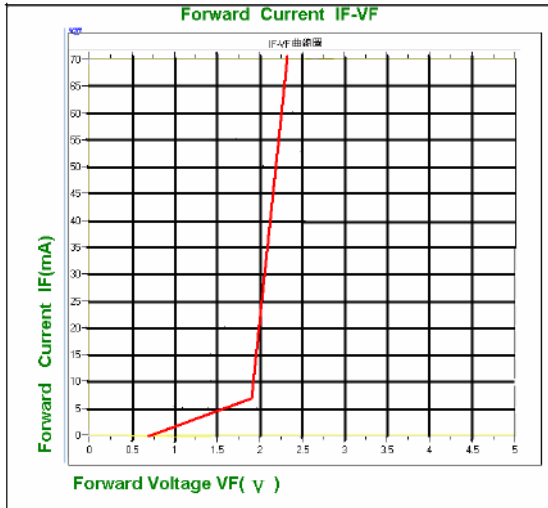
Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} *(mA)	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
InGaN	120	30	100	5	-30 to + 80	-40 to +100
AlInGaP	80	30	100	5	-30 to + 80	-40 to +100

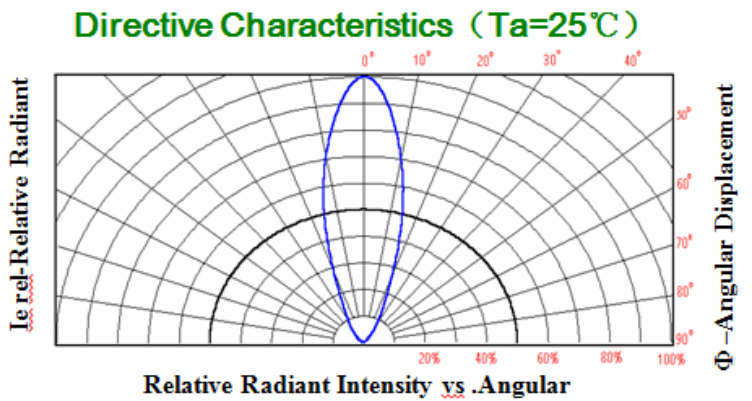
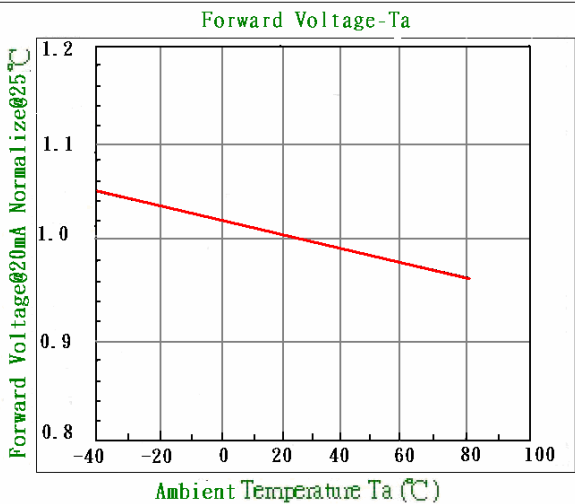
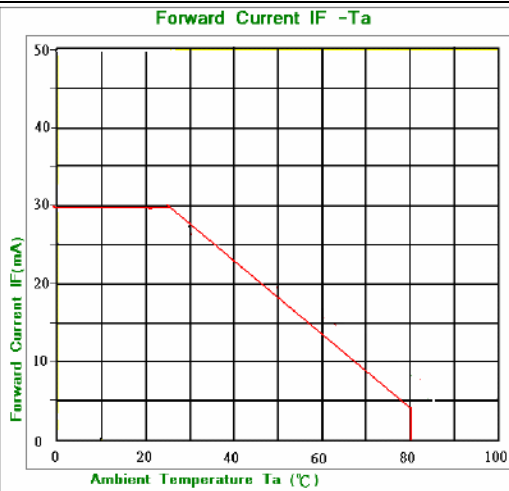
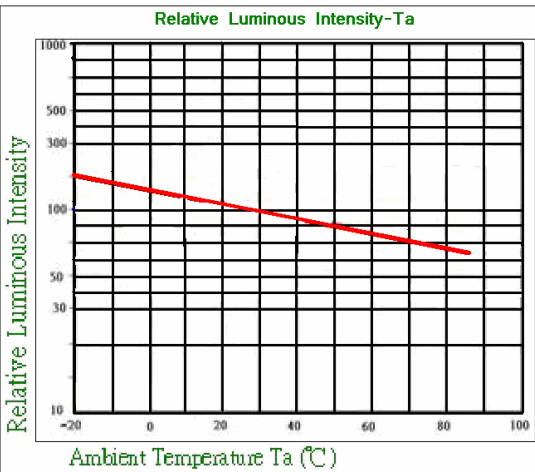
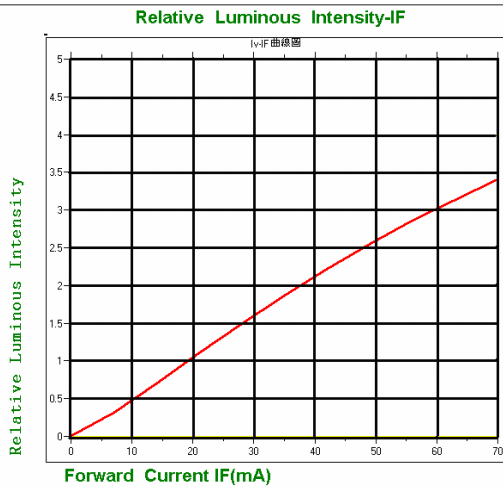
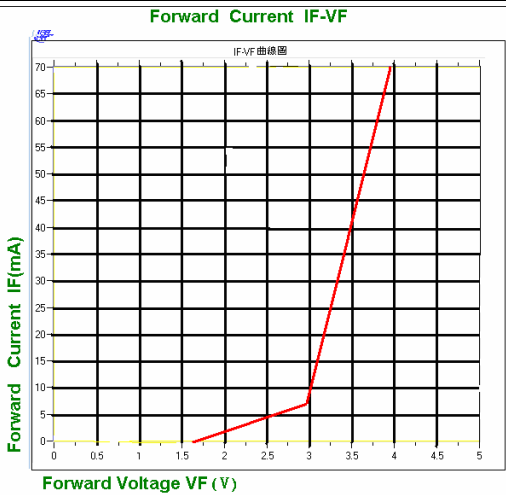
*Duty 1/10 @ 10KHz

** 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 _F =20mA	TBD
QBL7IG30C	QBL7IG30C	Iv=20000mcd typ. @ I _F =20mA	TBD
QBL7R30C	QBL7R30C	Iv=900 mcd typ. @ I _F =20mA	TBD
QBL7IW30C	QBL7IW30C	Iv=6200mcd typ. @ I _F =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