QT-Brightek Lamp with Housing Series

3mm Round Lamp with Quad-level Housing

Part No.: QLA874B-4X_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 Tray
- 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.

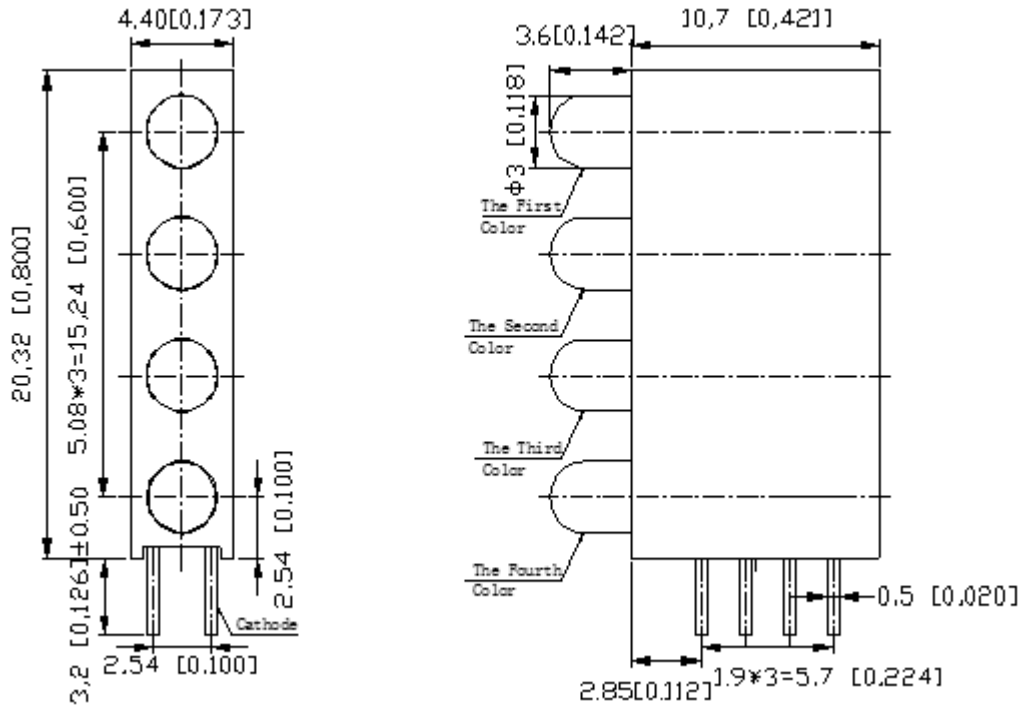
Description:

These 3mm round type lamps with quad-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.
QLA874B-4I	Deep Red	20	2.0	2.6	--	640	--	15	45
QLA874B-4A	Orange	20	2.0	2.6	--	603	--	13	30
QLA874B-4Y	Yellow	20	2.0	2.6	--	588	--	13	30
QLA874B-4G	GaP Green	20	2.2	2.6	--	570	--	13	30

Absolute Maximum Rating

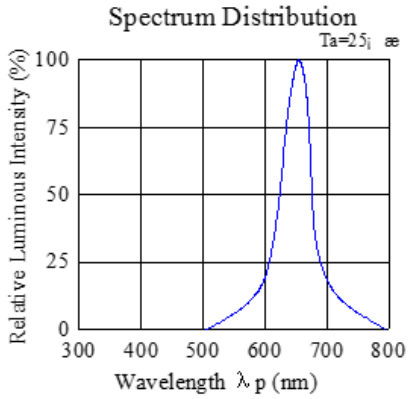
Material	P_d (mW)	I_F (mA)	I_{FP} (mA)*	V_R (V)	T_{OP} (°C)	T_{ST} (°C)	T_{SOL} (°C)**
AlGaAs	60	25	100	5	-40 to +80	-40 to +85	260
GaAsP	78	30	100	5	-40 to +80	-40 to +85	260
GaP	78	30	100	5	-40 to +80	-40 to +85	260

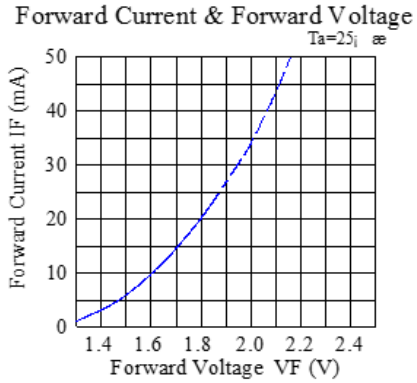
*Duty=0.1, 0.1ms Pulse Width
**Wave Soldering for no more than 3 sec @ 260°C

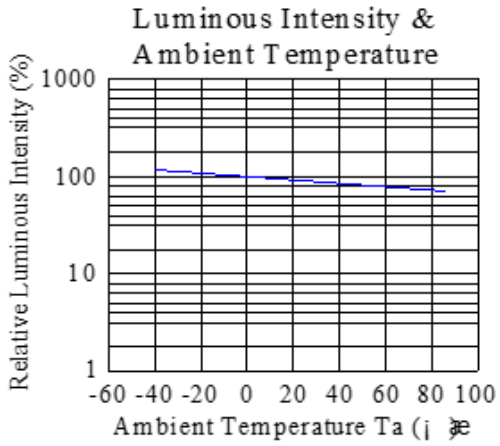
Note:
Tolerance of measurement of forward voltage: ±0.1V
Tolerance of measurement of luminous intensity: ±15%
Tolerance of measurement of dominant wavelength: ±2nm

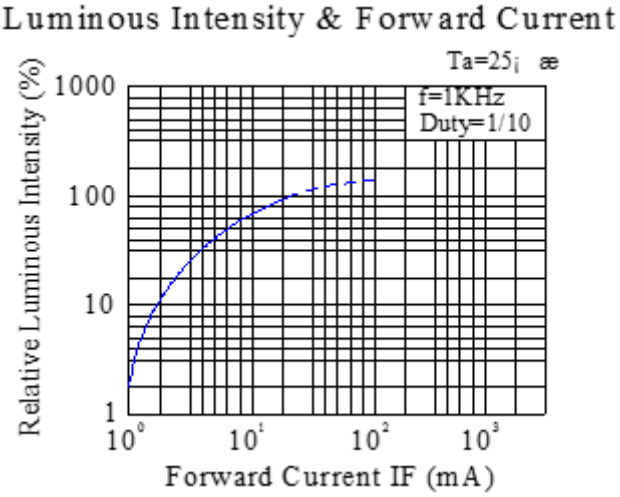
Characteristic Curves

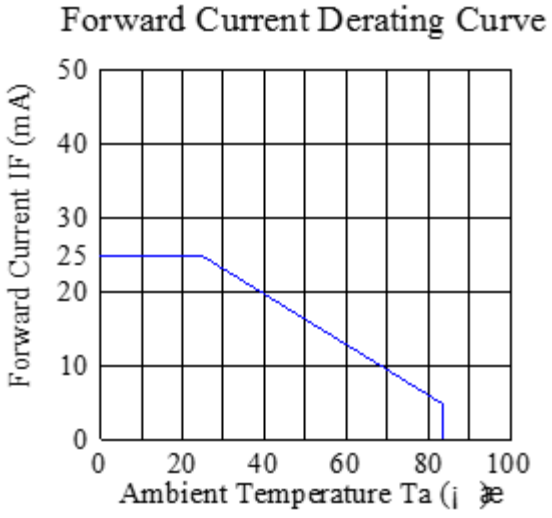
AlGaAs Deep Red

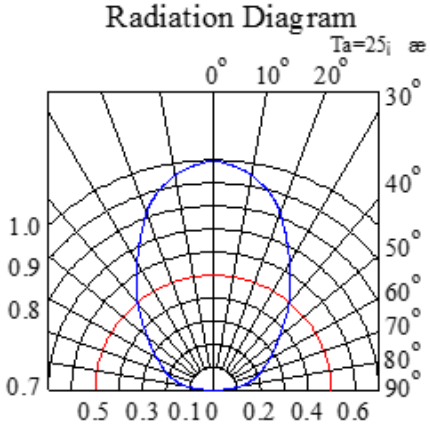




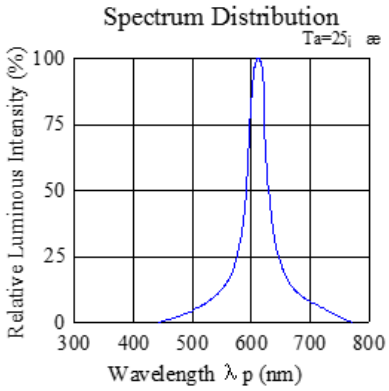


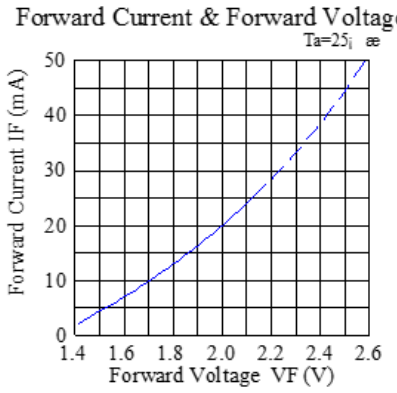


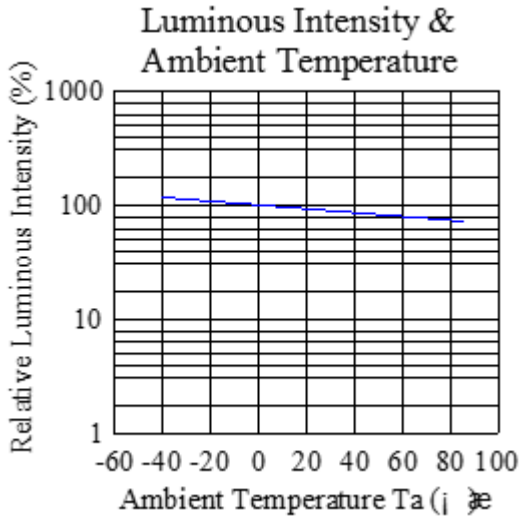


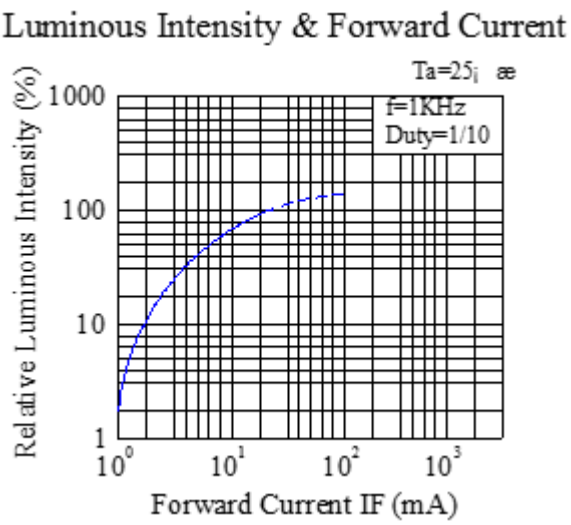


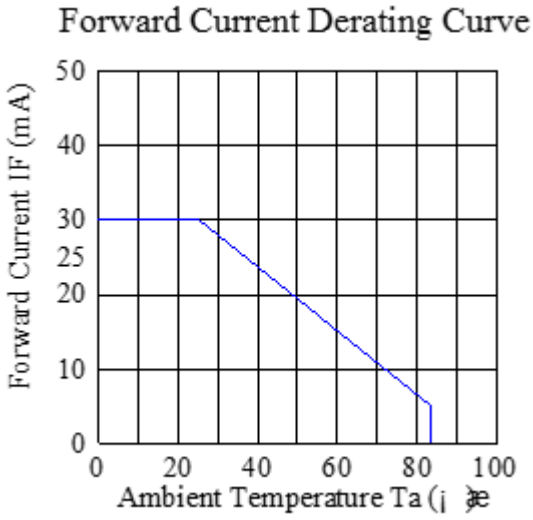
GaAsP Orange

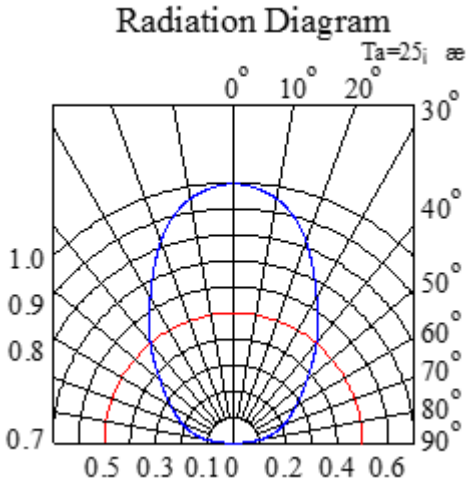






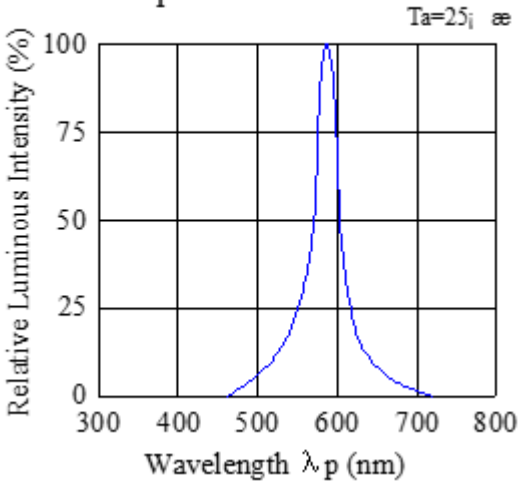




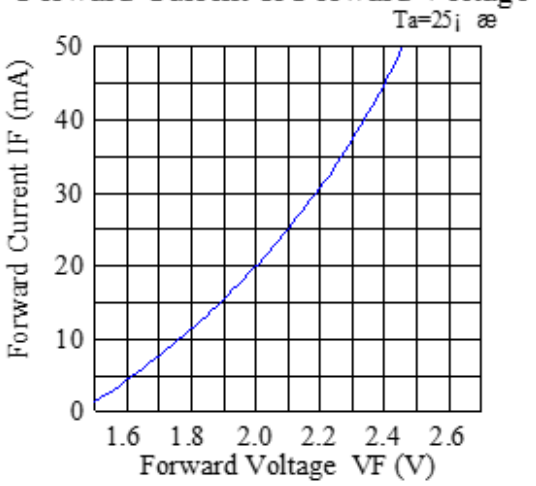


GaAsP Yellow

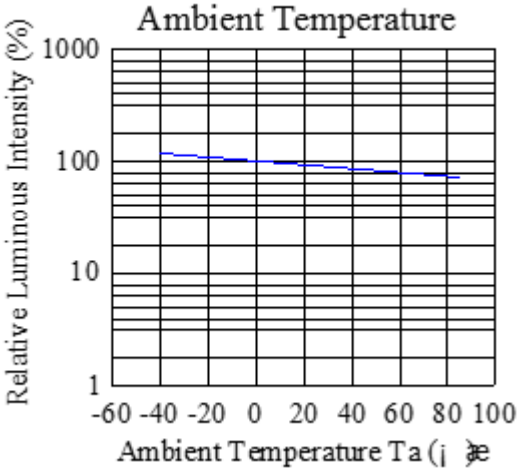
Spectrum Distribution



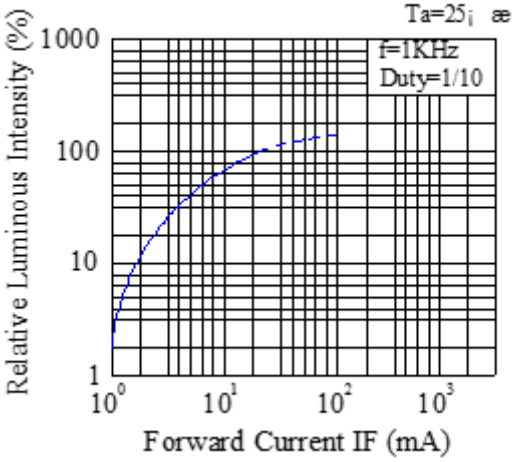
Forward Current & Forward Voltage



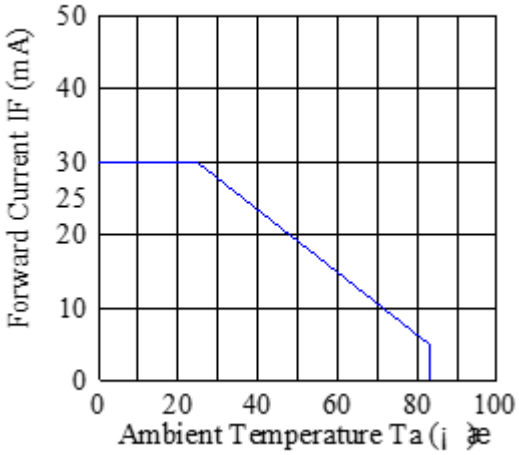
Luminous Intensity & Ambient Temperature



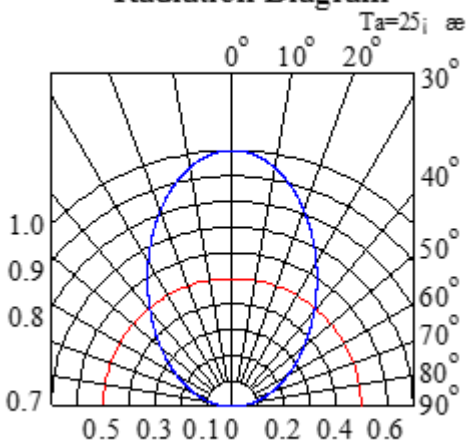
Luminous Intensity & Forward Current



Forward Current Derating Curve

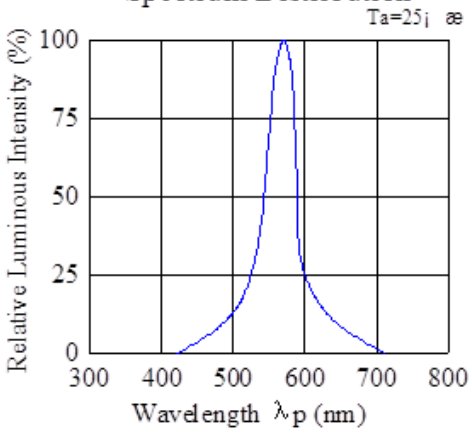


Radiation Diagram

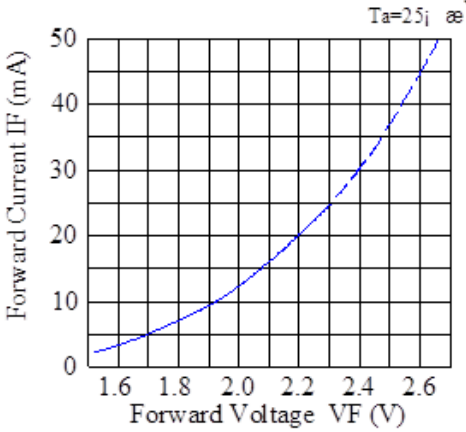


GaP Yellow-Green

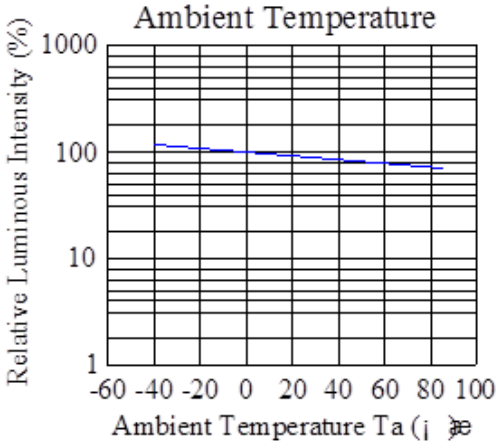
Spectrum Distribution



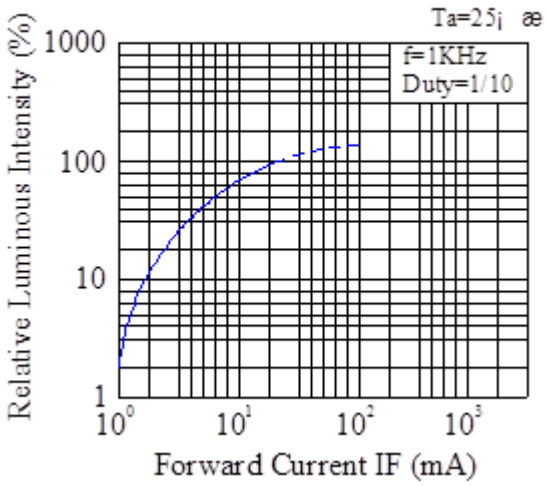
Forward Current & Forward Voltage



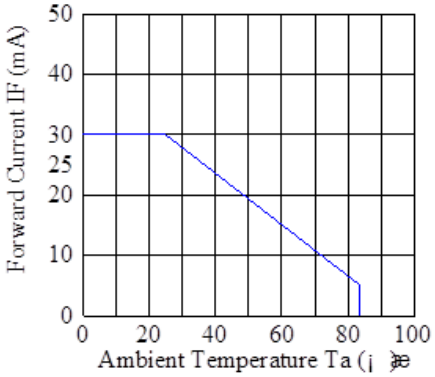
Luminous Intensity & Ambient Temperature



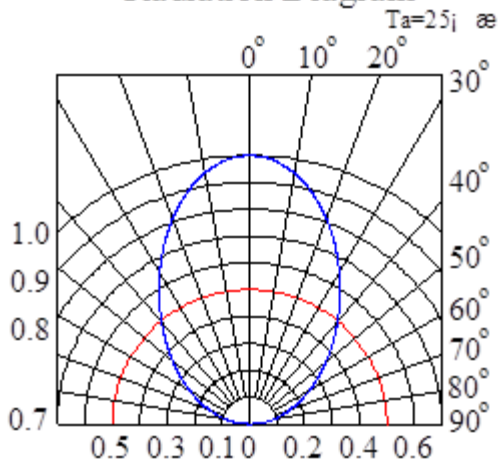
Luminous Intensity & Forward Current



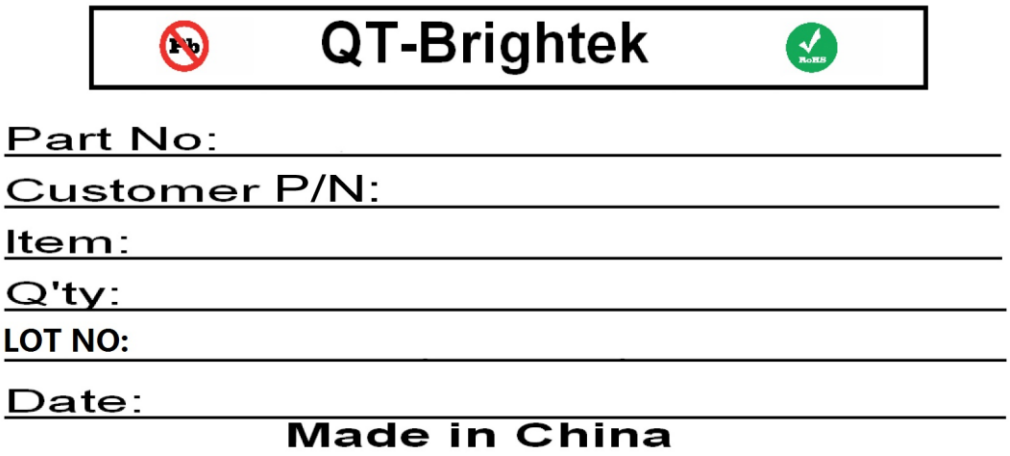
Forward Current Derating Curve



Radiation Diagram



Labeling



Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per Tray
QLA874B-4I	QLA874B-4I	Iv=45mcd typ. @ 20mA, λ_D=640nm typ.	300
QLA874B-4A	QLA874B-4A	Iv=30mcd typ. @ 20mA, λ_D=603nm typ.	300
QLA874B-4Y	QLA874B-4Y	Iv=30mcd typ. @ 20mA, λ_D=588nm typ.	300
QLA874B-4G	QLA874B-4G	Iv=30mcd typ. @ 20mA, λ_D=570nm typ.	300

Revision History

Description:	Revision #	Revision Date
New Release of QLA874B-4X_series	V1.0	06/29/2016
Update label content	V1.1	12/15/2016

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.