QT-Brightek Lamp Series

3mm Flat Top Cylindrical Lamp

Part No.: QBFL7Y110CL Series

L: Low Profile (Lens Height: 3.85mm)

Table of Contents:

Introduction

| Feature:	Application:
• Water clear lens • Package in bulk pack • 3mm flat top cylindrical lamp • AlInGaP technology • Viewing Angle: 110° typ. **Description:** These 3mm flat top round lamps with 3.85mm lens height are suitable for all indicator applications.	• General purpose indicator application • Electronic signs and electronics board • Circuit board **Certification & Compliance:** • TS16949 • ISO9001 • RoHS Compliant

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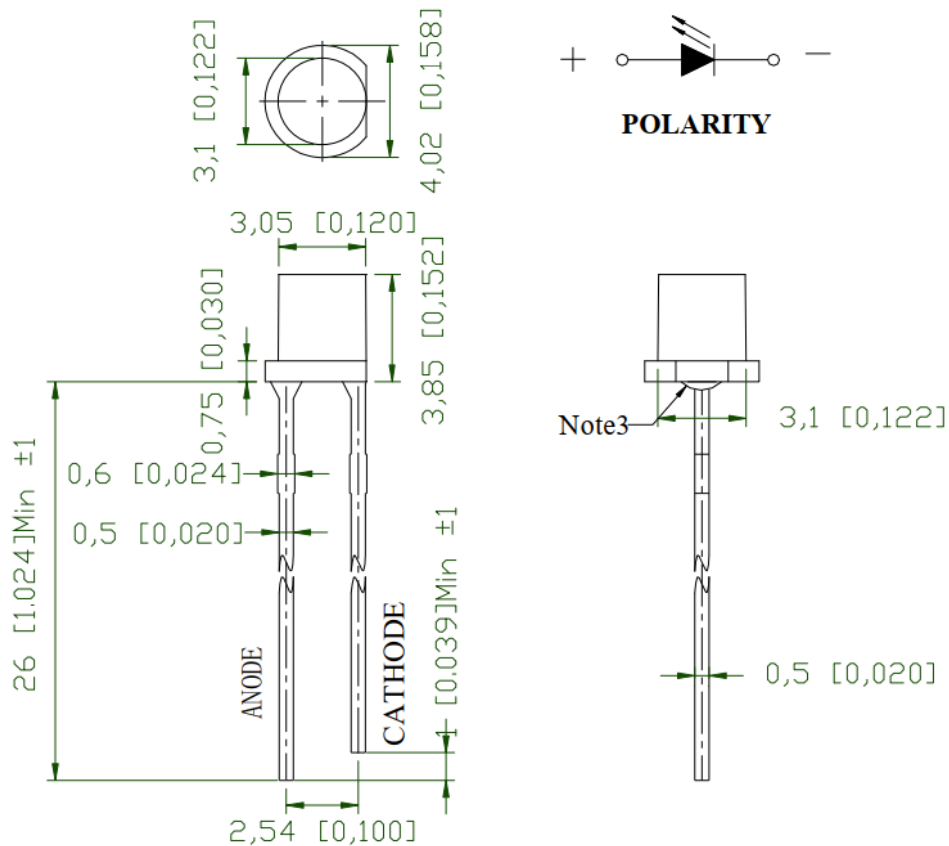
Units: mm / tolerance = +/-0.25mm unless otherwise noted

Electrical / Optical Characteristic (Ta=25°C)

Product	Color	I_F (mA)	V_F (V)		λ_d (nm)	Iv (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} (^{o}C)	T_{ST} (^{o}C)	T_{sol} (^{o}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
Ta=25℃

Luminous Intensity & Ambient Temperature

Luminous Intensity & Forward Current
Ta=25℃
f=1KHz
Duty=1/10

Forward Current Derating Curve

Spectrum Distribution
Ta=25℃

Radiation Diagram
Ta=25℃
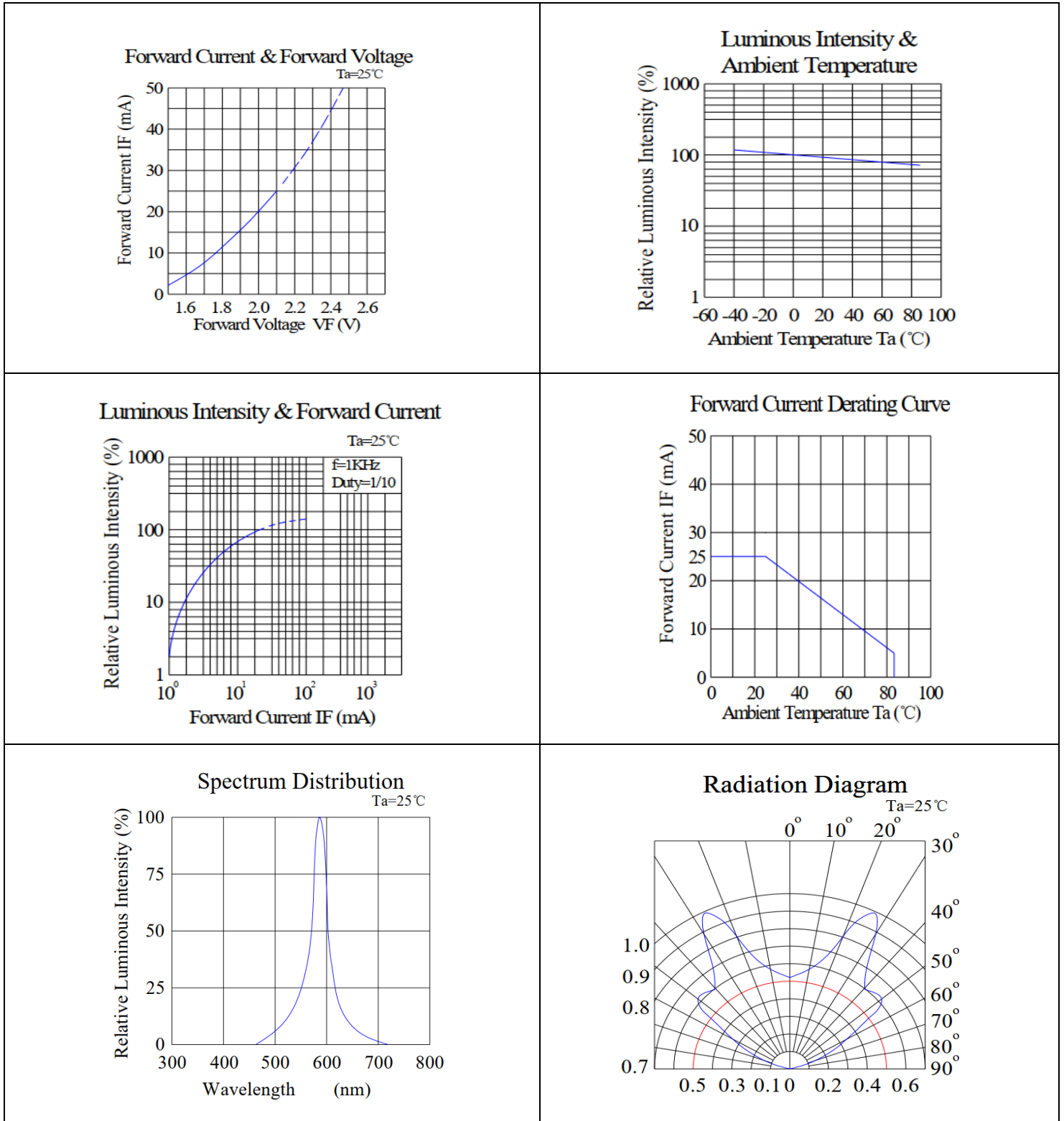
Ordering Information

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

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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.