

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:

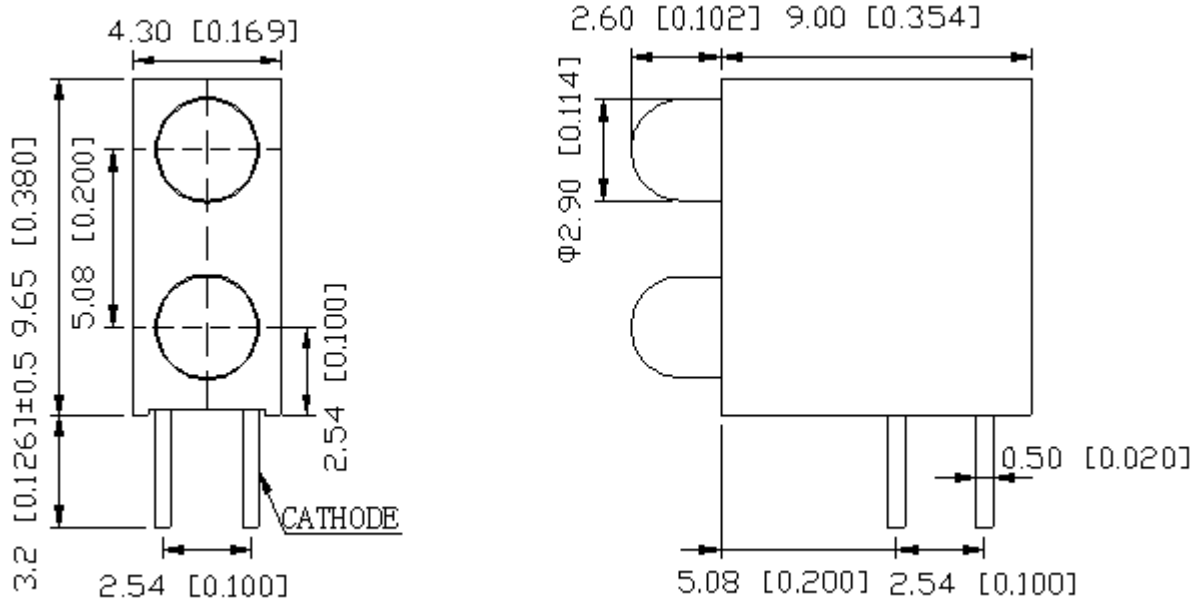
- General purpose indicator application
- Electronic instrument

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:

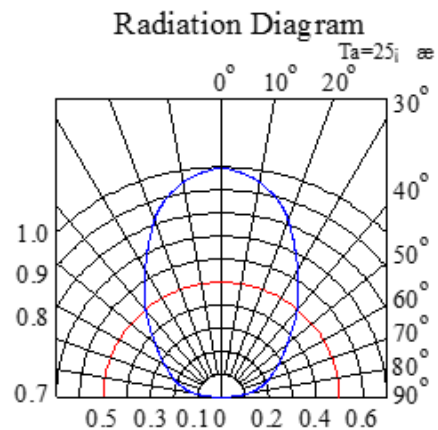
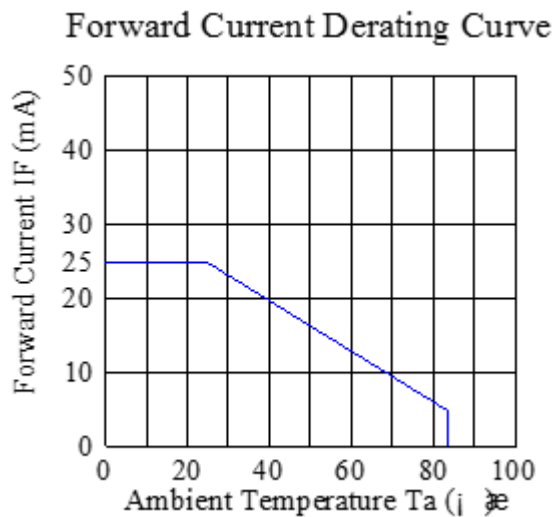
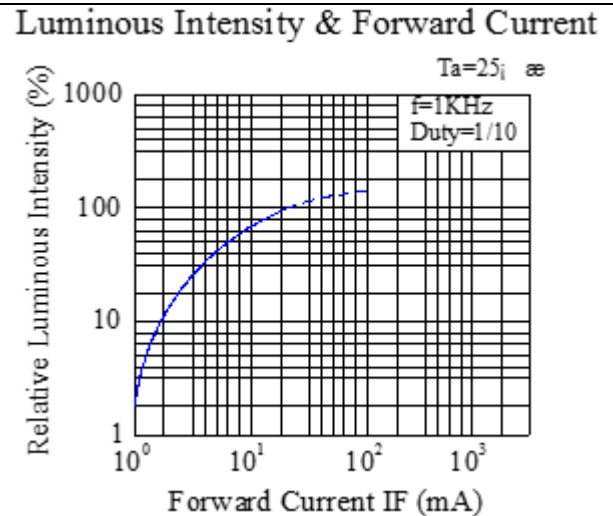
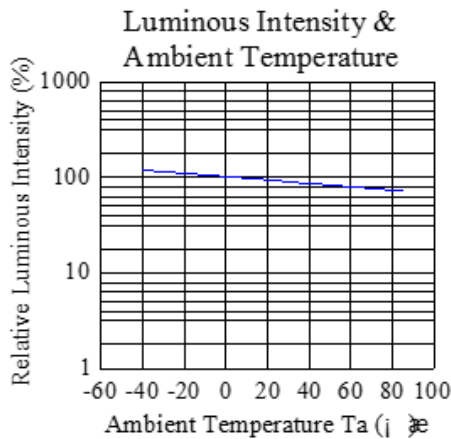
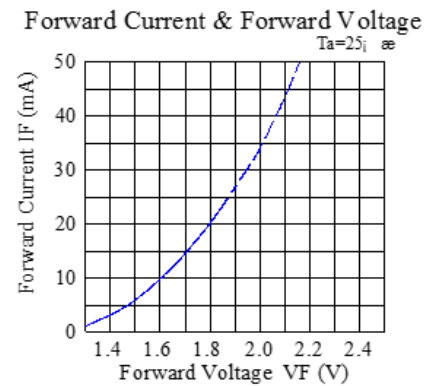
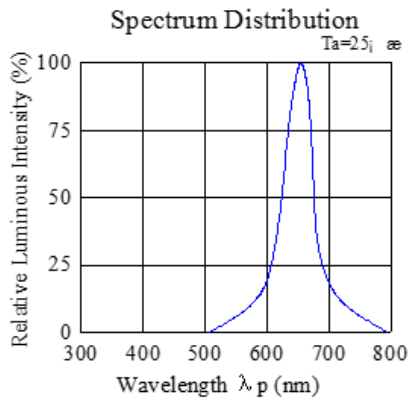
Tolerance of measurement of forward voltage: ±0.1V

Tolerance of measurement of luminous intensity: ±15%

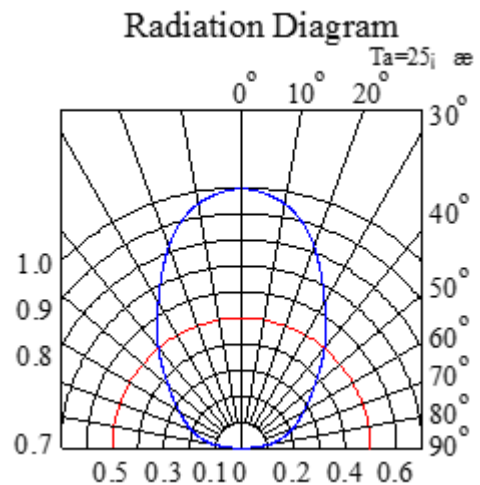
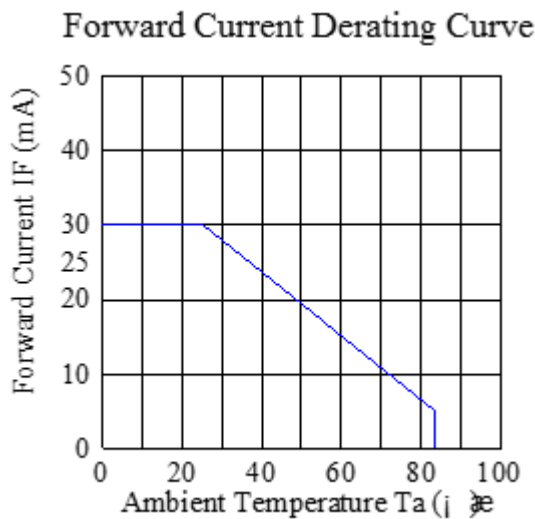
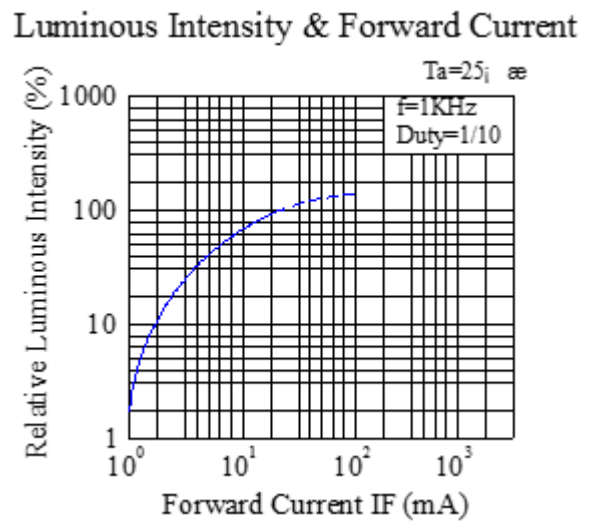
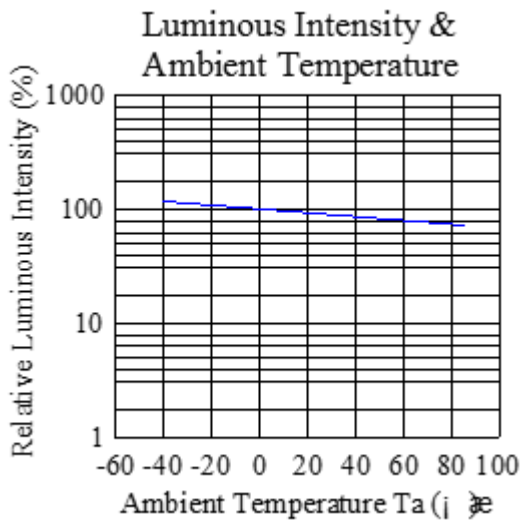
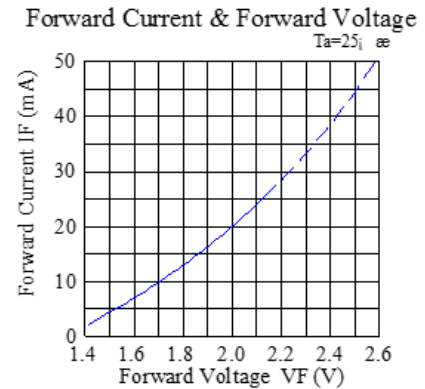
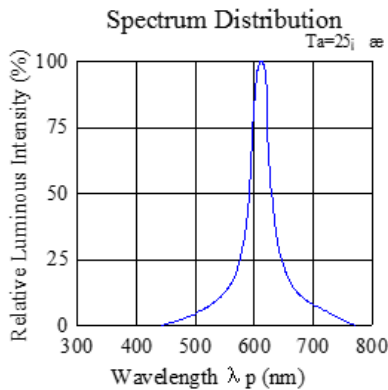
Tolerance of measurement of dominant wavelength: ±2nm

Characteristic Curves

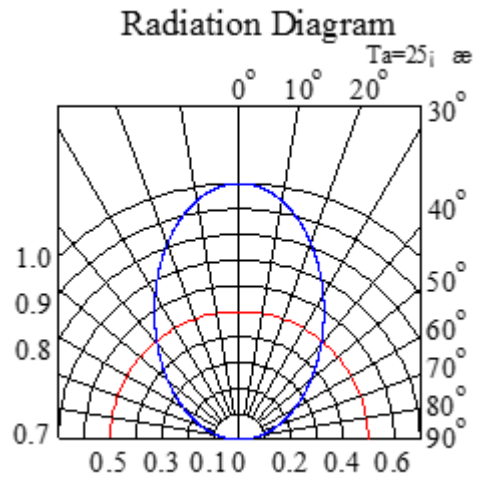
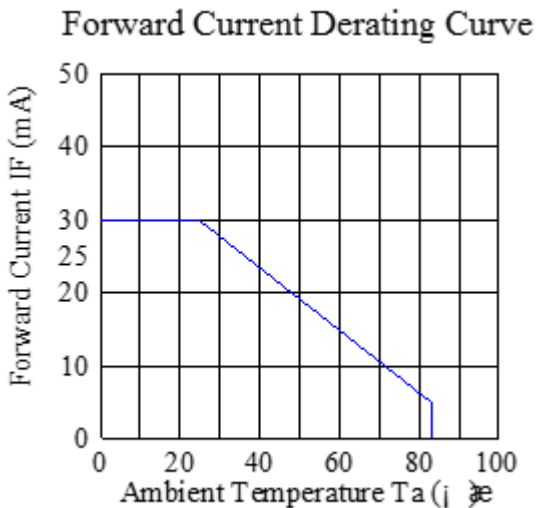
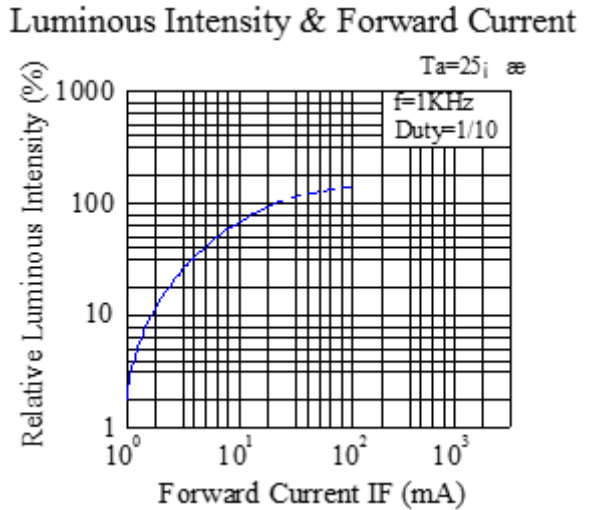
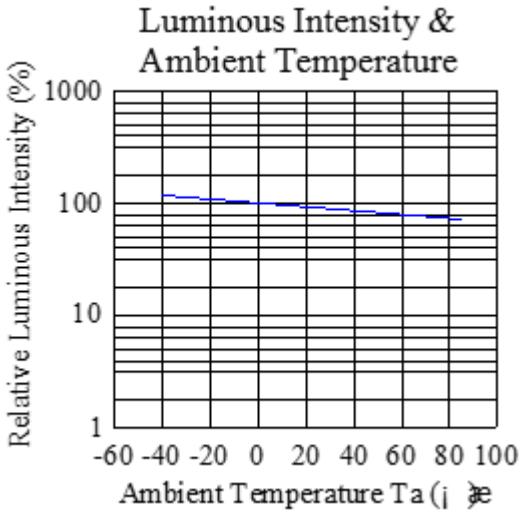
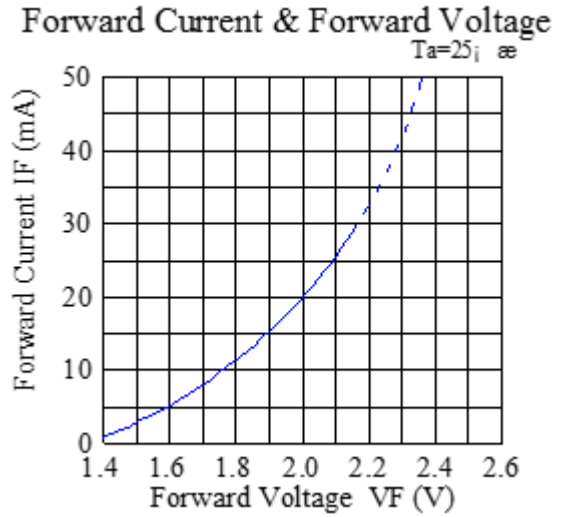
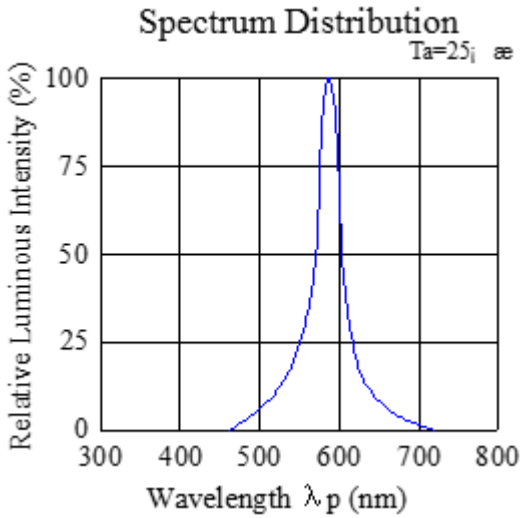
AlGaAs Deep Red



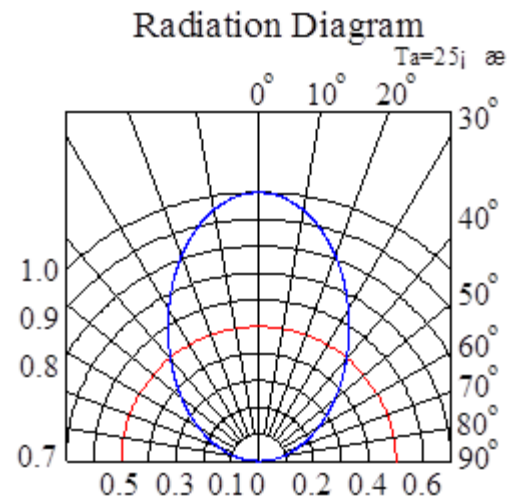
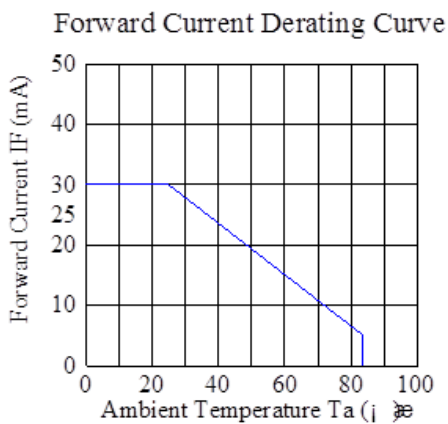
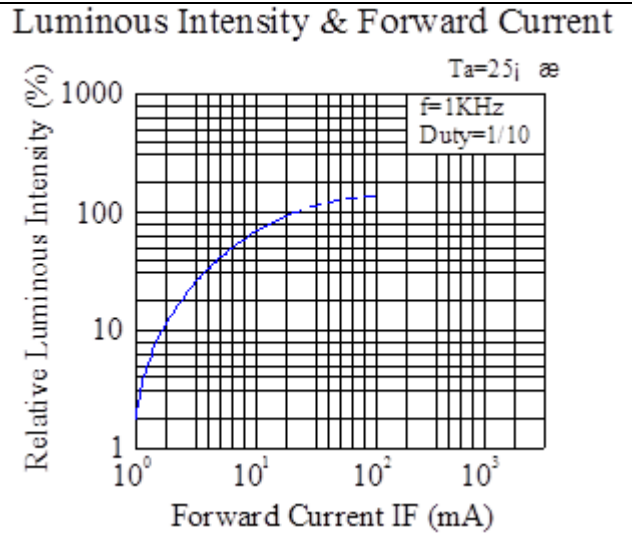
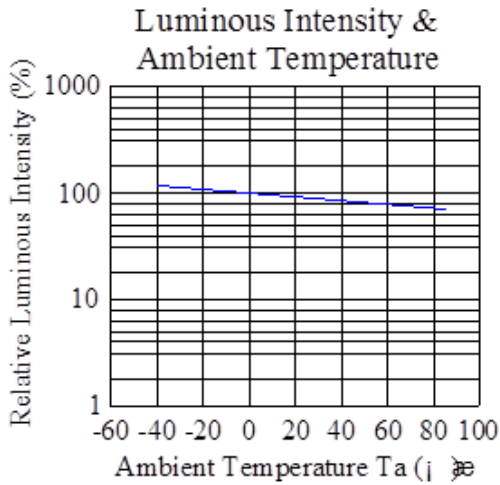
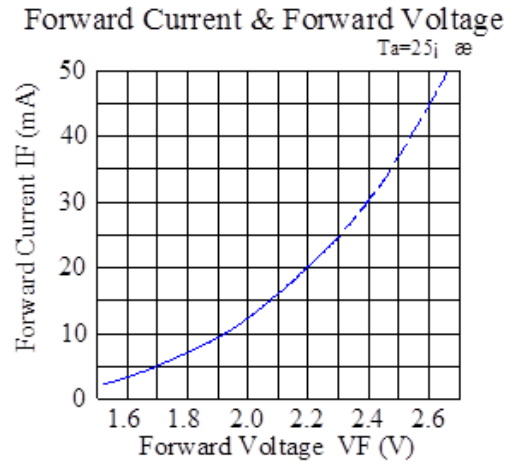
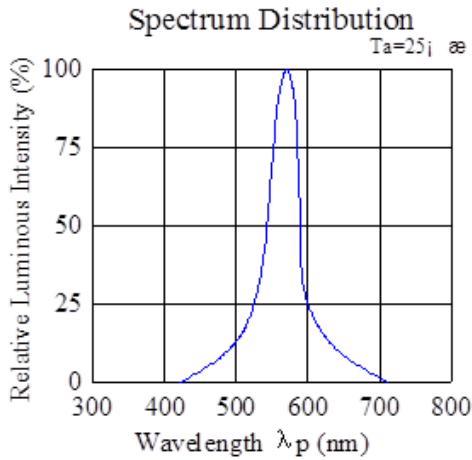
GaAsP Orange



GaAsP Yellow



GaP Yellow-Green



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 |
| | | |
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