

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

Table of Contents:

Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	4
Absolute Maximum Rating	4
Characteristic Curves.....	5
Labeling	9
Ordering Information	9
Revision History	10
Disclaimer	10

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:

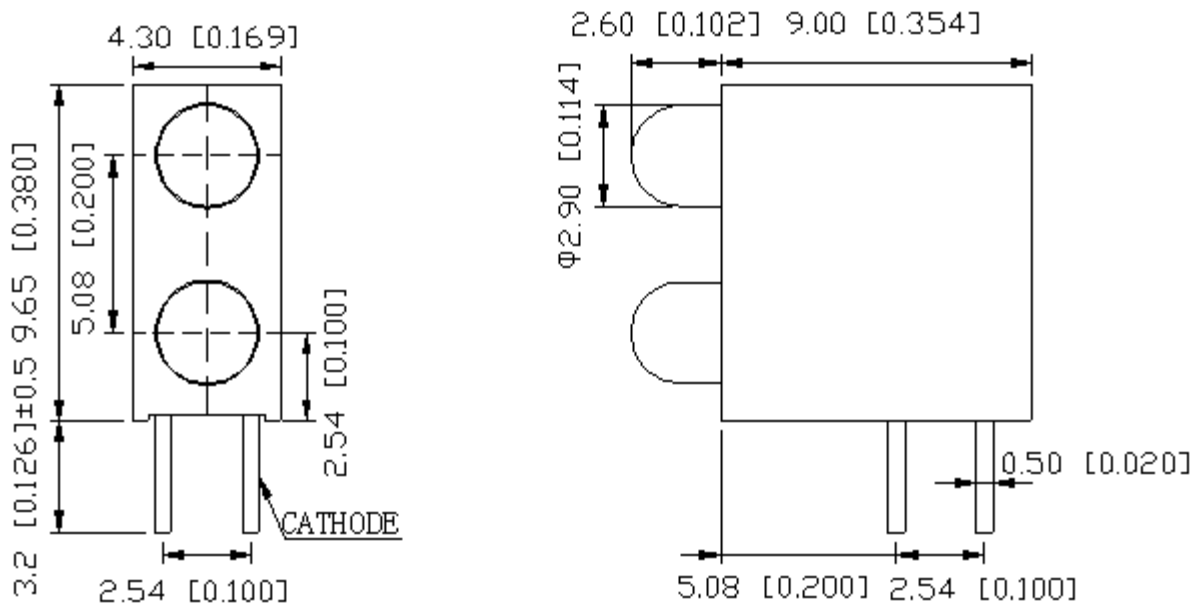
- General purpose indicator application
- Electronic instrument

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	--	15	30
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

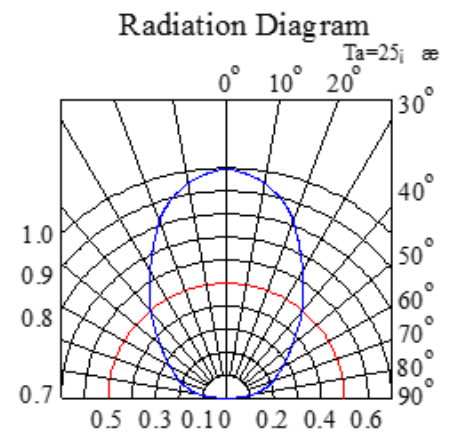
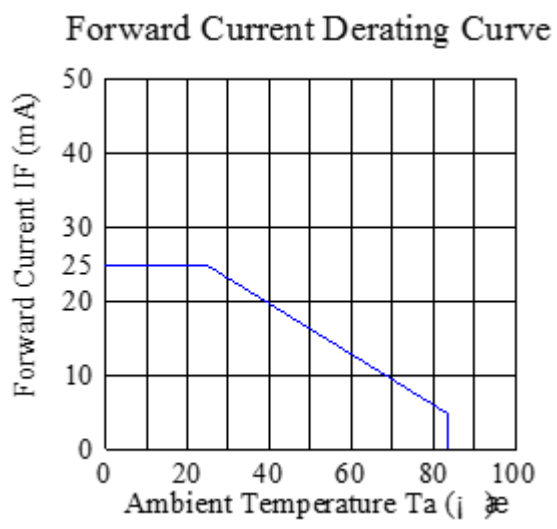
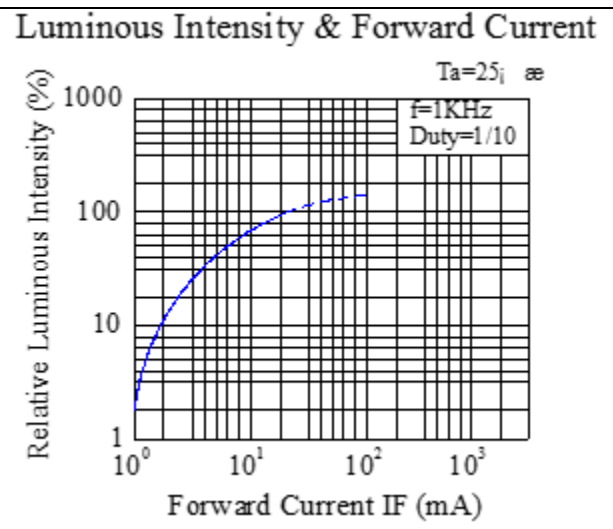
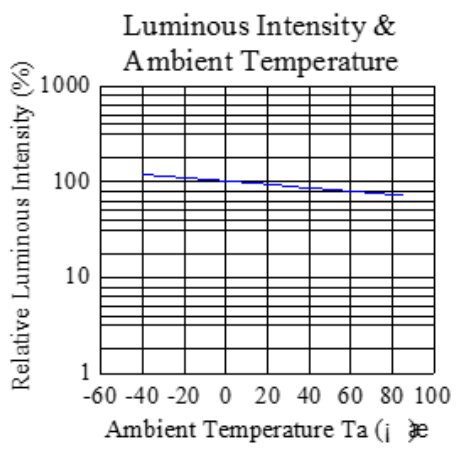
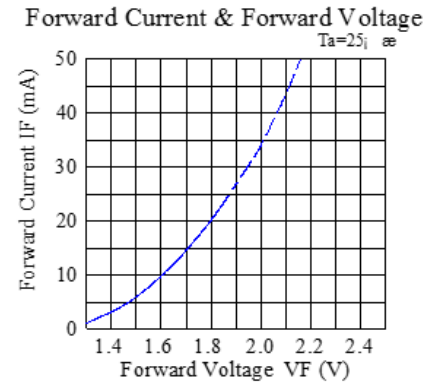
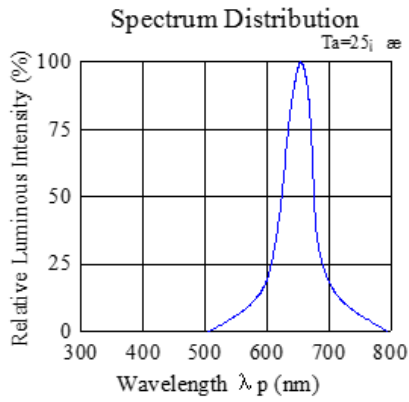
Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AlGaAs	60	25	100	5	-40 to +80	-40 to +85	260
GaAsP	78	30	100	5	-40 to +80	-40 to +85	260
GaP	78	30	100	5	-40 to +80	-40 to +85	260

*Duty=0.1, 0.1ms Pulse Width

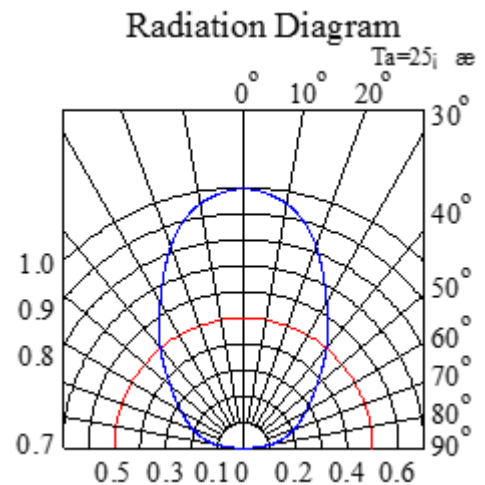
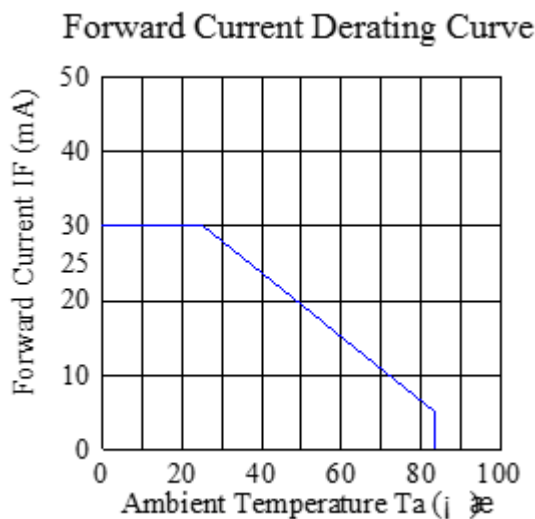
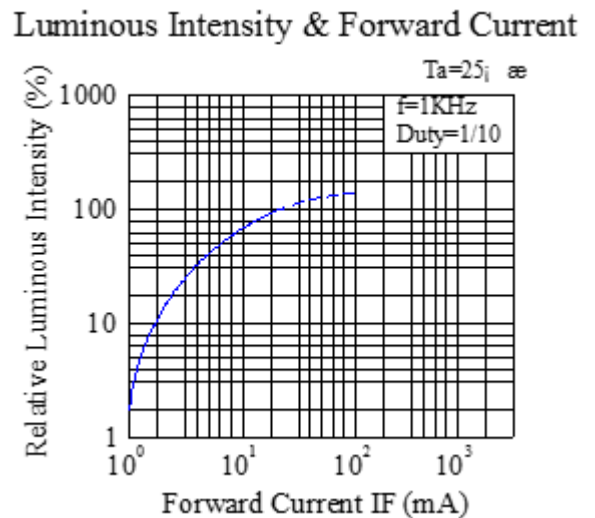
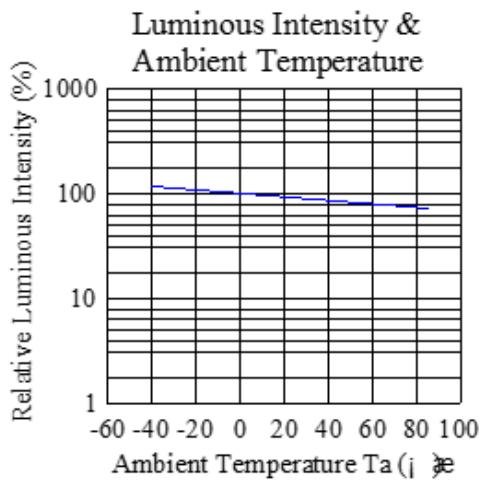
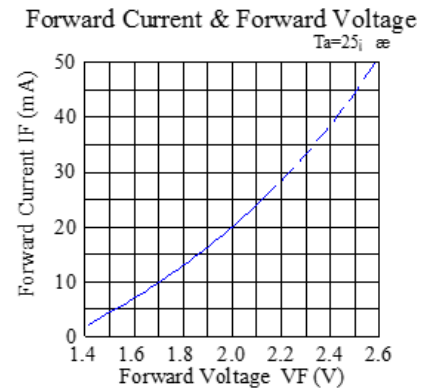
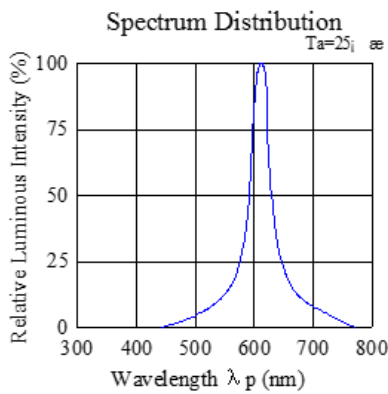
**Wave Soldering for no more than 3 sec @ 260 °C

Characteristic Curves

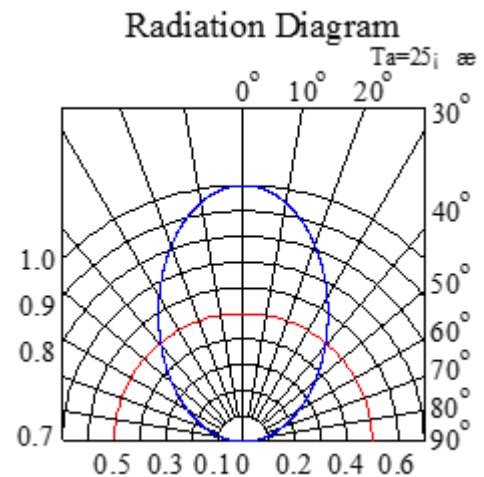
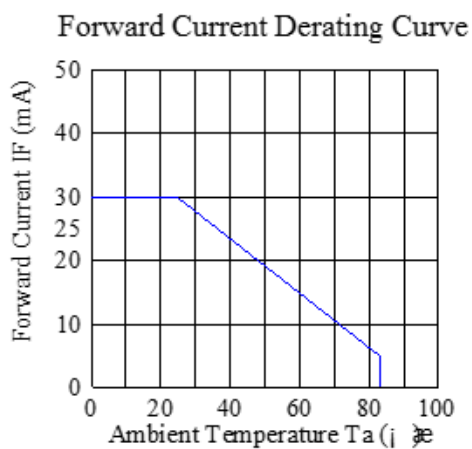
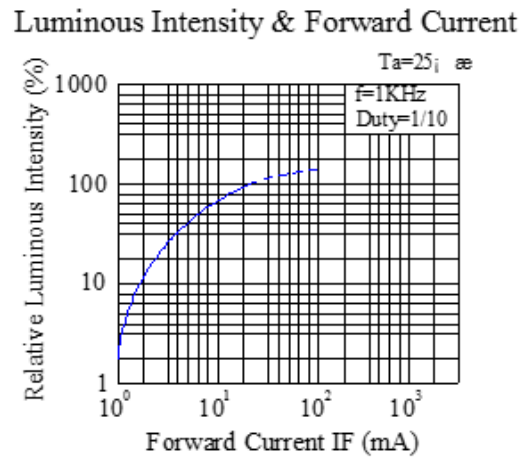
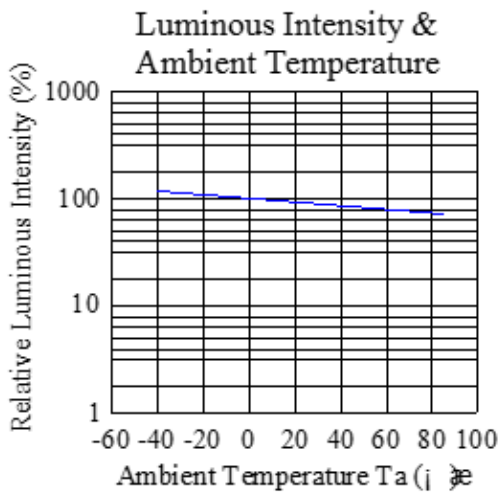
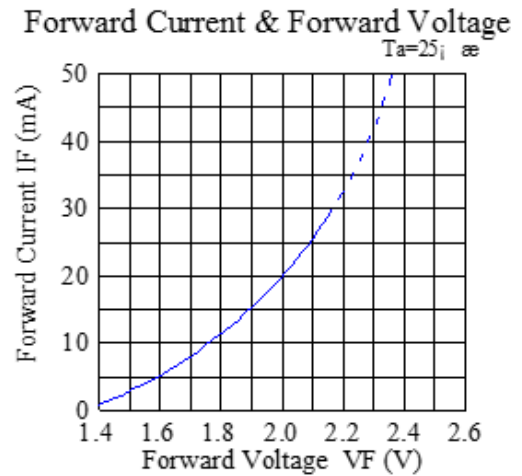
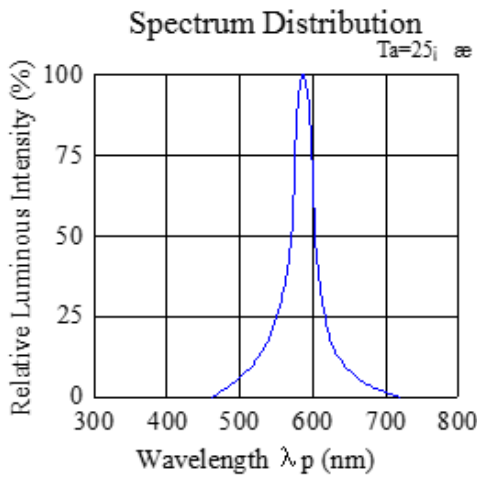
AlGaAs Deep Red



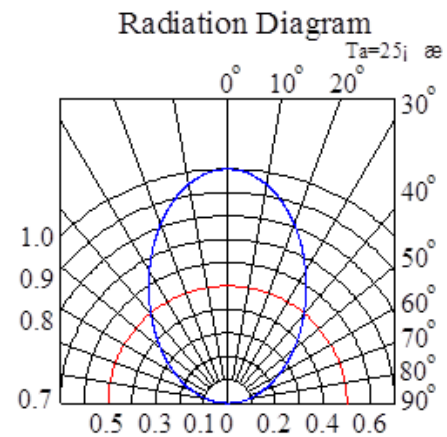
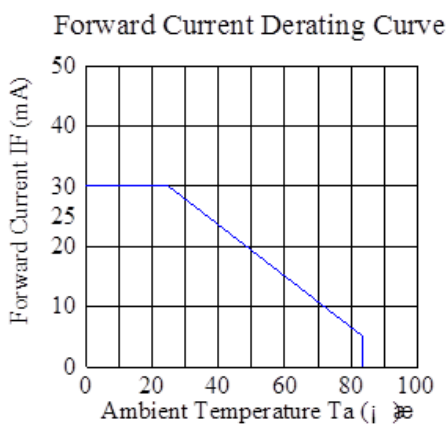
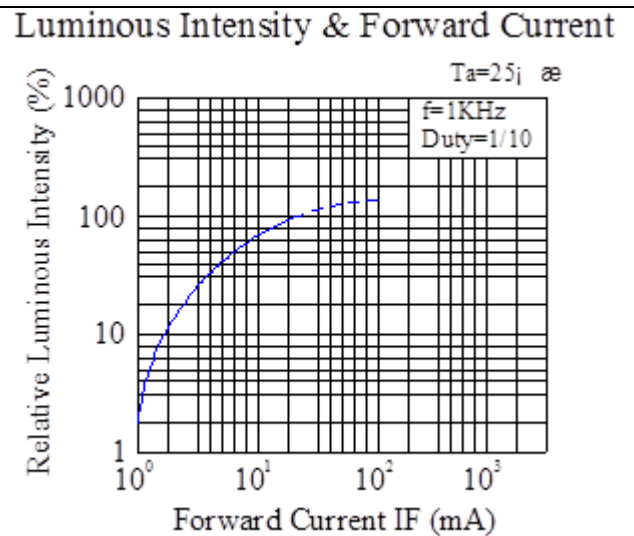
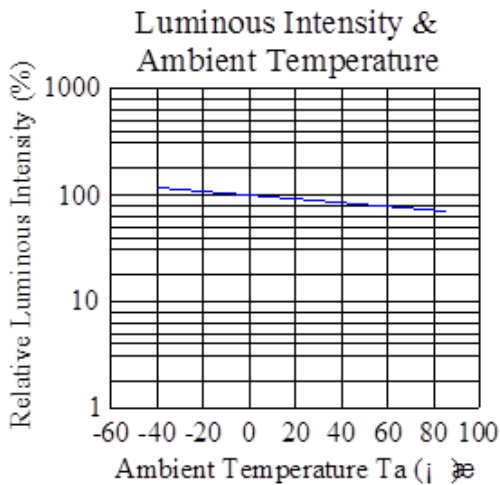
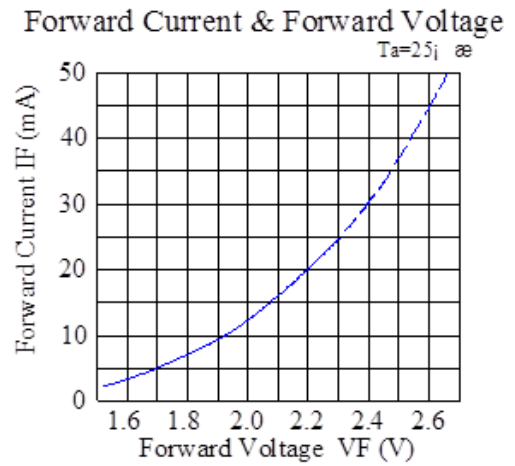
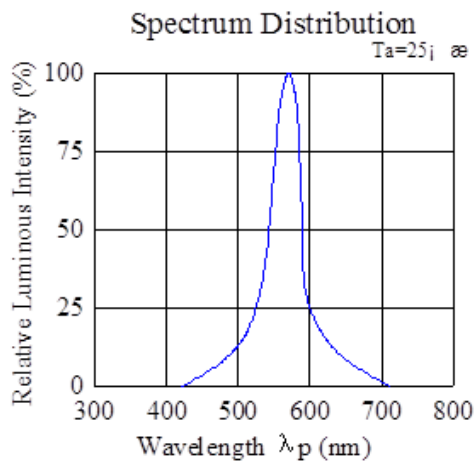
GaAsP Orange



GaAsP Yellow



GaP Yellow-Green



Labeling

Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

LOT NO: _____

Date: _____

Made in China**Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per Tray
QLA694B-2I	QLA694B-2I	Iv=30mcd typ. @ 20mA, $\lambda_D=640\text{nm}$ typ.	500
QLA694B-2A	QLA694B-2A	Iv=30mcd typ. @ 20mA, $\lambda_D=603\text{nm}$ typ.	500
QLA694B-2Y	QLA694B-2Y	Iv=20mcd typ. @ 20mA, $\lambda_D=588\text{nm}$ typ.	500
QLA694B-2G	QLA694B-2G	Iv=30mcd typ. @ 20mA, $\lambda_D=570\text{nm}$ typ.	500

Revision History

Description:	Revision #	Revision Date
New Release of QLA694B-2X_series	V1.0	06/24/2016
Spec update/ packing method update	V1.1	11/09/2016
Update label content	V1.2	12/14/2016

Disclaimer

QT-BRIGHTTEK reserves the right to make changes without further notice to any products herein to improve reliability, function or design. QT-BRIGHTTEK 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-BRIGHTTEK's products are not authorized for use as critical components in life support devices or systems without the express written approval of QT-BRIGHTTEK. 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.