

QT-Brightek Lamp with Housing Series
5mm Round Bi-color Lamp with Housing
Part No.: QBL8XXXX60D-MP6_series

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Introduction

Feature:

- White Diffused lens
- Packaged in bulk pack
- 5mm round TH lamp with housing
- GaAsP technology for Yellow, Red
- GaP technology for Yellow-Green
- Viewing angle: 60° typ.

Description:

These 5mm round type lamps with housing is easy to mount on the panels.

Application:

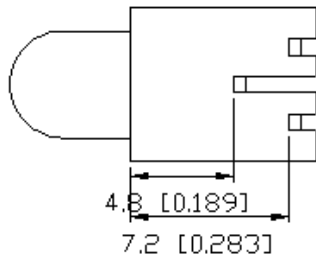
- General purpose indicator application
- Electronic instrument

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant

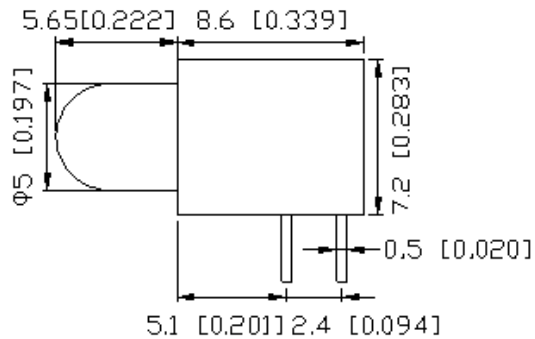
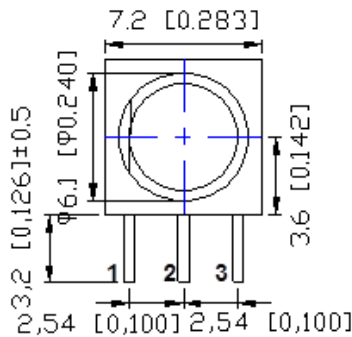


Dimension:



Note:

1. First Color Anode
2. Common Cathode
3. Second Color Anode



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.
QBL8RAYG60D-MP6	GaAsP Red	20	2.0	2.6	--	630	--	9	20
	GaP Green	20	2.2	2.6	--	570	--	13	30
QBL8RAYA60D-MP6	GaAsP Red	20	2.0	2.6	--	630	--	9	20
	Yellow	20	2.0	2.6	--	588	--	9	20
QBL8YGYA60D-MP6	GaP Green	20	2.2	2.6	--	570	--	13	30
	Yellow	20	2.0	2.6	--	588	--	9	20

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:

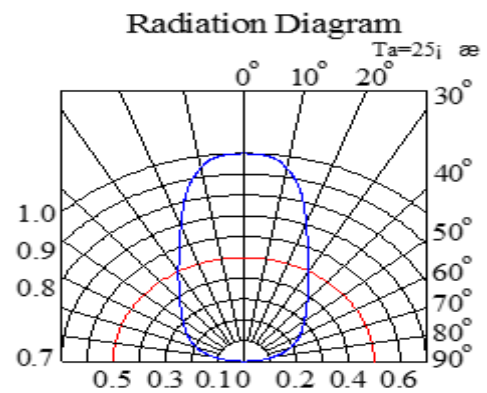
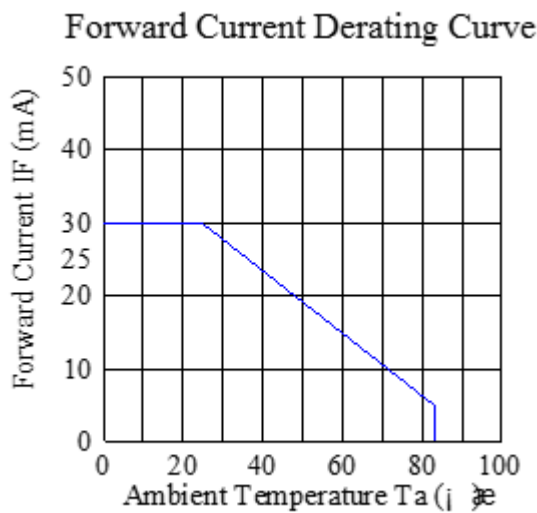
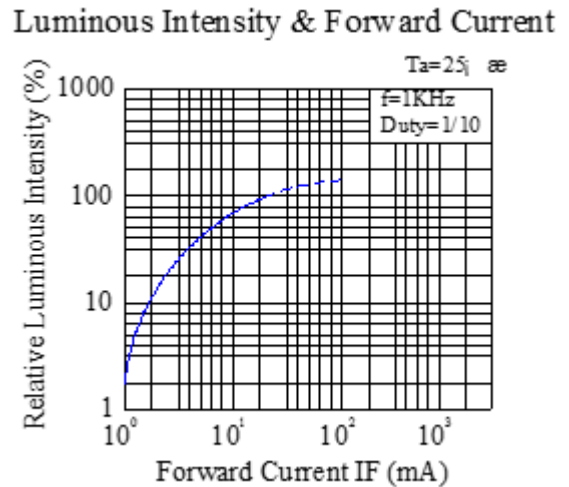
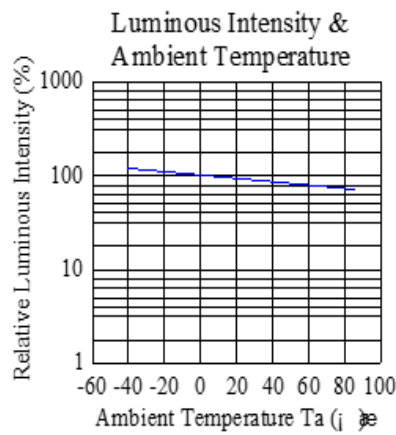
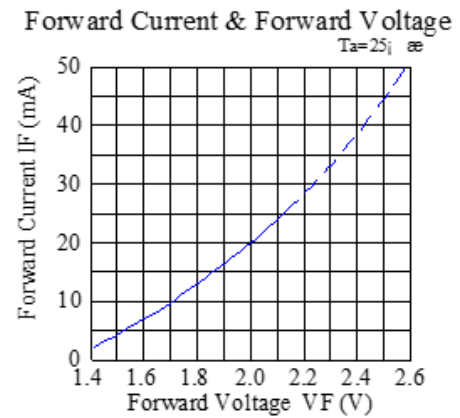
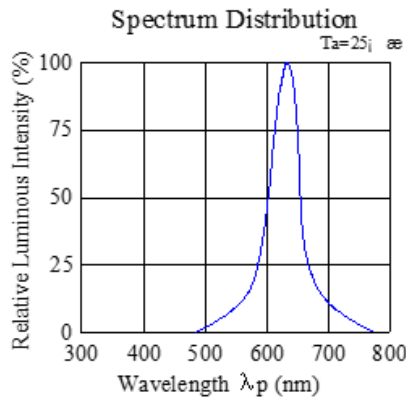
Tolerance of measurement of forward voltage: ±0.1V

Tolerance of measurement of luminous intensity: ±15%

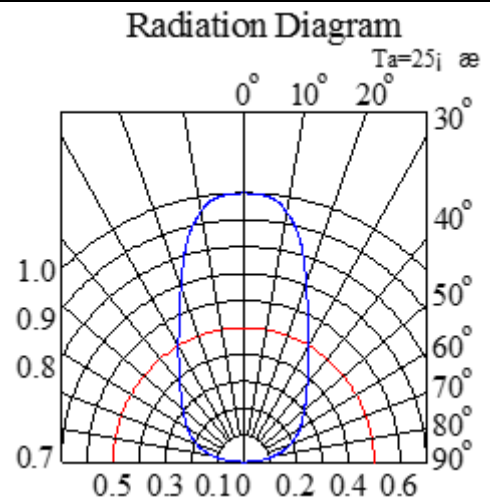
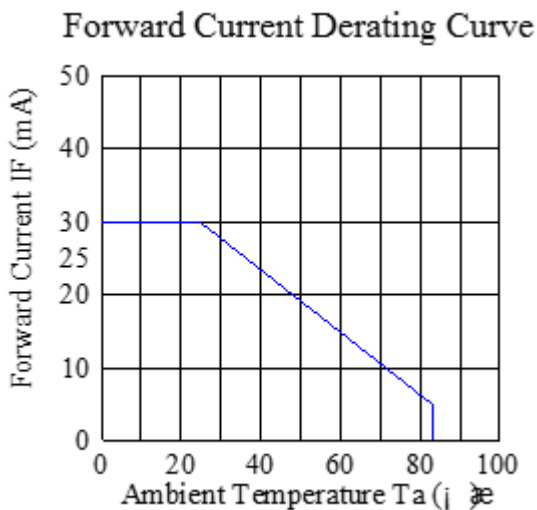
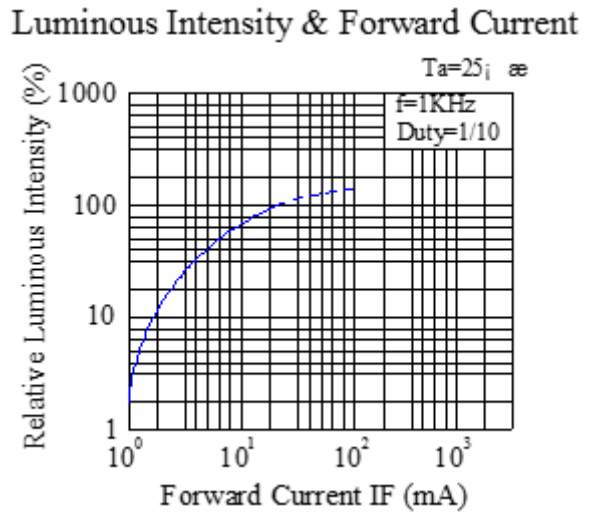
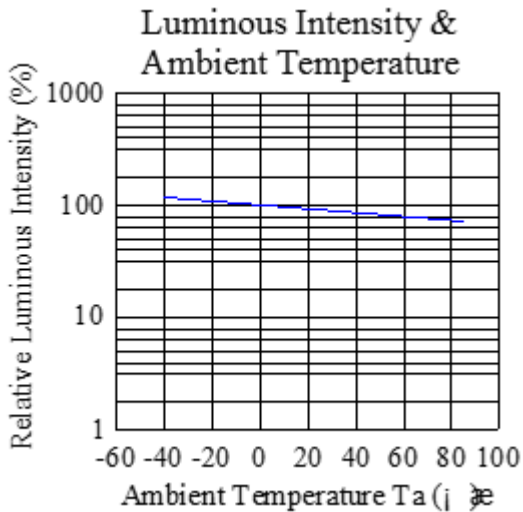
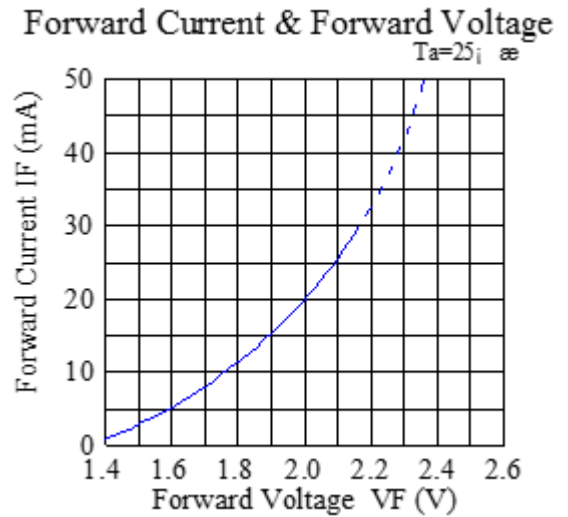
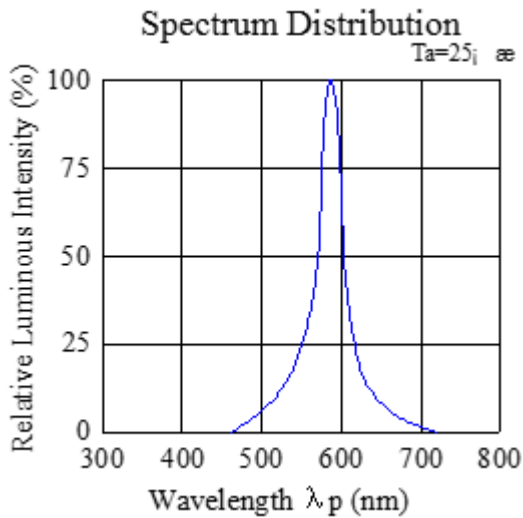
Tolerance of measurement of dominant wavelength: ±2nm

Characteristic Curves

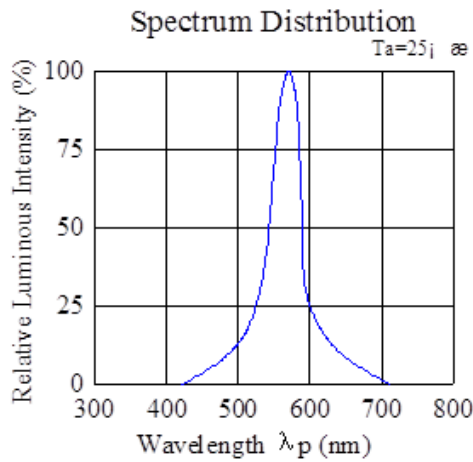
GaAsP Red



GaAsP Yellow

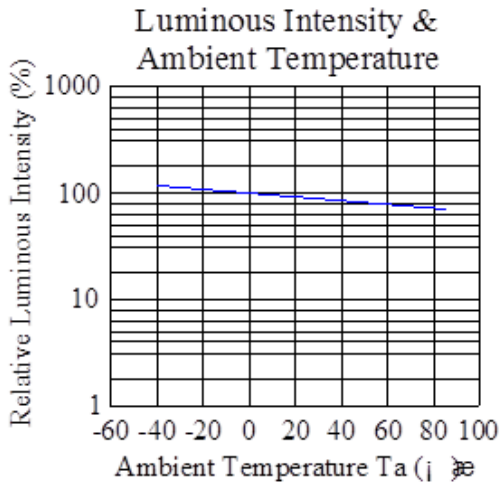
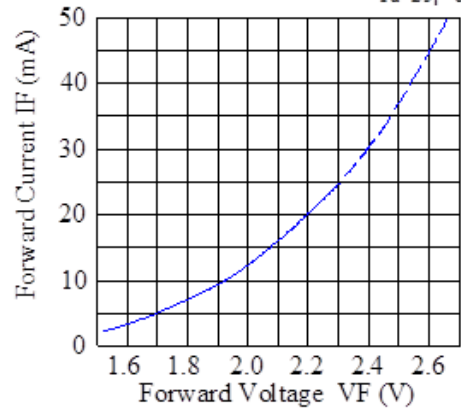


GaP Yellow-Green



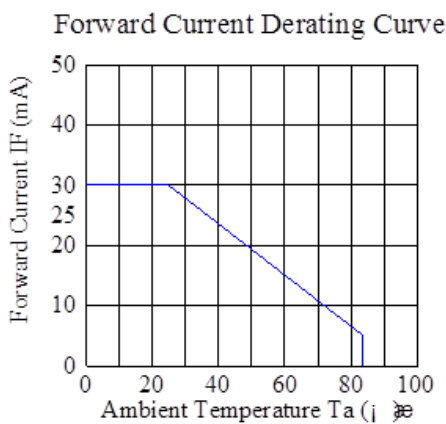
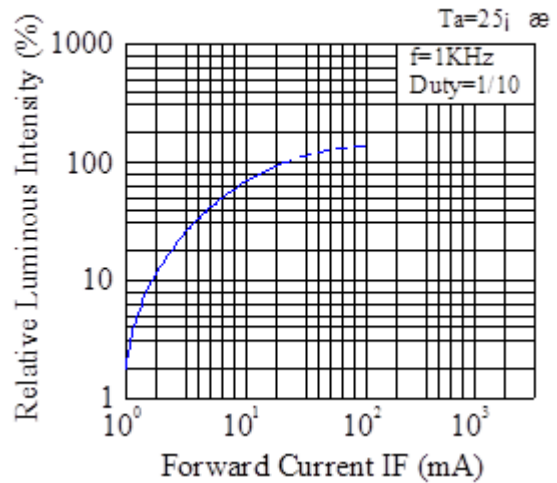
Forward Current & Forward Voltage

$T_a=25j \text{ } \text{\textcircled{R}}$



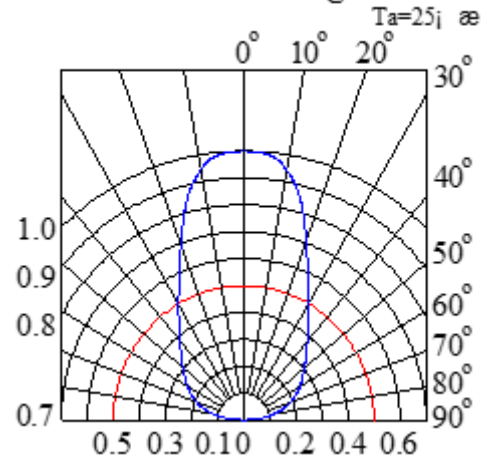
Luminous Intensity & Forward Current

$T_a=25j \text{ } \text{\textcircled{R}}$



Radiation Diagram

$T_a=25j \text{ } \text{\textcircled{R}}$



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
QBL8RAYG60D-MP6	QBL8RAYG60D-MP6	Iv=13mcd typ. @ 20mA, $\lambda_D=630\text{nm}$ typ.; Iv=20mcd typ. @ 20mA, $\lambda_D=570\text{nm}$ typ.	500
QBL8RAYA60D-MP6	QBL8RAYA60D-MP6	Iv=13mcd typ. @ 20mA, $\lambda_D=630\text{nm}$ typ.; Iv=13mcd typ. @ 20mA, $\lambda_D=588\text{nm}$ typ.	500
QBL8YGYA100D-MP6	QBL8YGYA100D-MP6	Iv=20mcd typ. @ 20mA, $\lambda_D=570\text{nm}$ typ.; Iv=13mcd typ. @ 20mA, $\lambda_D=588\text{nm}$ typ.	500

Revision History

Description:	Revision #	Revision Date
New Release of QBL8XXXX60D-MP6_series	V1.0	06/24/2016

Disclaimer

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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.