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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

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: 60º typ.

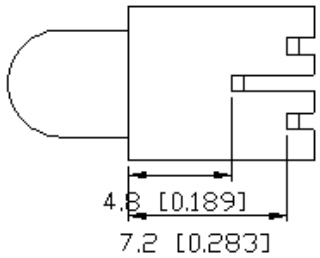
Description:

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

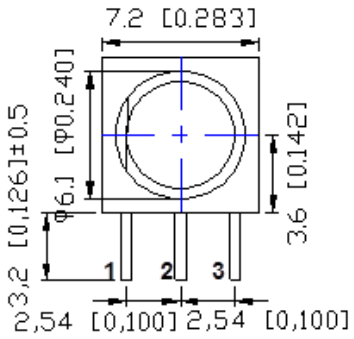
Application:
- General purpose indicator application
- Electronic instrument

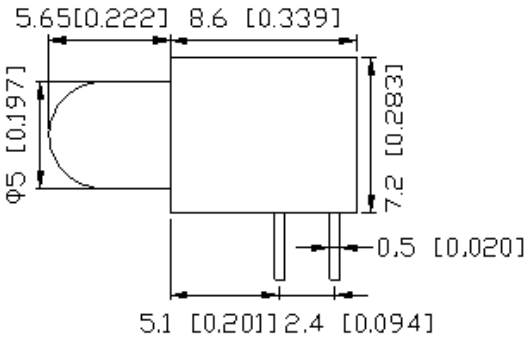
Certification & Compliance:
- TS16949
- ISO9001
- RoHS Compliant

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

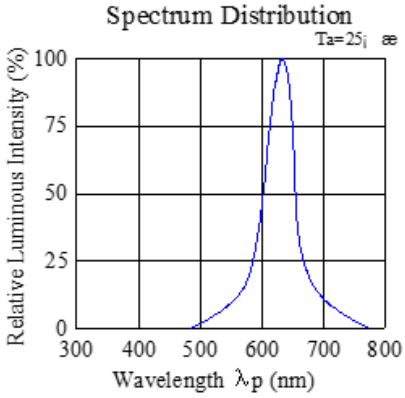
Material	P_d (mW)	I_F (mA)	I_{FP} (mA)*	V_R (V)	T_{OP} (°C)	T_{ST} (°C)	T_{SOL} (°C)**
AlGaAs	60	25	100	5	-40 to +80	-40 to +85	260
GaAsP	78	30	100	5	-40 to +80	-40 to +85	260
GaP	78	30	100	5	-40 to +80	-40 to +85	260

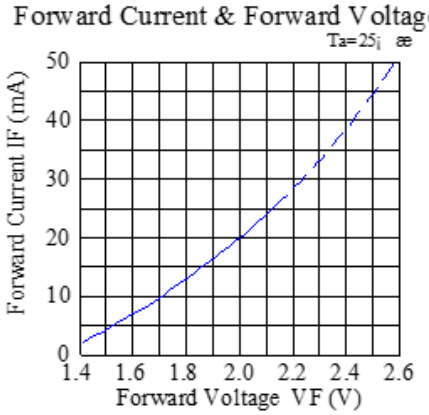
*Duty=0.1, 0.1ms Pulse Width
**Wave Soldering for no more than 3 sec @ 260 °C

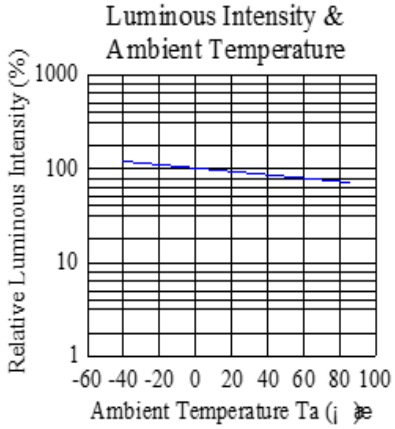
Note:
Tolerance of measurement of forward voltage: ±0.1V
Tolerance of measurement of luminous intensity: ±15%
Tolerance of measurement of dominant wavelength: ±2nm

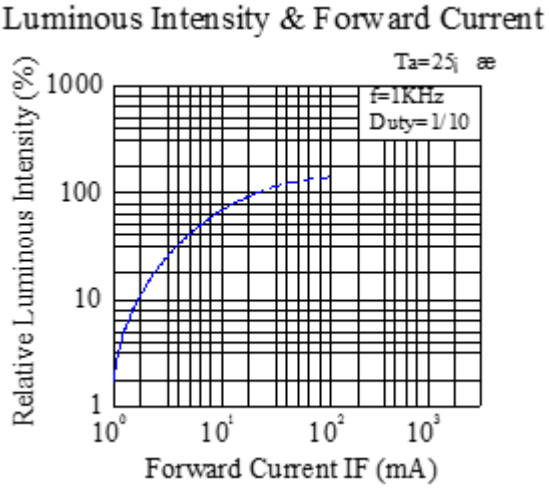
Characteristic Curves

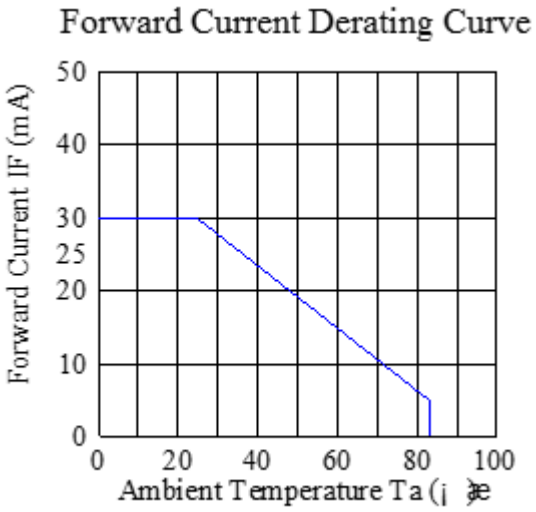
GaAsP Red

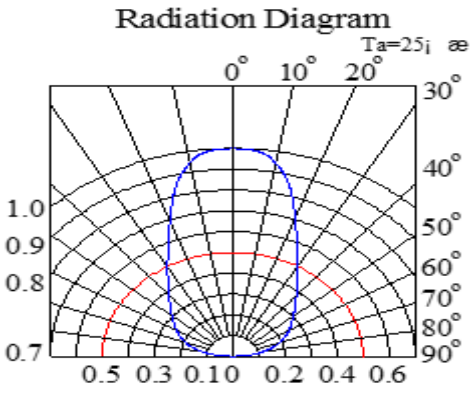






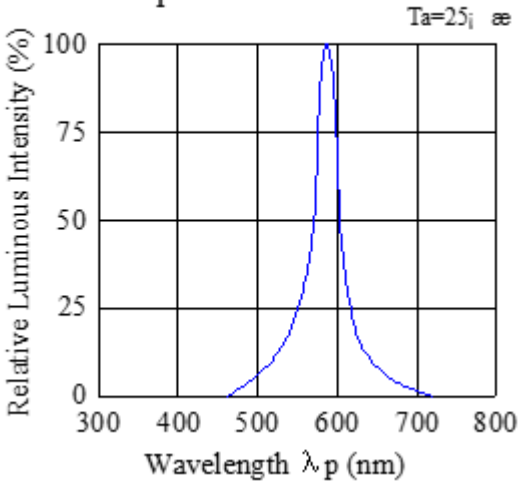




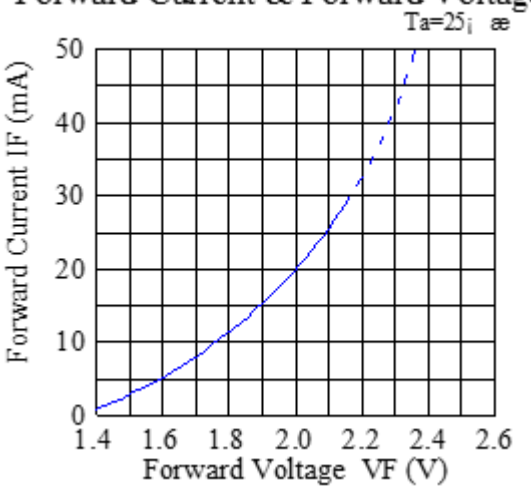


GaAsP Yellow

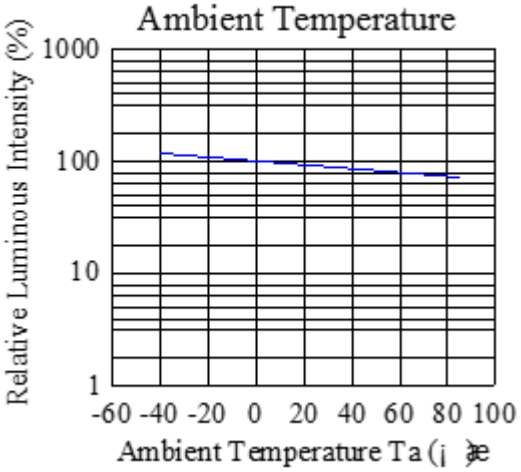
Spectrum Distribution



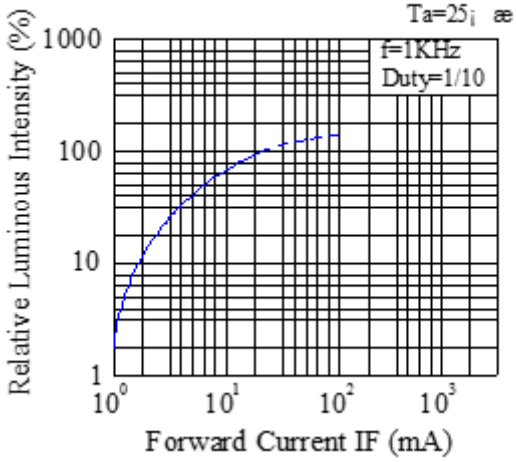
Forward Current & Forward Voltage



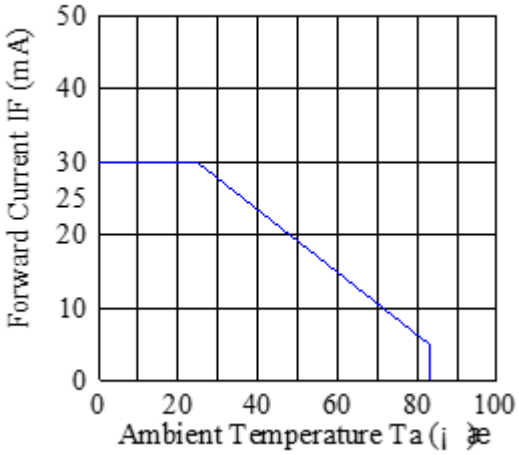
Luminous Intensity & Ambient Temperature



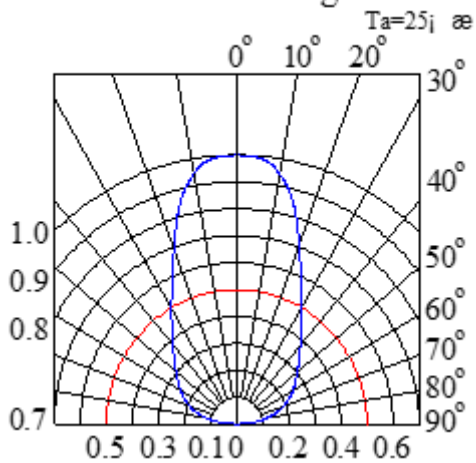
Luminous Intensity & Forward Current



Forward Current Derating Curve

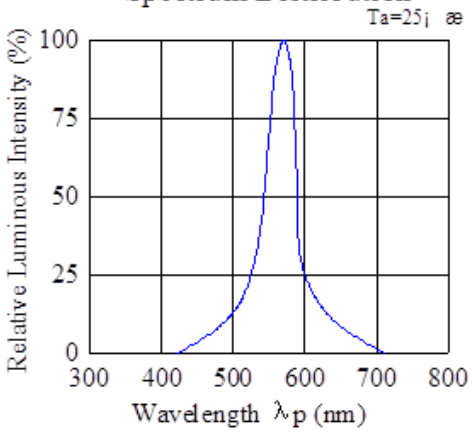


Radiation Diagram

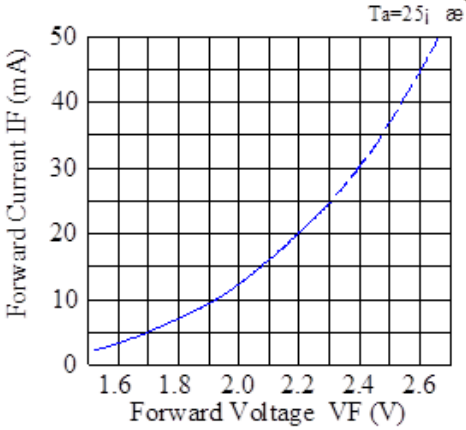


GaP Yellow-Green

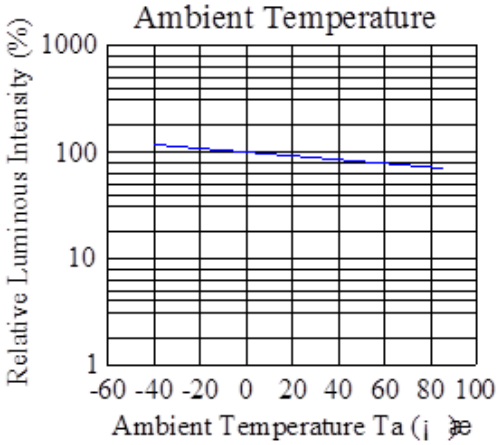
Spectrum Distribution



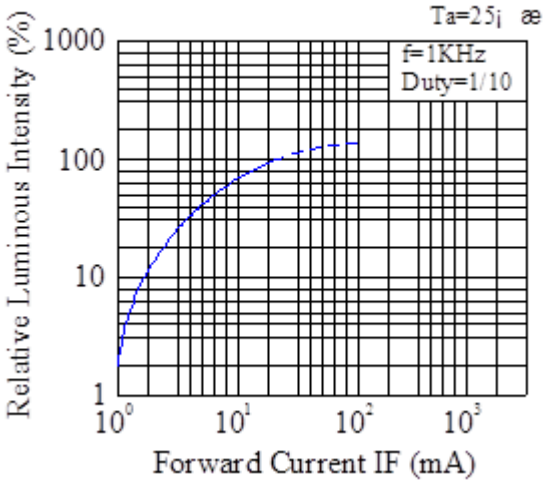
Forward Current & Forward Voltage



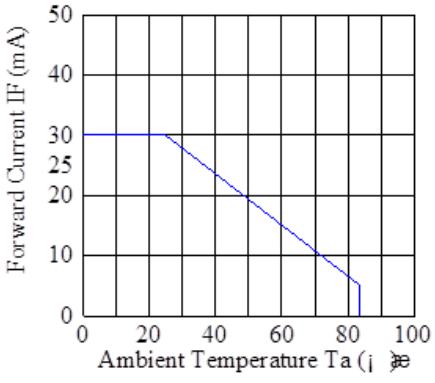
Luminous Intensity & Ambient Temperature



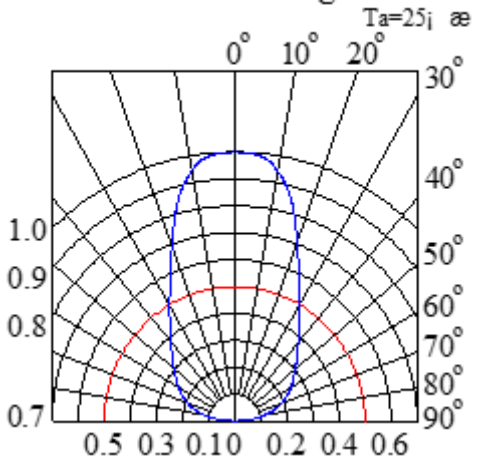
Luminous Intensity & Forward Current



Forward Current Derating Curve



Radiation Diagram



Labeling

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL8RAYG60D-MP6	QBL8RAYG60D-MP6	Iv=13mcd typ. @ 20mA, λ_D=630nm typ.; Iv=20mcd typ. @ 20mA, λ_D=570nm typ.	500
QBL8RAYA60D-MP6	QBL8RAYA60D-MP6	Iv=13mcd typ. @ 20mA, λ_D=630nm typ.; Iv=13mcd typ. @ 20mA, λ_D=588nm typ.	500
QBL8YGYA100D-MP6	QBL8YGYA100D-MP6	Iv=20mcd typ. @ 20mA, λ_D=570nm typ.; Iv=13mcd typ. @ 20mA, λ_D=588nm typ.	500

Revision History

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

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QT-BRIGHTEK's products are not authorized for use as critical components in life support devices or systems without the express written approval of QT-BRIGHTEK. As used herein:

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.