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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-MP4A_series

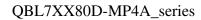




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Introduction

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:

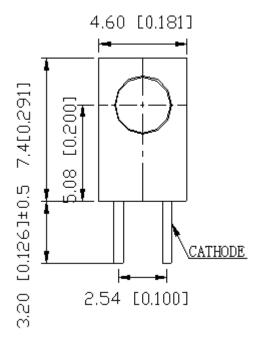
- General purpose indicator application
- Electronic instrument

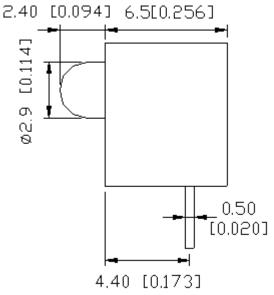
Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:





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

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Electrical / Optical Characteristic (Ta=25°C)

Product Color	Color I-(mA)		V _F (V)		λ _D (nm)			I _V (mcd)	
	Coloi	I _F (mA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBL7SA80D-MP4A	Deep Red	20	1.8	2.6		640		20	45
QBL7OA80D-MP4A	Orange	20	2.0	2.6		603	-	13	30
QBL7YA80D-MP4A	Yellow	20	2.0	2.6		588	-	13	20
QBL7YG80D-MP4A	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

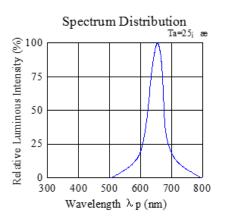
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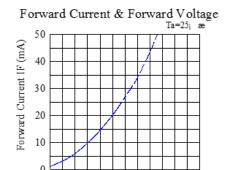
^{**}Wave Soldering for no more than 3 sec @ 260 °C



Characteristic Curves





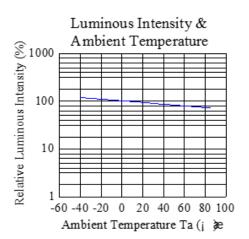


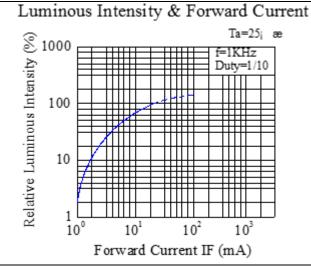
1.8

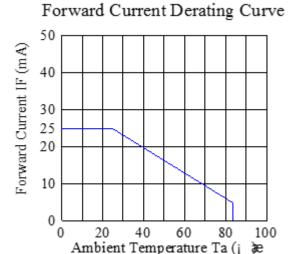
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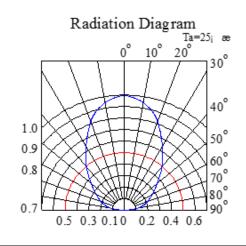
Forward Voltage VF (V)

2.2 2.4





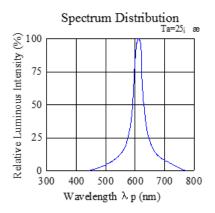




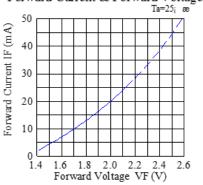
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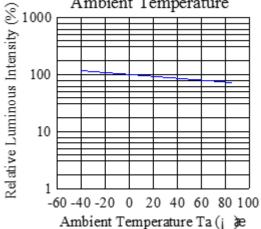




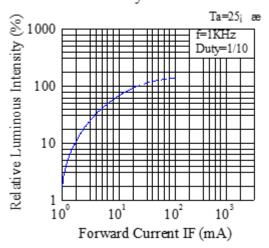
Forward Current & Forward Voltage $_{Ta=25_{i}}^{}$ æ



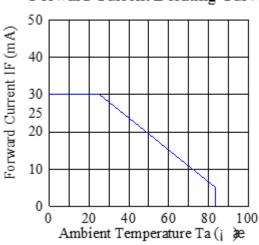
Luminous Intensity & Ambient Temperature

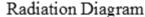


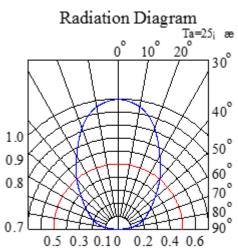
Luminous Intensity & Forward Current



Forward Current Derating Curve

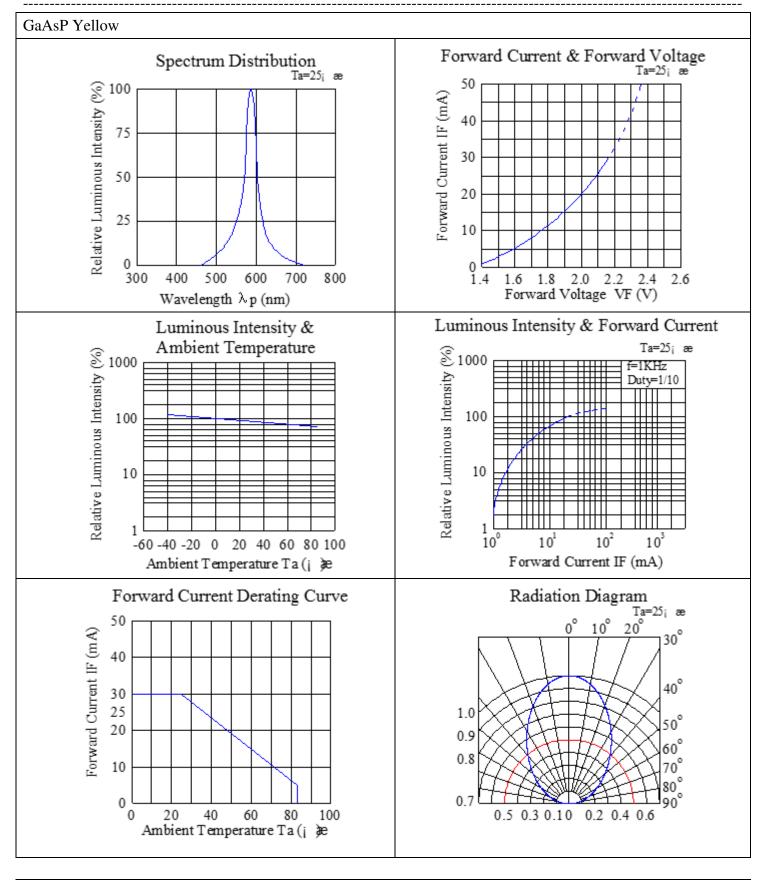






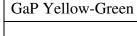
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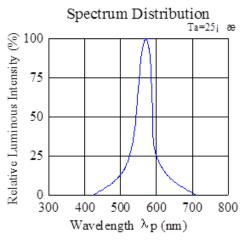


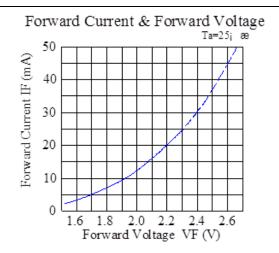


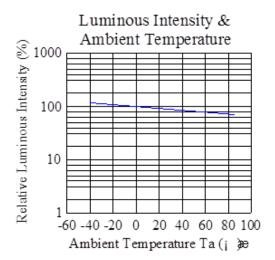
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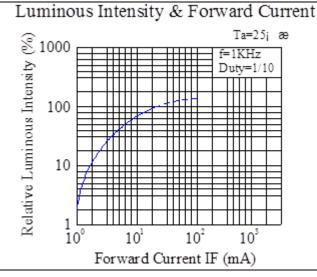


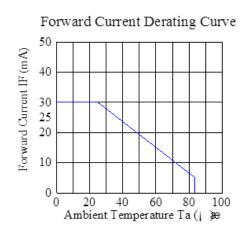


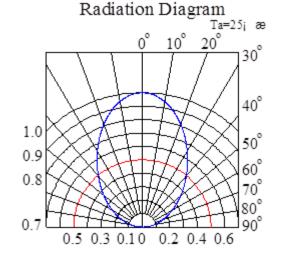












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Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
Iv:
WI:
Date:

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL7SA80D- MP4A	QBL7SA80D- MP4A	Iv=45mcd typ. @ 20mA, λ _D =640nm typ.	500
QBL7OA80D- MP4A	QBL7OA80D- MP4A	Iv=30mcd typ. @ 20mA, λ _D =603nm typ.	500
QBL7YA80D- MP4A	QBL7YA80D- MP4A	Iv=20mcd typ. @ 20mA, λ _D =588nm typ.	500
QBL7YG80D- MP4A	QBL7YG80D- MP4A	Iv=30mcd typ. @ 20mA, λ_D =570nm typ.	500

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Revision History

Description:	Revision #	Revision Date
New Release of QBL7XX80D-MP4A_series	V1.0	05/27/2016

Disclaimer

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Life Support Policy

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.

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