Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

QT-Brightek Lamp Series

3mm Round Lamp

Part No.: QBL7XX30C

XX: Color Code

Table of Contents:

Introduction

Feature:
- Water clear lens
- Packed in bulk
- 3mm round lamp
- AlInGaP technology for R/O/Y/AG
- InGaN technology for IG/IB
- Viewing angle: 30º typ.

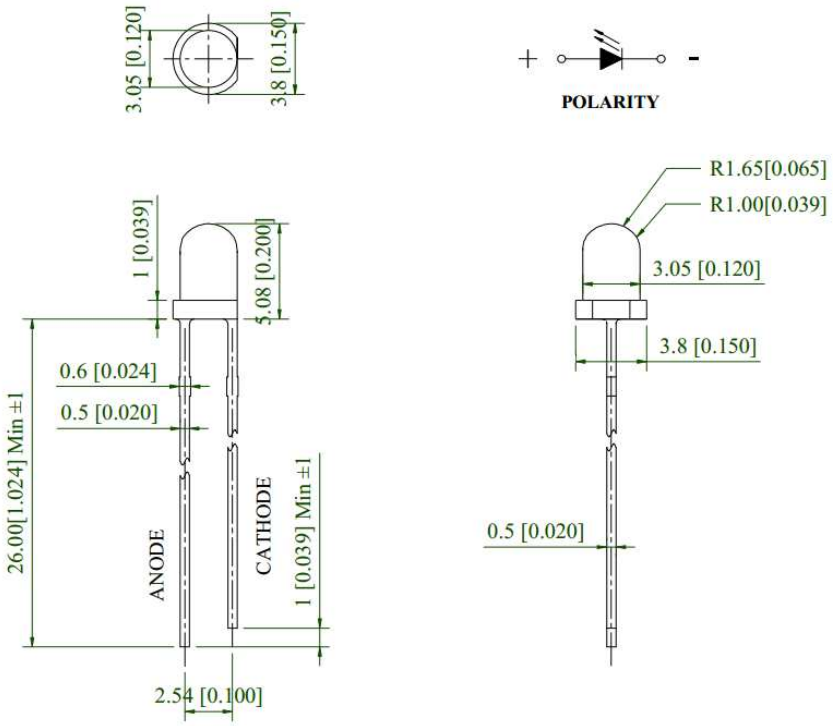
Description:

These bright 3mm round type lamps are suitable for all indicator applications such as electronic signs and electronic board indictor.

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

Certification & Compliance:
- TS16949
- ISO9001
- RoHS Compliant

Dimension:



Units: mm / general tolerance = +/-0.25mm unless otherwise specified

Electrical / Optical Characteristic (Ta=25°C)

Product	Color	I_F (mA)	V_F (V)		λ_D (nm)	I_V (mcd)	
			Typ.	Max.	Typ.	Min.	Typ.
QBL7R30C	Red	20	2.0	2.6	624	460	780
QBL7O30C	Orange	20	2.0	2.6	605	600	1000
QBL7Y30C	Yellow	20	2.0	2.6	590	270	460
QBL7AG30C	Yellow Green	20	2.0	2.6	573	160	270
QBL7IG30C	True Green	20	3.2	3.6	525	11000	18000
QBL7IB30C	Blue	20	3.2	3.6	470	2200	3800

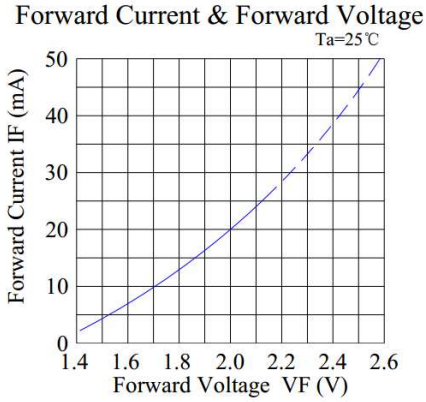
Absolute Maximum Rating

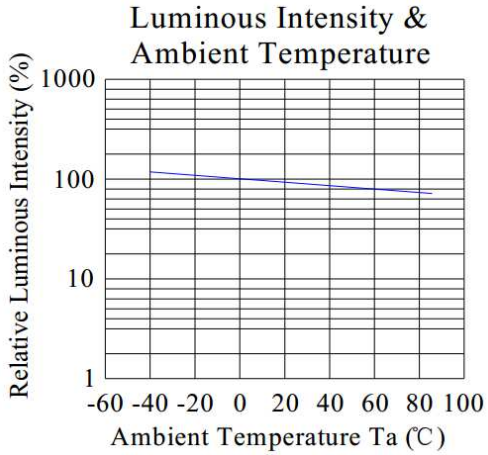
Material	P_d (mW)	I_F (mA)	I_{FP} (mA)*	V_R (V)	T_{OP} (°C)	T_{ST} (°C)	T_{SOL} (°C)**
AlInGaP	65	25	100	5	-40 to +85	-40 to +100	260
InGaN	95	25	100	5	-40 to +85	-40 to +100	260

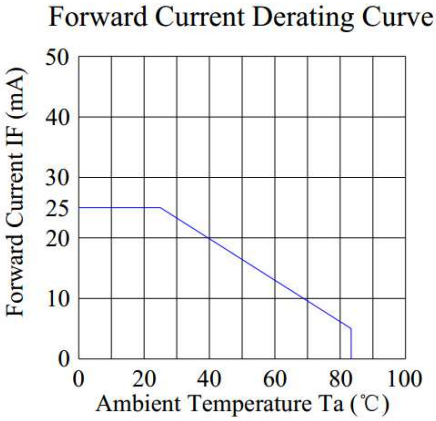
*1/10 Duty Cycle, 0.1ms Pulse Width
**Wave Soldering for no more than 3 sec @ 260 °C

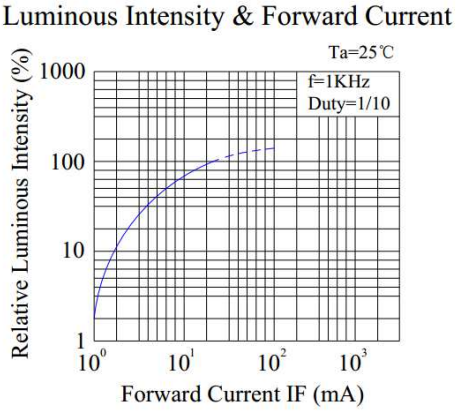
Characteristic Curves

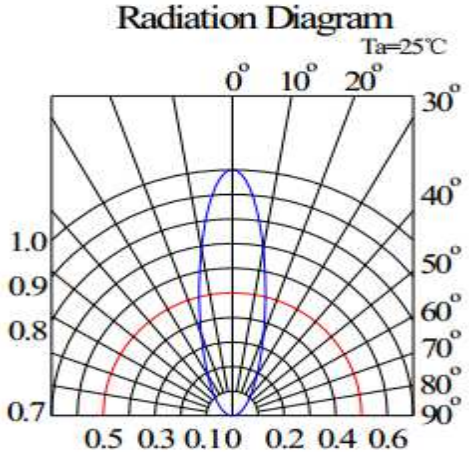
AlInGaP (R/AG/O/Y)





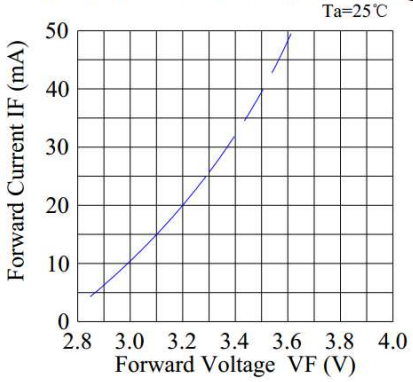




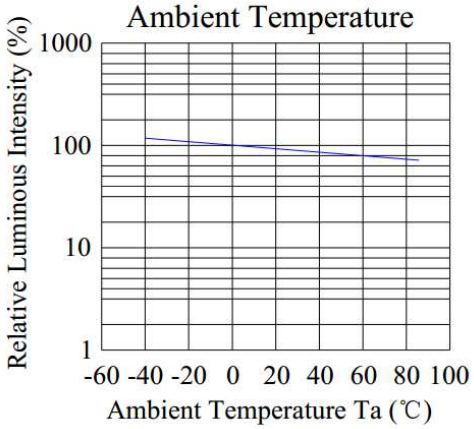


InGaN (IG/IB)

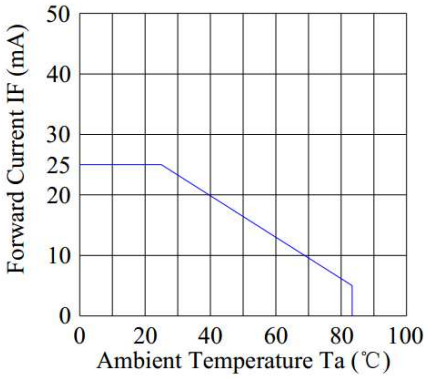
Forward Current & Forward Voltage



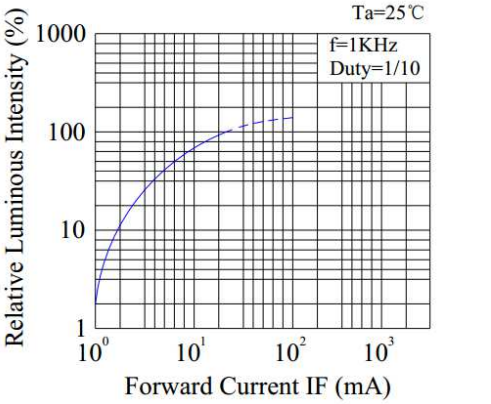
Luminous Intensity & Ambient Temperature



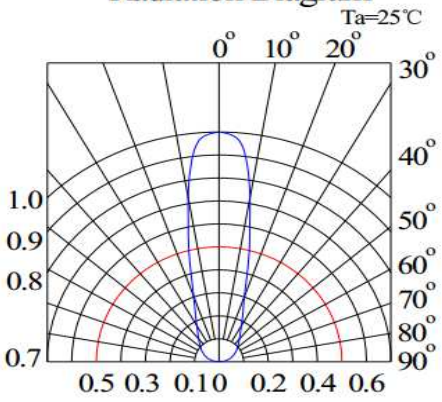
Forward Current Derating Curve



Luminous Intensity & Forward Current



Radiation Diagram



Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL7R30C	QBL7R30C	Iv=780mcd typ. @ 20mA, λ_D=624nm typ.	500pcs
QBL7O30C	QBL7O30C	Iv=1000mcd typ. @ 20mA, λ_D=605nm typ.	500pcs
QBL7Y30C	QBL7Y30C	Iv=460mcd typ. @ 20mA, λ_D=590nm typ.	500pcs
QBL7AG30C	QBL7AG30C	Iv=270mcd typ. @ 20mA, λ_D=573nm typ.	500pcs
QBL7IG30C	QBL7IG30C	Iv=18000mcd typ. @ 20mA, λ_D=525nm typ.	500pcs
QBL7IB30C	QBL7IB30C	Iv=3800mcd typ. @ 20mA, λ_D=470nm typ.	500pcs

Revision History

Description:	Revision #	Revision Date
New Release of QBL7XX30C Series	V1.0	09/20/2010
Brightness/color updates	V1.1	06/25/2011
Add CCT Chart/Table	V1.2	10/19/2011
Update format and spec	V1.3	05/09/2012
QBL7IW30C brightness/CCT	V1.4	06/04/2012
Amend Dimension	V1.5	08/02/2012
Added Red and Yellow/Amend Dimension	V1.6	08/13/2012
Update spec and dimension drawing	V2.0	11/22/2017

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1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.

2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.