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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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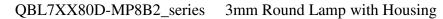




QT-Brightek Lamp with Housing Series 3mm Round Lamp with Eight level Housing

Part No.: QBL7XX80D-MP8B2_series

Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 1 of 10
	Version# 1.0	



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Table of Contents:Introduction3Electrical / Optical Characteristic (Ta=25 °C)4Absolute Maximum Rating4Characteristic Curves5Labeling9Ordering Information9Revision History10Disclaimer10

Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 2 of 10
	Version# 1.0	



Introduction

Feature:

- Color Diffused lens
- Packaged in Tray
- 3mm round TH lamp with housing
- GaAsP technology for Orange, Yellow
- GaP technology for Yellow-Green, Red
- Viewing angle: 80° typ.

Description:

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

Application:

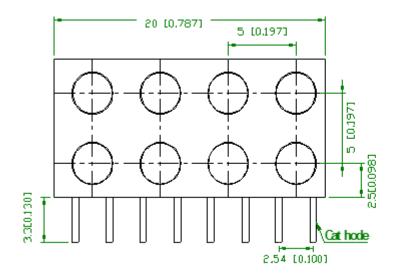
- General purpose indicator application
- Electronic instrument

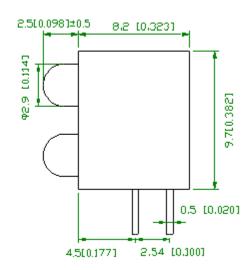
Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:





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

Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 3 of 10
	Version# 1.0	



Electrical / Optical Characteristic (Ta=25°C)

Draduct Color		I _F (mA)	V _F (V)		λ _D (nm)		I _V (mcd)		
Product	Color	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBL7SB80D-MP8B2	GaP Red	20	2.0	2.6		640		15	30
QBL7OA80D-MP8B2	Orange	20	2.0	2.6		603		13	30
QBL7YA80D-MP8B2	Yellow	20	2.0	2.6		588	-	13	30
QBL7YG80D-MP8B2	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)**
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

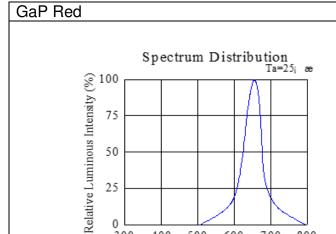
Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 4 of 10
	Version# 1.0	

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

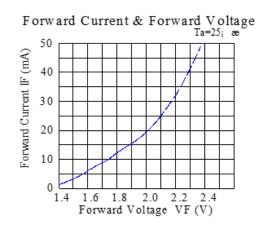


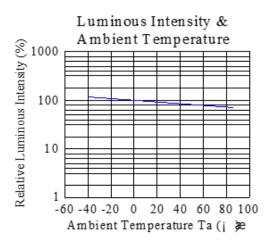
Characteristic Curves

300



400



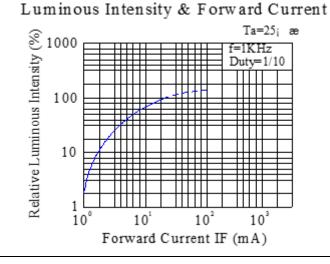


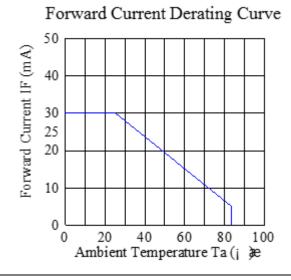
500

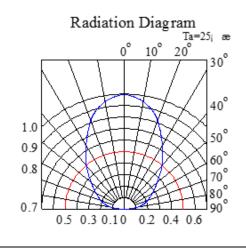
Wavelength λp (nm)

600

700



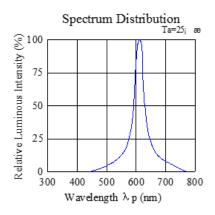




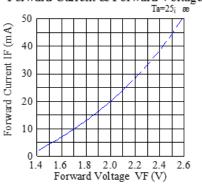
Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 5 of 10
	Version# 1.0	



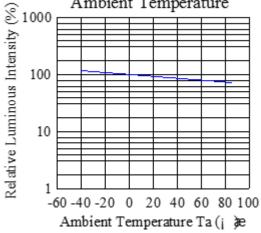
GaAsP Orange



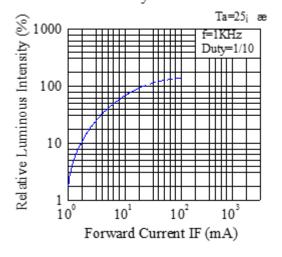
Forward Current & Forward Voltage $Ta=25_i$ æ



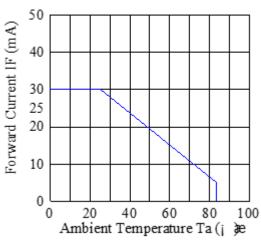
Luminous Intensity & Ambient Temperature



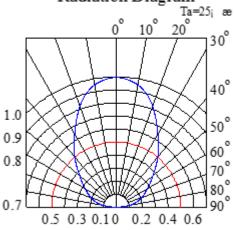
Luminous Intensity & Forward Current



Forward Current Derating Curve

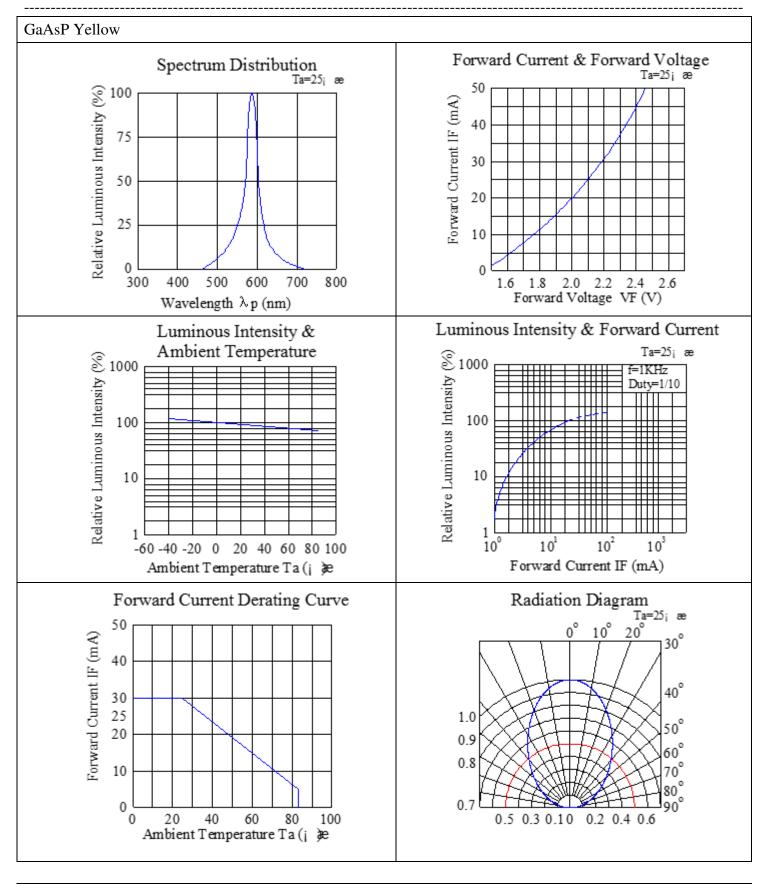






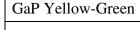
Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 6 of 10
	Version# 1.0	

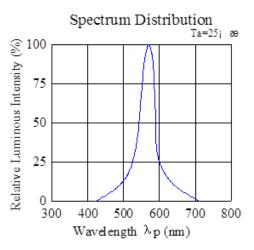


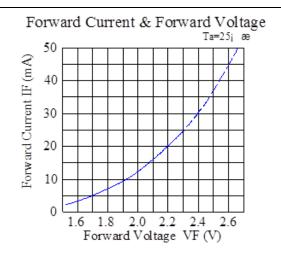


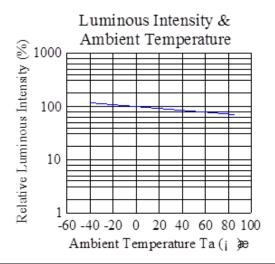
Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 7 of 10
	Version# 1.0	

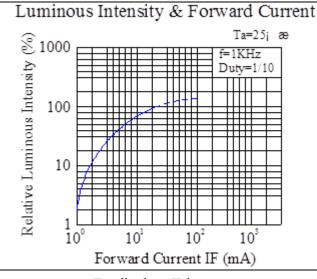


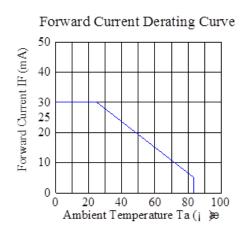


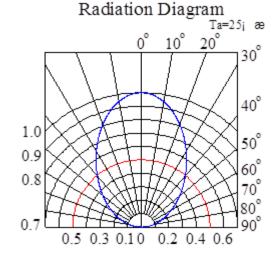












Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 8 of 10
	Version# 1.0	



Labeling

	6	QT-Brightek	No.NB
 Par	t No:		
<u>Cus</u>	stome	r P/N:	
<u>lten</u>	n:		
Q'ty	/ :		
∨f:			
lv:			
WI:			
Dat	te:		
		Made in China	

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per Tray
QBL7SB80D- MP8B2	QBL7SB80D- MP8B2	Iv=30mcd typ. @ 20mA, λ_D =640nm typ.	120
QBL7OA80D- MP8B2	QBL7OA80D- MP8B2	Iv=30mcd typ. @ 20mA, λ _D =603nm typ.	120
QBL7YA80D- MP8B2	QBL7YA80D- MP8B2	Iv=30mcd typ. @ 20mA, λ _D =588nm typ.	120
QBL7YG80D- MP8B2	QBL7YG80D- MP8B2	Iv=30mcd typ. @ 20mA, λ_D =570nm typ.	120

Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 9 of 10
	Version# 1.0	



Revision History

Description:	Revision #	Revision Date
New Release of QBL7XX80D-MP8B2_series	V1.0	06/29/2016

Disclaimer

QT-BRIGHTEK reserves the right to make changes without further notice to any products herein to improve reliability, function or design. QT-BRIGHTEK does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights, nor the rights of others.

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.

Product: QBL7XX80D-MP8B2_series	Date: June 29, 2016	Page 10 of 10
	Version# 1.0	