

QT-Brightek Lamp Series

3mm Flat Top Cylindrical Lamp

Part No.: QBFL7Y110CL Series

L: Low Profile (Lens Height: 3.85mm)

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Introduction

Feature:

- Water clear lens
- Package in bulk pack
- 3mm flat top cylindrical lamp
- AlInGaP technology
- Viewing Angle: 110° typ.
- Height profile: 3.85mm

Application:

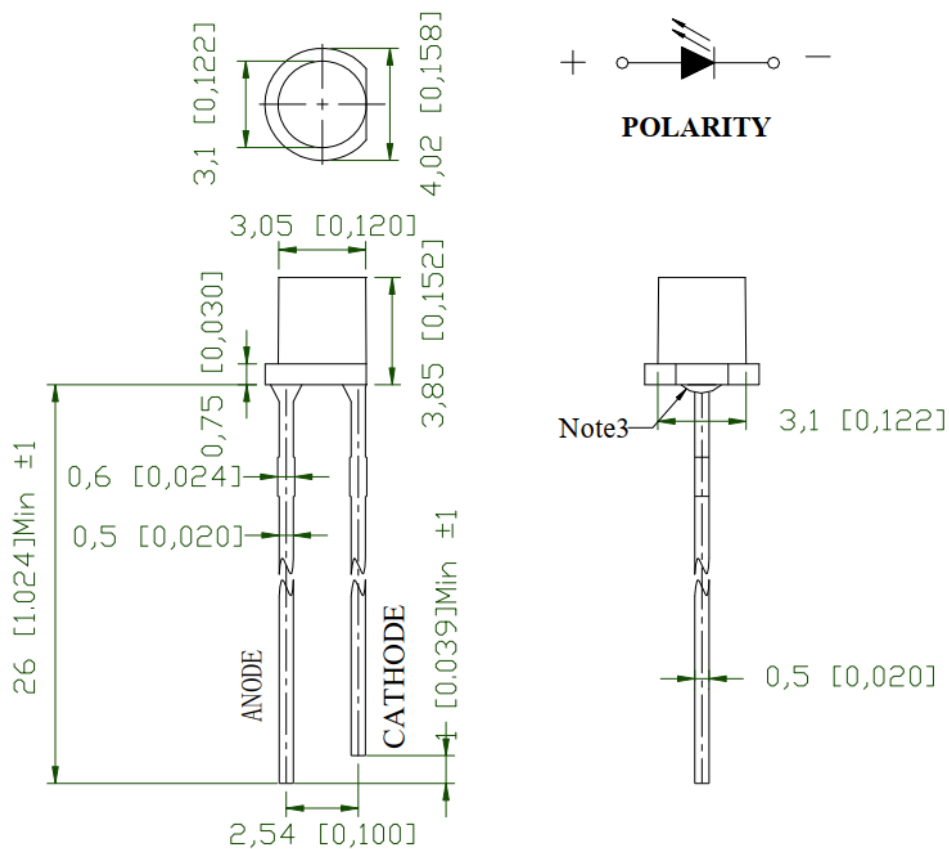
- General purpose indicator application
- Electronic signs and electronics board
- Circuit board

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.25mm unless otherwise noted

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _d (nm)	I _v (mcd)	
			Typ.	Max.	Typ.	Min.	Typ.
QBFL7Y110CL	Yellow	20	2.0	2.4	590	70	120

Absolute Maximum Rating

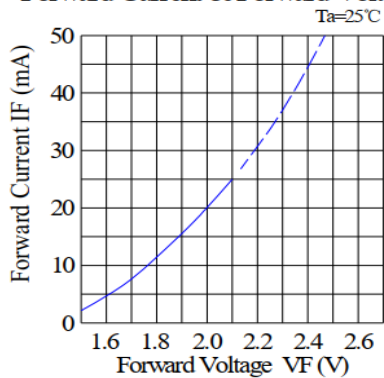
Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{sol} (°C)**
AlInGaP	65	25	100	5	-40 to + 85	-40 to +100	260

*Duty 1/10, 0.1ms pulse width

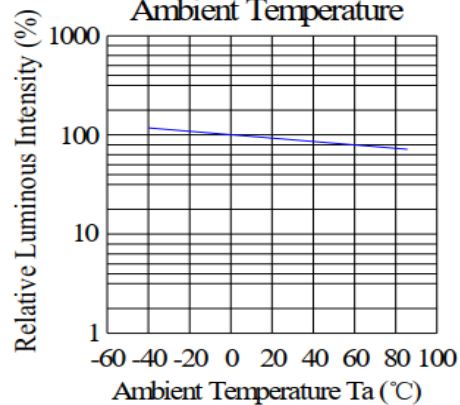
**Wave Soldering for no more than 5 sec @ 260 °C

Characteristic Curves

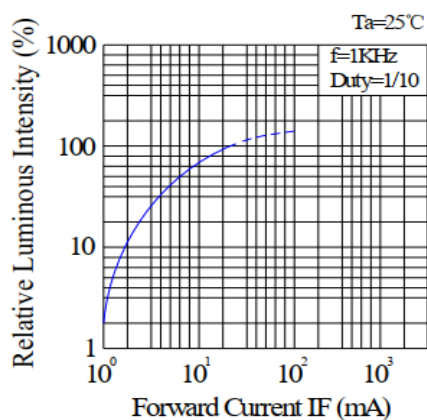
Forward Current & Forward Voltage



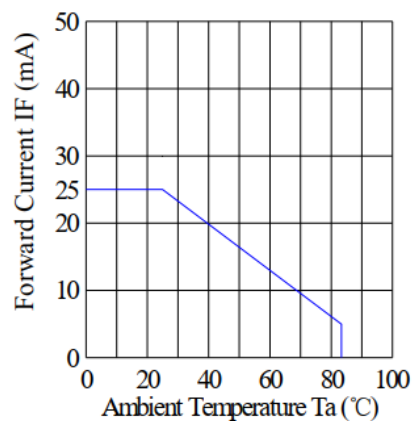
Luminous Intensity & Ambient Temperature



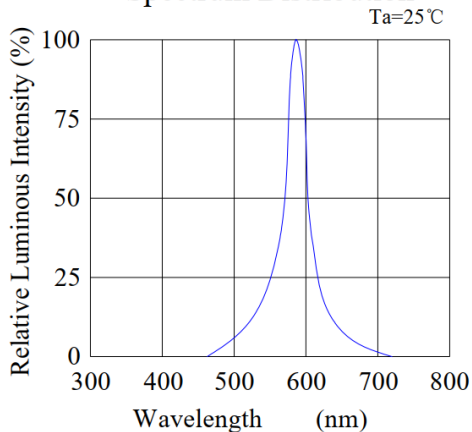
Luminous Intensity & Forward Current



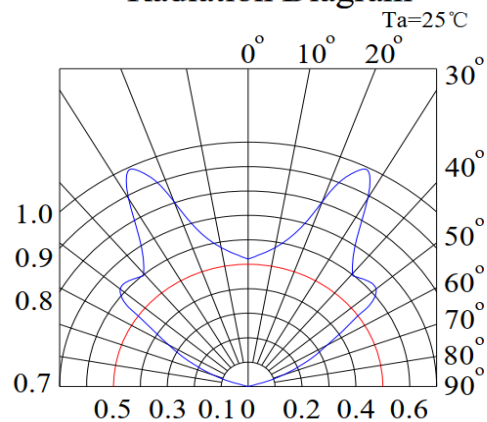
Forward Current Derating Curve



Spectrum Distribution



Radiation Diagram





Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per bag
QBFL7Y110CL	QBFL7Y110CL	Iv=120mcd typ. @ 20mA, λ_d =590nm typ.	500pcs



Revision History

Description:	Revision #	Revision Date
New Release of QBFL7Y110CL	V1.0	10/03/2018

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.