

QT-Brightek Lamp with Housing Series

3mm Round Lamp with Housing

Part No.: QBL7XX80D-MP4B_series

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Introduction

Feature:

- Color Diffused lens
- Packaged in bulk pack
- 3mm round TH lamp with housing
- GaAsP technology for OA, YA
- GaP technology for YG
- AlGaAs technology for Deep red (SA)
- Viewing angle: 80° typ.

Description:

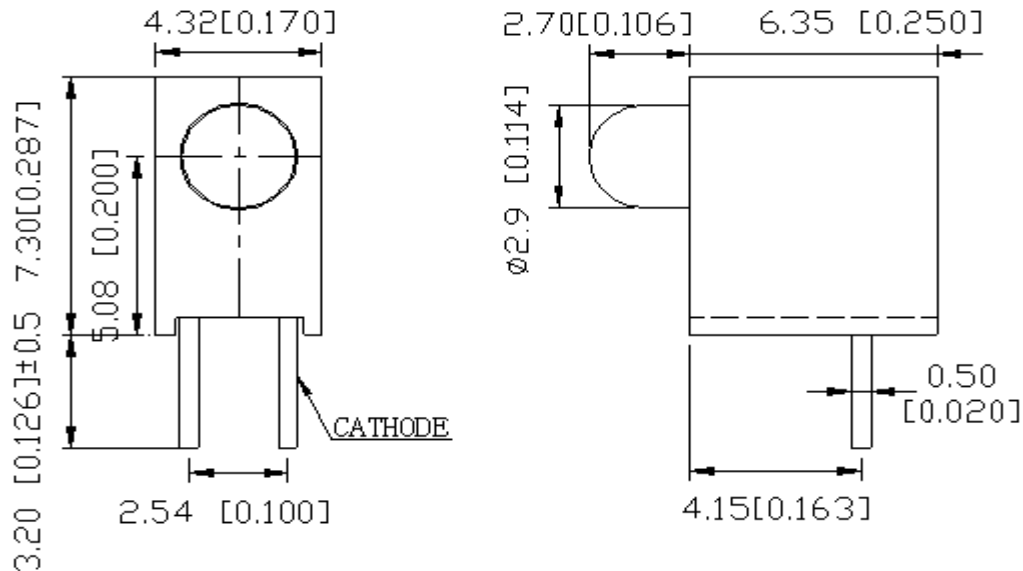
These 3mm round type lamps with housing is easy to mount on the panels.

Application:

- General purpose indicator application
- Electronic instrument

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant

**Dimension:**

Units: mm / general tolerance = +/-0.5mm 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.	Min.	Typ.	Max.	Min.	Typ.
QBL7SA80D-MP4B	Deep Red	20	1.8	2.6	--	640	--	20	45
QBL7OA80D-MP4B	Orange	20	2.0	2.6	--	603	--	13	30
QBL7YA80D-MP4B	Yellow	20	2.0	2.6	--	588	--	13	20
QBL7YG80D-MP4B	GaP Green	20	2.2	2.6	--	570	--	13	30

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)**
AlGaAs	60	25	100	5	-40 to +80	-40 to +85	260
GaAsP	78	30	100	5	-40 to +80	-40 to +85	260
GaP	78	30	100	5	-40 to +80	-40 to +85	260

*Duty=0.1, 0.1ms Pulse Width

**Wave Soldering for no more than 3 sec @ 260 °C

Note:

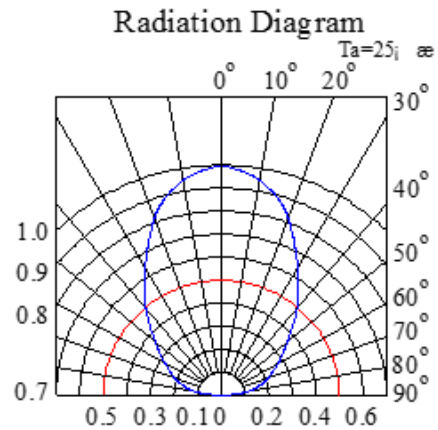
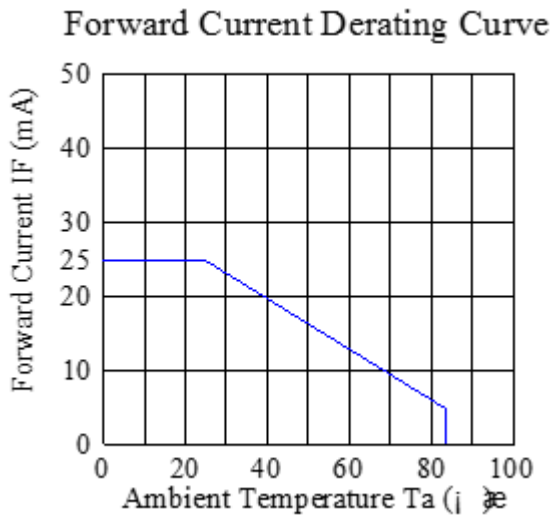
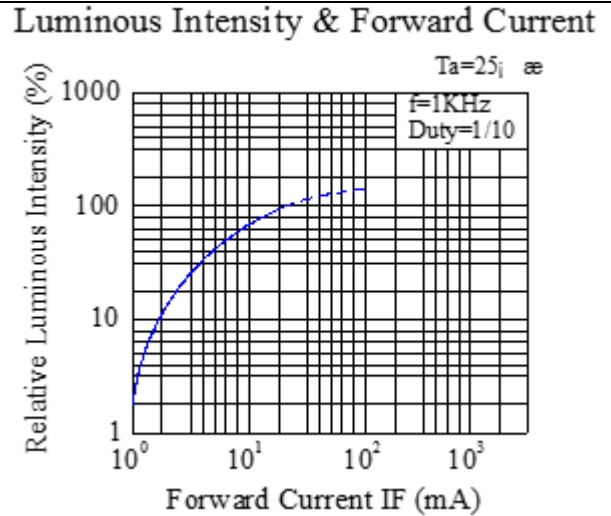
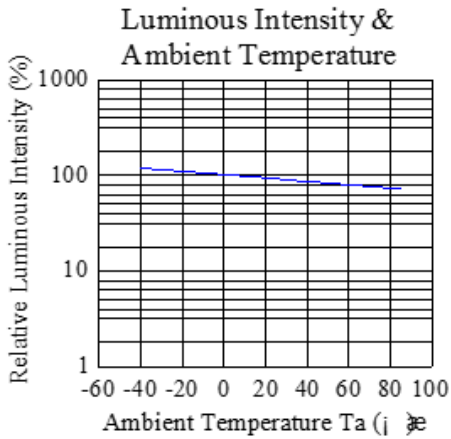
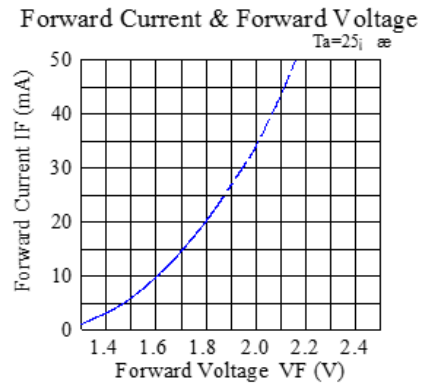
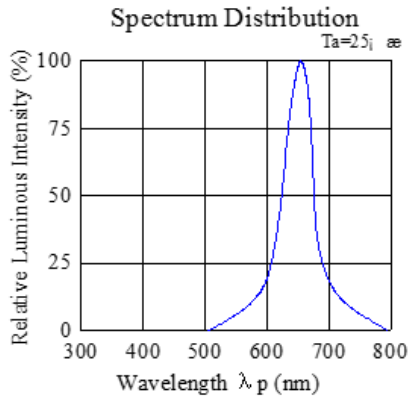
Tolerance of measurement of forward voltage: ±0.1V

Tolerance of measurement of luminous intensity: ±15%

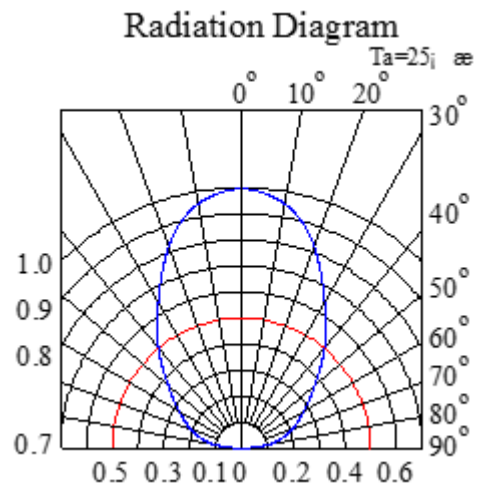
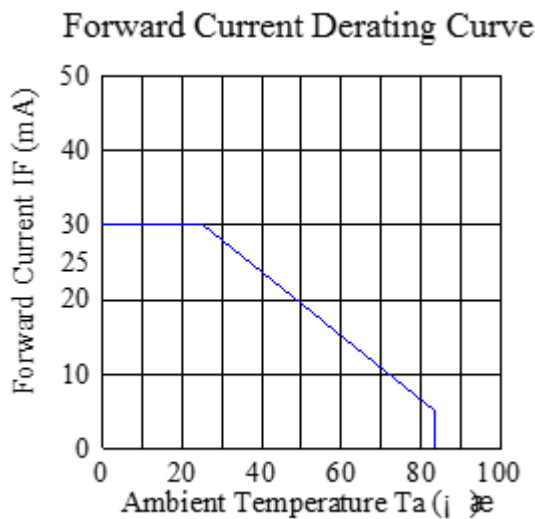
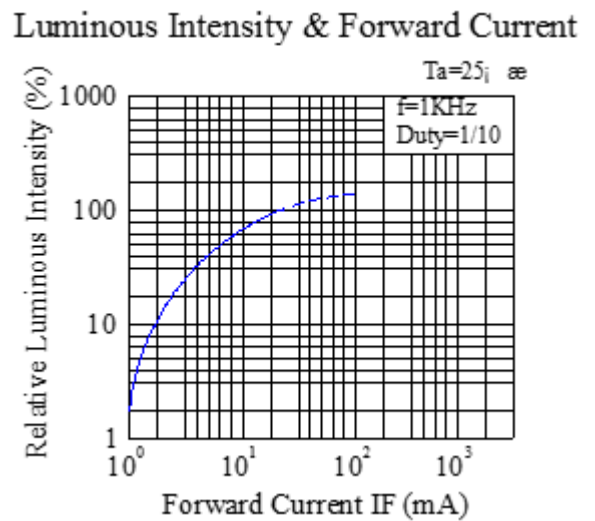
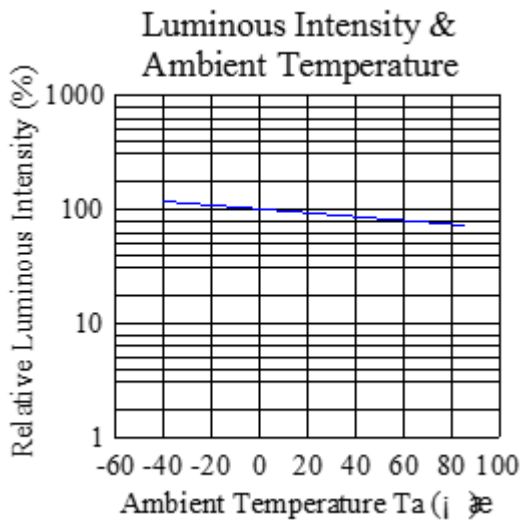
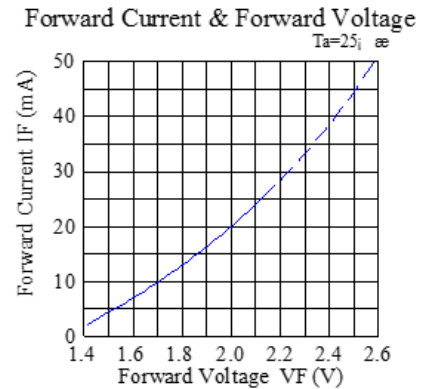
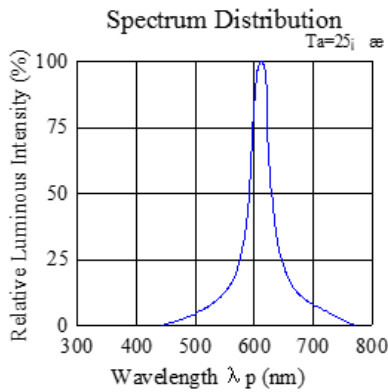
Tolerance of measurement of dominant wavelength: ±2nm

Characteristic Curves

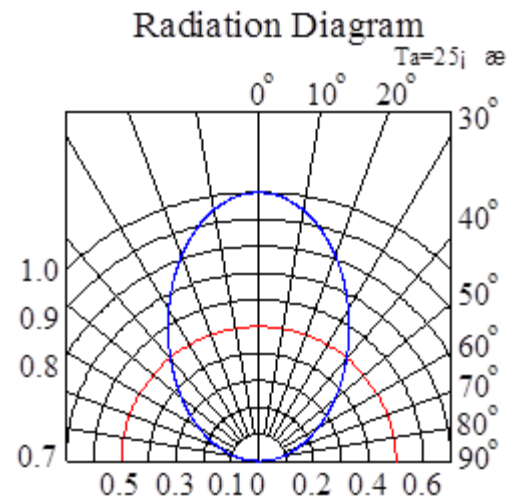
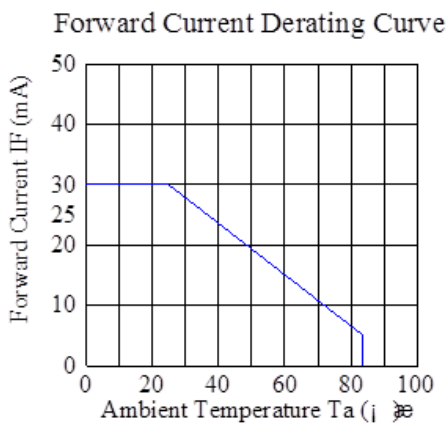
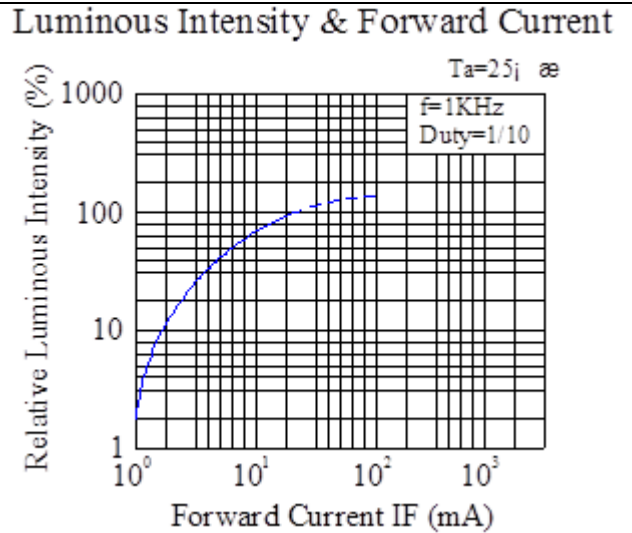
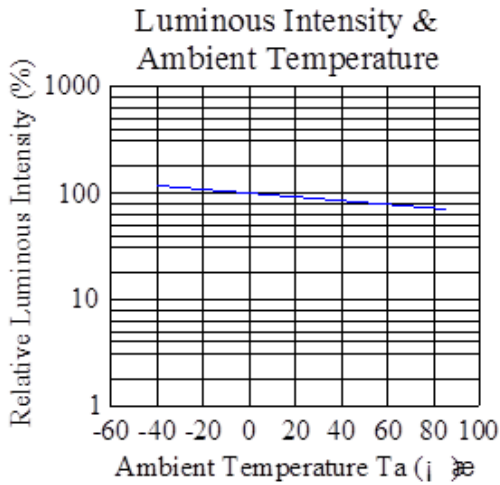
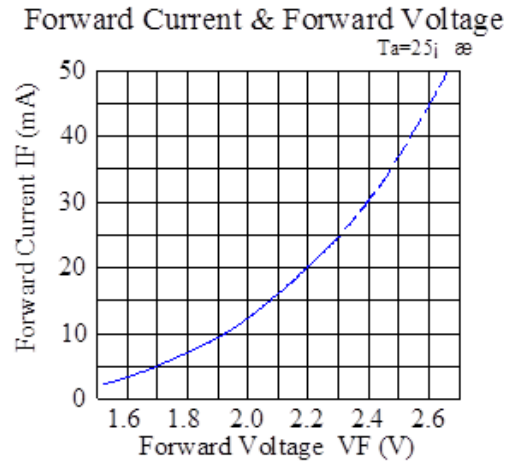
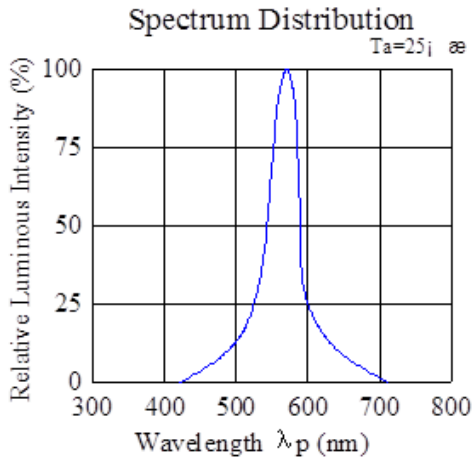
AlGaAs Deep Red



GaAsP Orange



GaP Yellow-Green



Labeling

Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

Vf: _____

Iv: _____

WI: _____

Date: _____

Made in China**Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL7SA80D-MP4B	QBL7SA80D-MP4B	Iv=45mcd typ. @ 20mA, λ _D =640nm typ.	500
QBL7OA80D-MP4B	QBL7OA80D-MP4B	Iv=30mcd typ. @ 20mA, λ _D =603nm typ.	500
QBL7YA80D-MP4B	QBL7YA80D-MP4B	Iv=20mcd typ. @ 20mA, λ _D =588nm typ.	500
QBL7YG80D-MP4B	QBL7YG80D-MP4B	Iv=30mcd typ. @ 20mA, λ _D =570nm typ.	500

Revision History

Description:	Revision #	Revision Date
New Release of QBL7XX80D-MP4B_series	V1.0	06/16/2016

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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.