

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!



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QT-Brightek Lamp with Housing Series 3mm Round Lamp with Housing Part No.: QBL7XX80D-MP4B_series

Product: QBL7XX80D-MP4B_series Date: June 16, 2016 Page 1 of 10 Version# 1.0

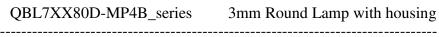




Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	
Absolute Maximum Rating	
Characteristic Curves	
Labeling	
Ordering Information	
Revision History	
Disclaimer	

Product: QBL7XX80D-MP4B_series	Date: June 16, 2016	Page 2 of 10
	Version# 1.0	



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:

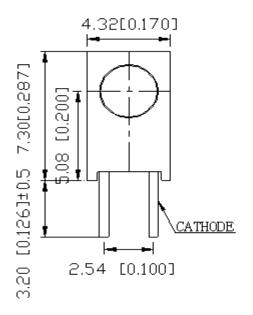
- General purpose indicator application
- Electronic instrument

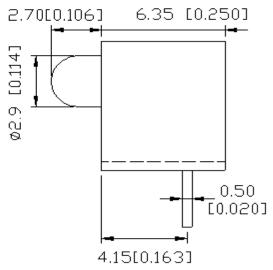
Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:





Units: mm / general tolerance = +/-0.5mm unless otherwise specified

Product: QBL7XX80D-MP4B_series	Date: June 16, 2016	Page 3 of 10
	Version# 1.0	



Electrical / Optical Characteristic (Ta=25°C)

Product	Color	I _F (mA)	V _F ((V)	,	λ _D (nm)		lv (m	cd)
Product		IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
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

Note:

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

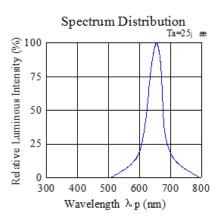
Product: QBL7XX80D-MP4B_series	Date: June 16, 2016	Page 4 of 10
	Version# 1.0	

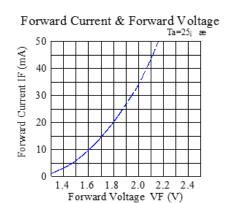
^{**}Wave Soldering for no more than 3 sec @ 260 °C

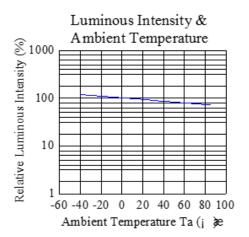


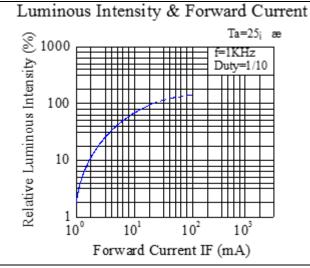
Characteristic Curves

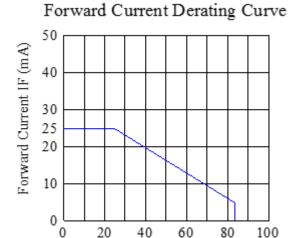




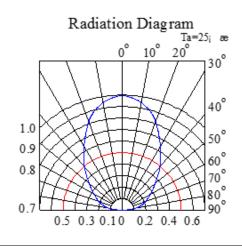








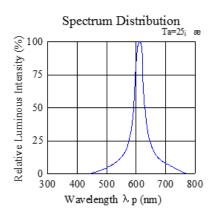
Ambient Temperature Ta (;)æ



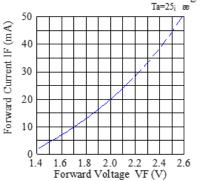
Product: QBL7XX80D-MP4B_series	Date: June 16, 2016	Page 5 of 10
	Version# 1.0	



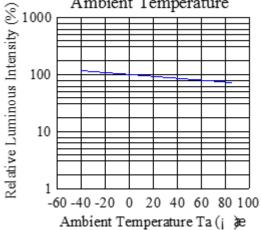




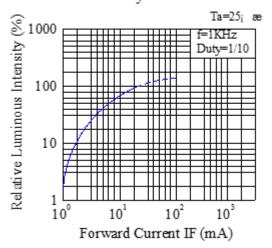
Forward Current & Forward Voltage $Ta=25_i \approx$



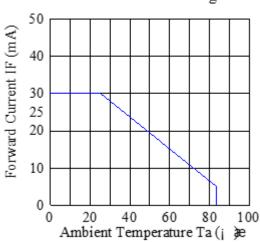
Luminous Intensity & Ambient Temperature



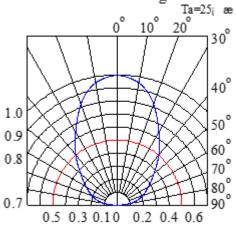
Luminous Intensity & Forward Current



Forward Current Derating Curve

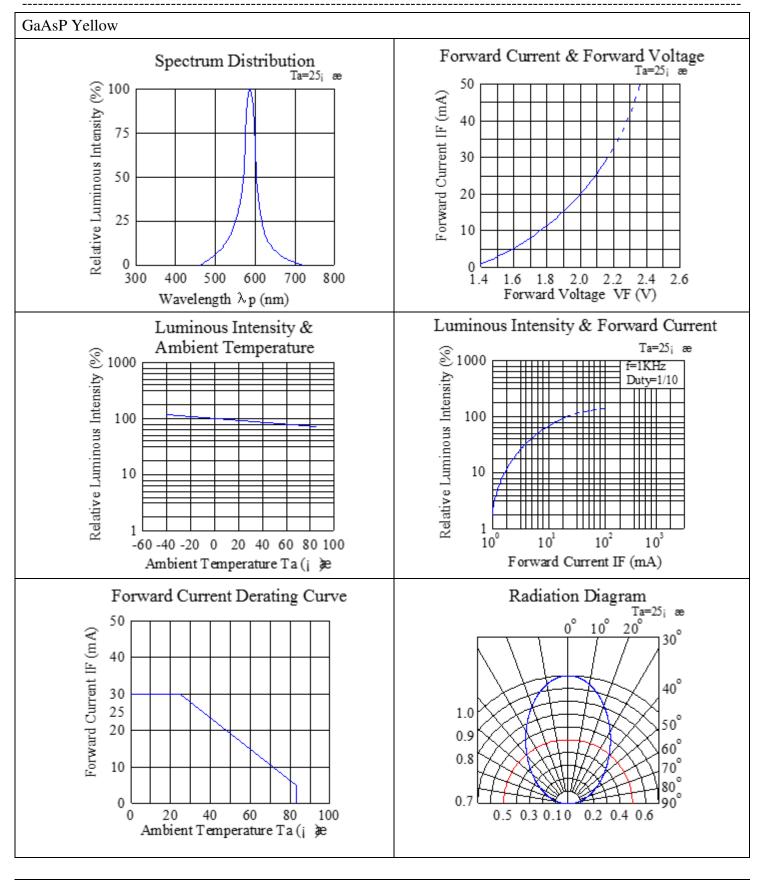


Radiation Diagram



Product: QBL7XX80D-MP4B_series	Date: June 16, 2016	Page 6 of 10
	Version# 1.0	

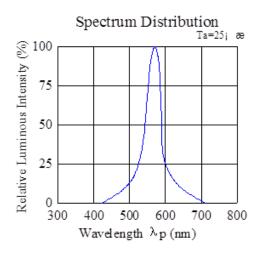


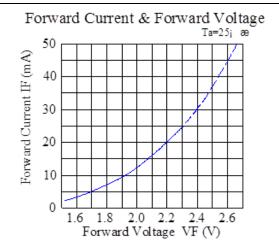


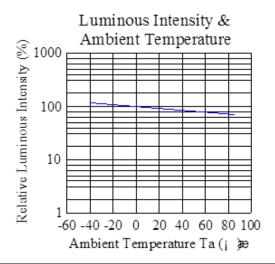
Product: QBL7XX80D-MP4B_series	Date: June 16, 2016	Page 7 of 10	
	Version# 1.0		

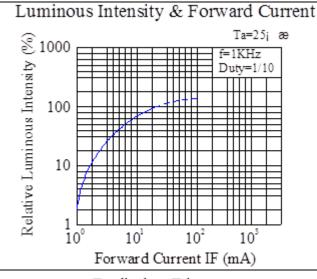


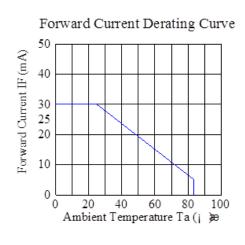


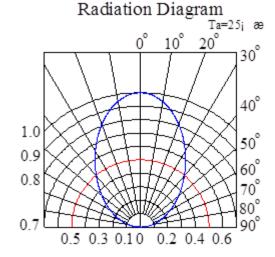












Product: QBL7XX80D-MP4B_series	Date: June 16, 2016	Page 8 of 10
	Version# 1.0	



Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
lv:
WI:
Date: Made in China

Ordering Information

oracinig intermation				
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	

Product: QBL7XX80D-MP4B_series	Date: June 16, 2016	Page 9 of 10
	Version# 1.0	



Revision History

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

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.

Product: QBL7XX80D-MP4B_series	Date: June 16, 2016	Page 10 of 10
	Version# 1.0	