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# **QT-Brightek Lamp with Housing Series 3mm Round Lamp with Bi-level Housing**

Part No.: QLA694B-2X\_series

Product: QLA694B-2X_series	Date: June 24, 2016	Page 1 of 10
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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:**

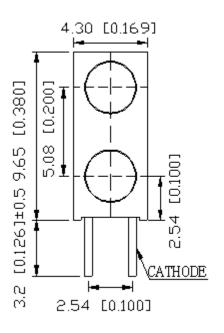
- General purpose indicator application
- Electronic instrument

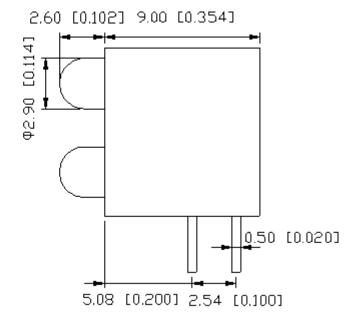
#### **Certification & Compliance:**

- TS16949
- ISO9001
- RoHS Compliant



#### **Dimension:**





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

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Electrical / Optical Characteristic (Ta=25°C)

Draduat Color		Color I- (m A)		V <sub>F</sub> (V)		λ <sub>D</sub> (nm)		Iv (mcd)	
Product	Color	I <sub>F</sub> (mA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
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 <sub>d</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)*	V <sub>R</sub> (V)	T <sub>OP</sub> (°C)	T <sub>ST</sub> (°C)	T <sub>SOL</sub> (°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

<sup>\*</sup>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

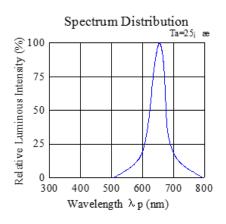
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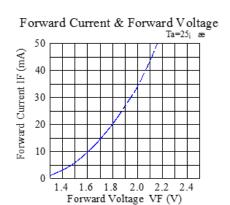
<sup>\*\*</sup>Wave Soldering for no more than 3 sec @ 260 °C

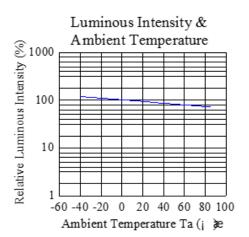


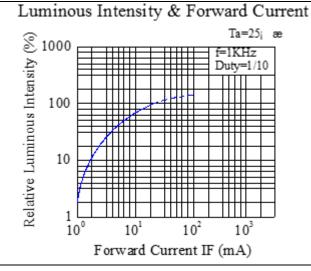
#### **Characteristic Curves**

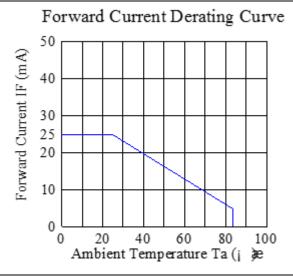


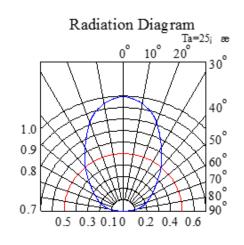








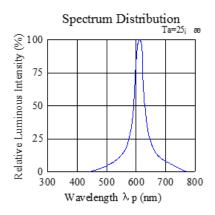




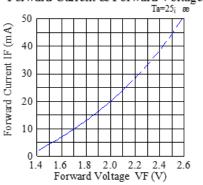
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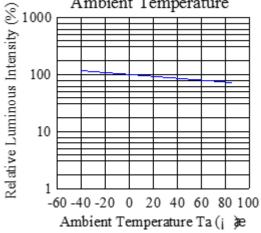
#### GaAsP Orange



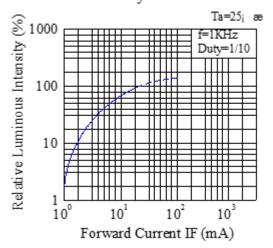
## Forward Current & Forward Voltage $_{Ta=25_{i}}^{}$ æ



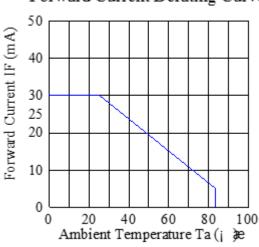
## Luminous Intensity & Ambient Temperature



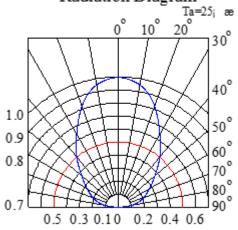
#### Luminous Intensity & Forward Current



#### Forward Current Derating Curve

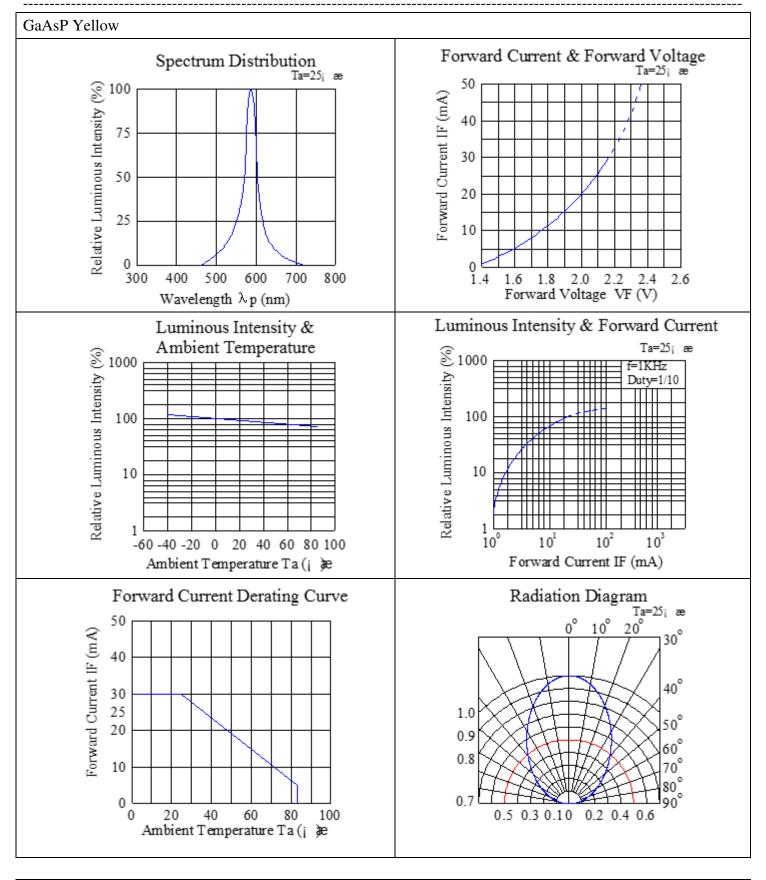






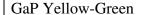
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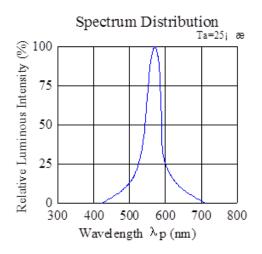


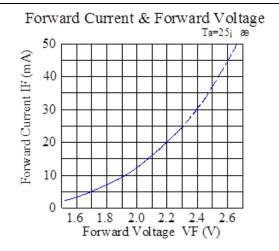


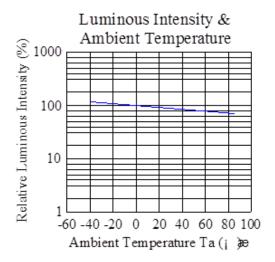
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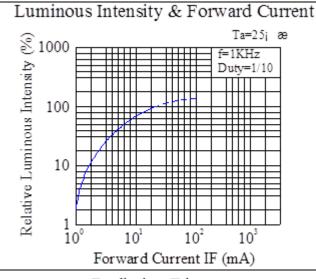


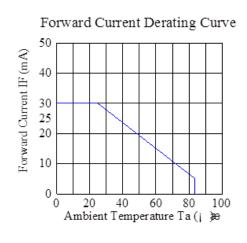


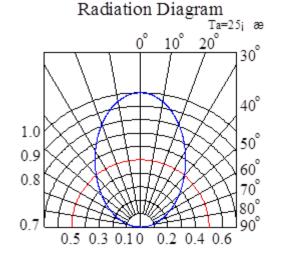












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## Labeling

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

**Ordering Information** 

Part #	Orderable Part #	Spec Range	Quantity per bag
QLA694B-2I	QLA694B-2I	Iv=45mcd typ. @ 20mA, $\lambda_D$ =640nm typ.	500
QLA694B-2A	QLA694B-2A	Iv=30mcd typ. @ 20mA, $\lambda_D$ =603nm typ.	500
QLA694B-2Y	QLA694B-2Y	Iv=20mcd typ. @ 20mA, $\lambda_D$ =588nm typ.	500
QLA694B-2G	QLA694B-2G	Iv=30mcd typ. @ 20mA, λ <sub>D</sub> =570nm typ.	500

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**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.

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