

QT-Brightek Lamp with Housing Series
3mm Round Lamp with Bi-level Housing
Part No.: QLA694B-2X_series

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Introduction

Feature:

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

Description:

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

Application:

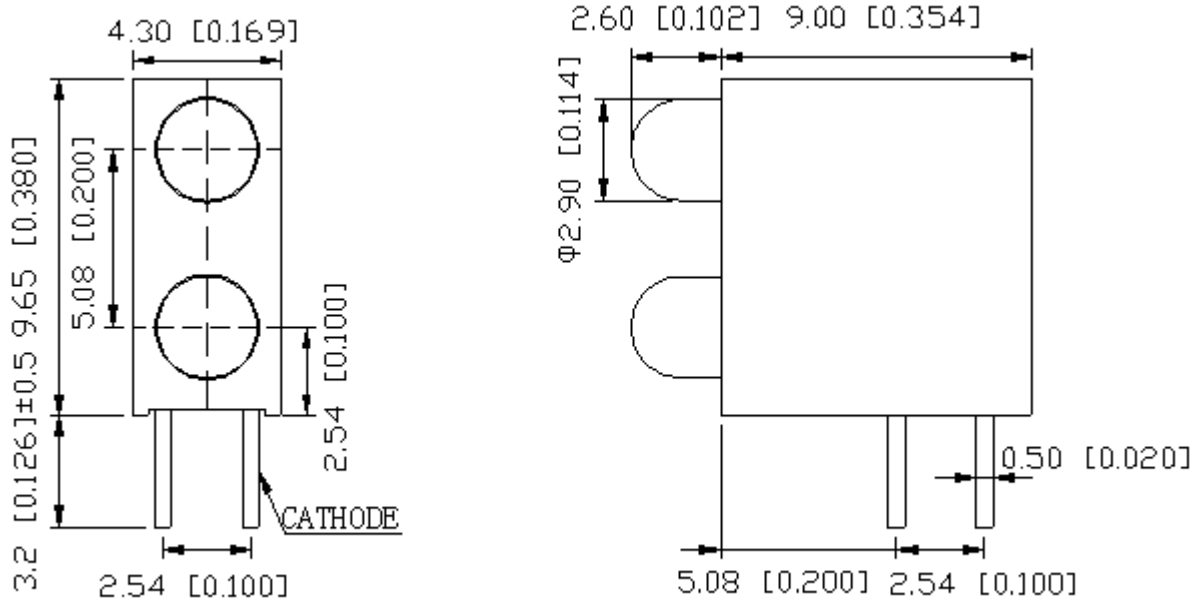
- General purpose indicator application
- Electronic instrument

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



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

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.
QLA694B-2I	Deep Red	20	1.8	2.6	--	640	--	20	45
QLA694B-2A	Orange	20	2.0	2.6	--	603	--	13	30
QLA694B-2Y	Yellow	20	2.0	2.6	--	588	--	13	20
QLA694B-2G	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

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

Note:

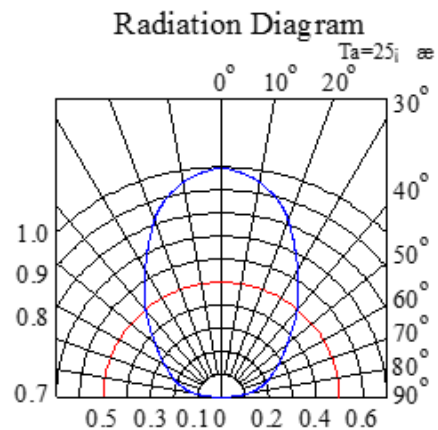
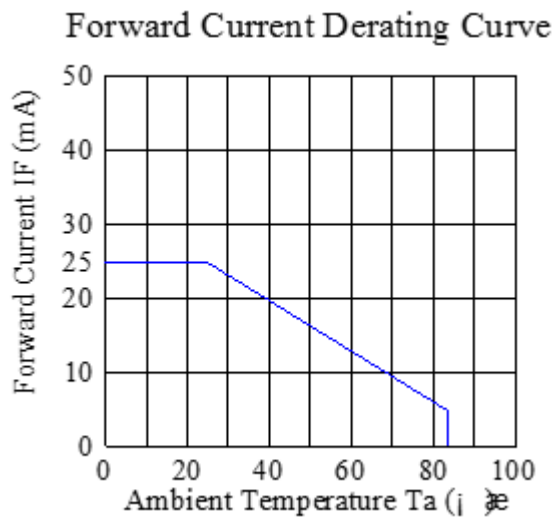
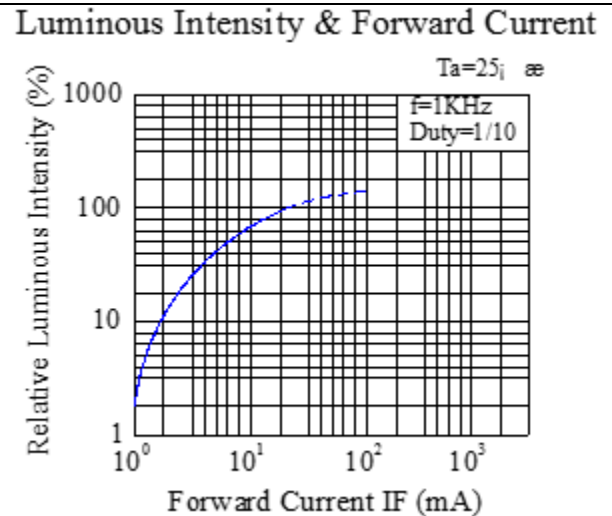
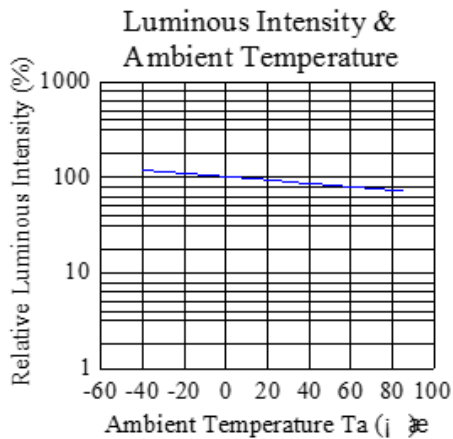
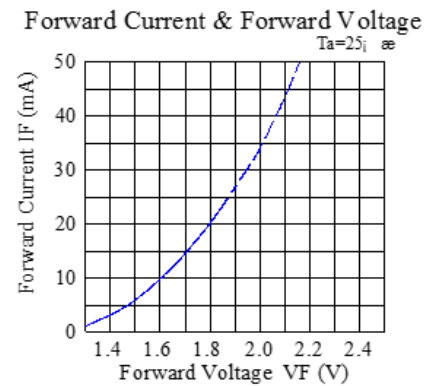
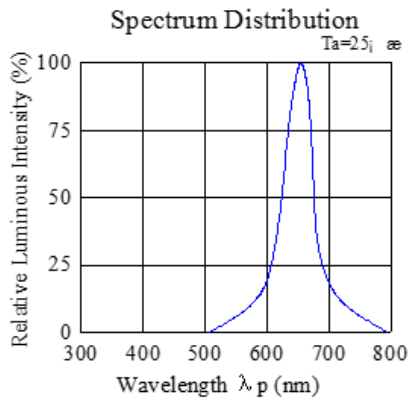
Tolerance of measurement of forward voltage: ±0.1V

Tolerance of measurement of luminous intensity: ±15%

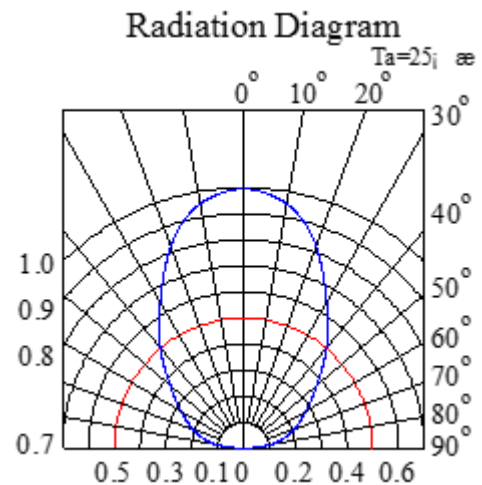
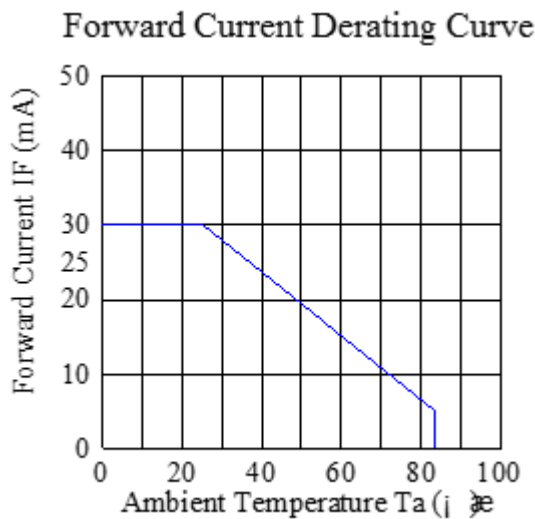
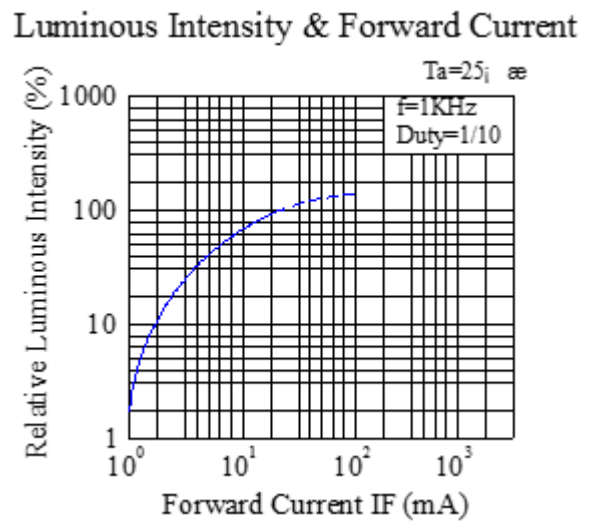
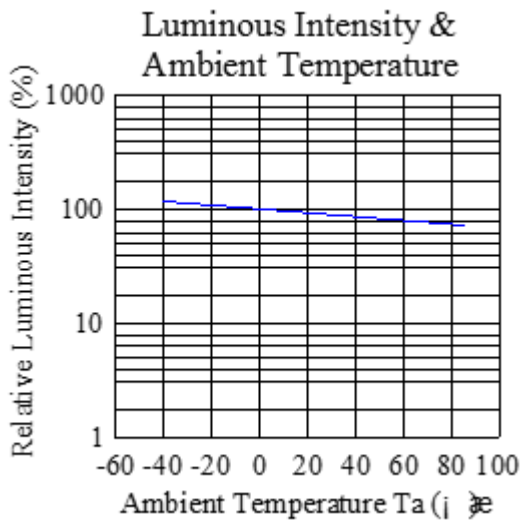
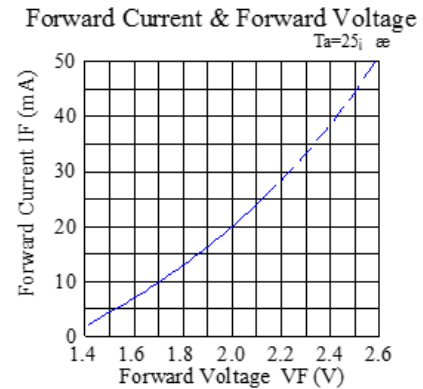
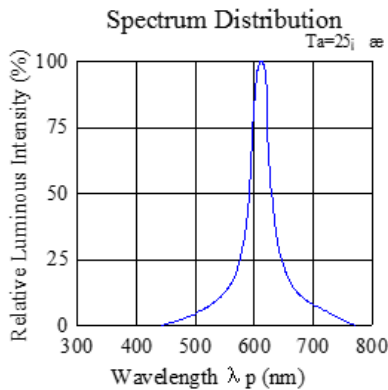
Tolerance of measurement of dominant wavelength: ±2nm

Characteristic Curves

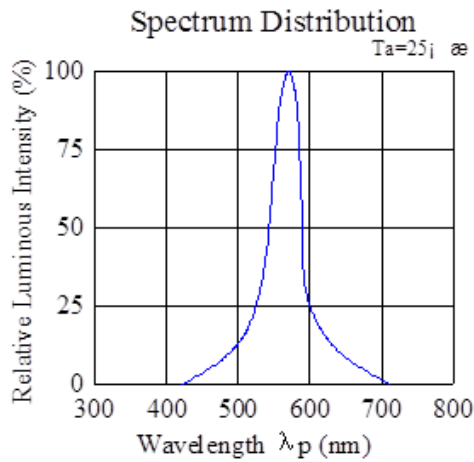
AlGaAs Deep Red



GaAsP Orange

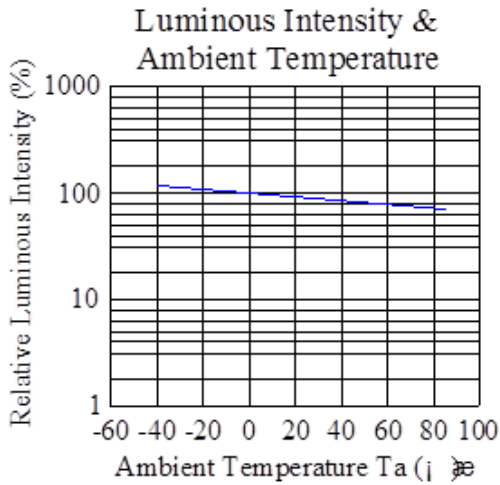
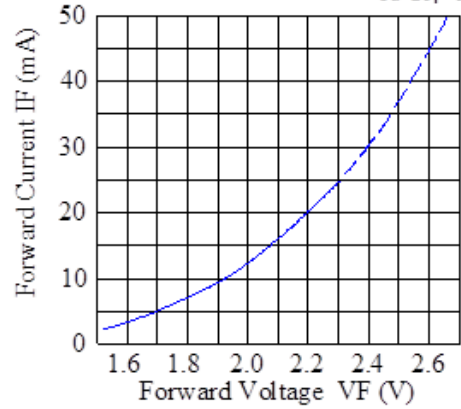


GaP Yellow-Green



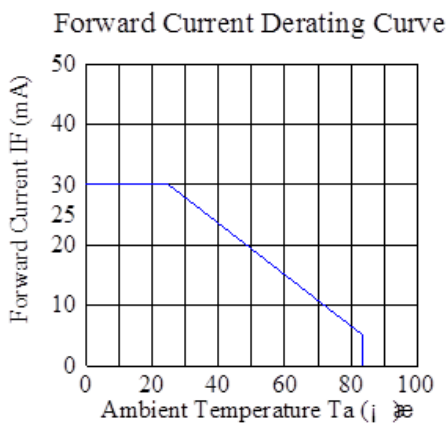
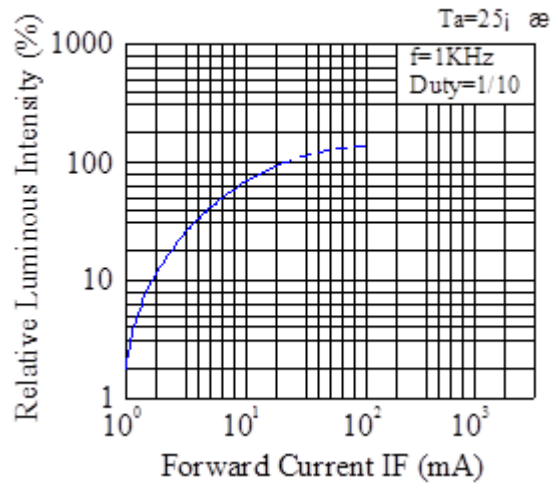
Forward Current & Forward Voltage

$T_a=25j\text{ }^{\circ}\text{C}$



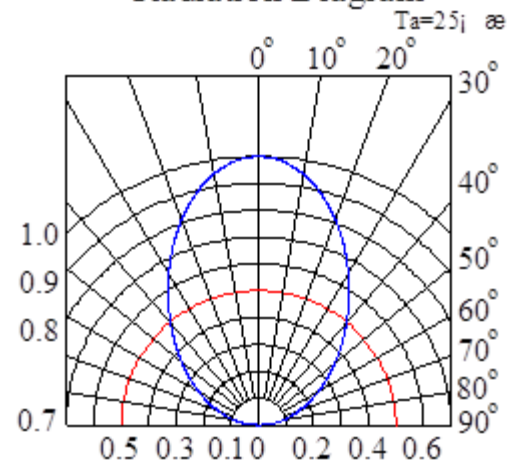
Luminous Intensity & Forward Current

$T_a=25j\text{ }^{\circ}\text{C}$



Radiation Diagram

$T_a=25j\text{ }^{\circ}\text{C}$



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
QLA694B-2I	QLA694B-2I	Iv=45mcd typ. @ 20mA, λ _D =640nm typ.	500
QLA694B-2A	QLA694B-2A	Iv=30mcd typ. @ 20mA, λ _D =603nm typ.	500
QLA694B-2Y	QLA694B-2Y	Iv=20mcd typ. @ 20mA, λ _D =588nm typ.	500
QLA694B-2G	QLA694B-2G	Iv=30mcd typ. @ 20mA, λ _D =570nm typ.	500

Revision History

Description:	Revision #	Revision Date
New Release of QLA694B-2X_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.