

QT-Brightek Lamp Series
5mm Bi-Color Round Lamp

Part No.: QBL8RAG30D1

30: Viewing Angle 30 Deg Typical
D: White Diffused Lens
1: Common Cathode

Product: QBL8RAG30D1	Date: June 24 th , 2022	Page 1 of 8
	Version# 1.1	



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Introduction

Feature:

- White diffused lens
- Bi-Color Red (R) 624nm + Green (AG) 570nm
- Package in bulk pack
- Super bright 5mm round lamp
- AllnGaP technology
- Viewing angle: 30° typ.
- 1: Common cathode

Description:

These super bright 5mm round type lamps with 8.6mm lens height are suitable for all applications requiring higher brightness.

Application:

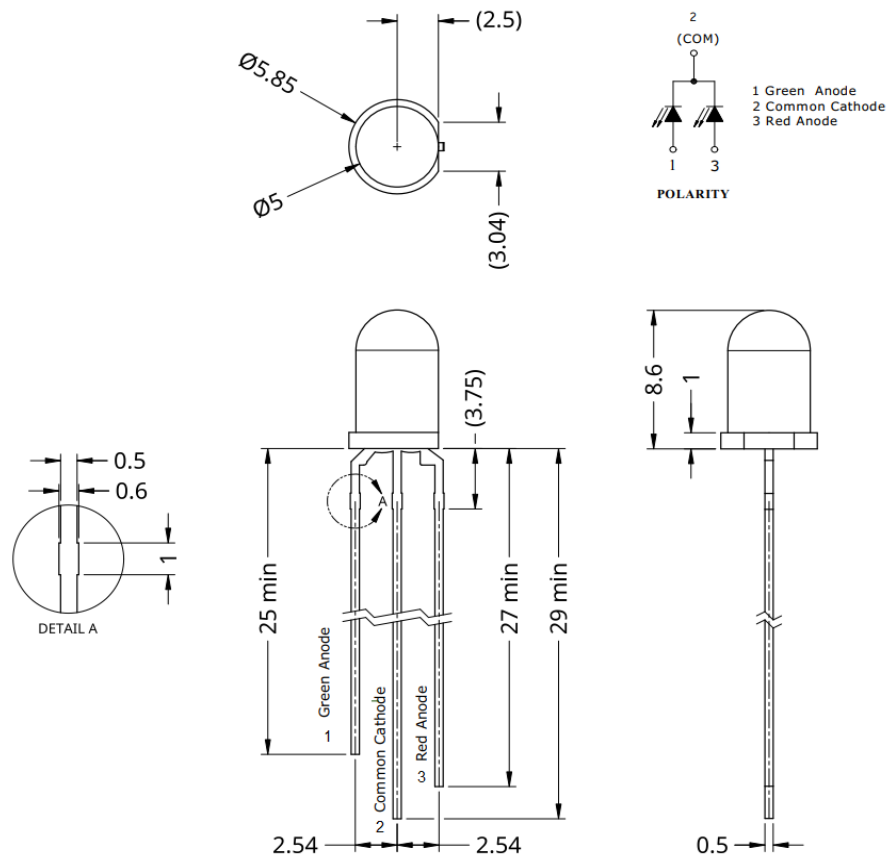
- General purpose indicator application
- Electronic signs and electronics board
- LED lighting

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / Unidentified tolerance = +/-0.25mm

Electrical / Optical Characteristic (Ta=25°C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)	λ _P (nm)	I _V (mcd)	
			Typ.	Max.	Typ.	Typ.	Min.	Typ.
QBL8RAG30D1	Red	20	2.0	2.4	624	632	600	1000
	Green		2.0	2.4	570	573	210	350

Absolute Maximum Rating

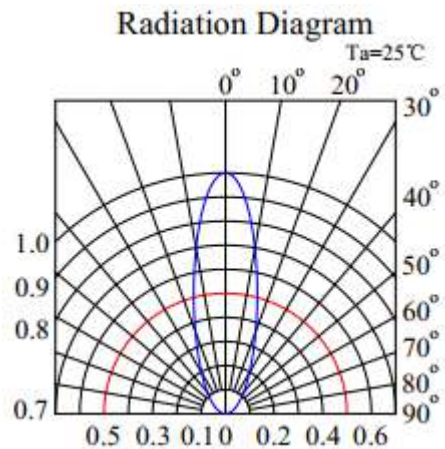
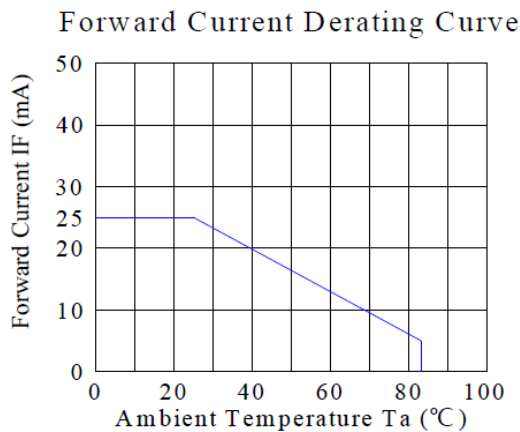
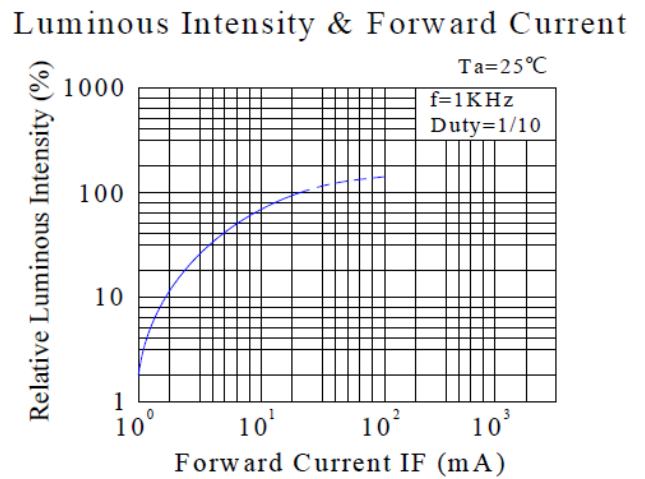
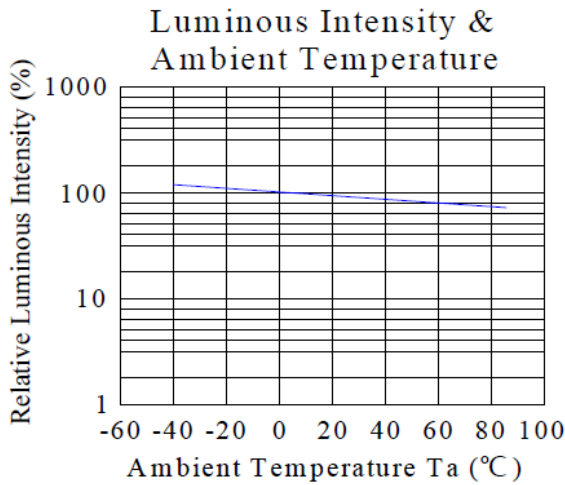
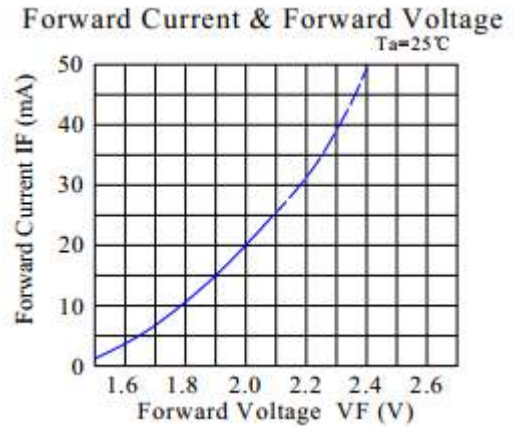
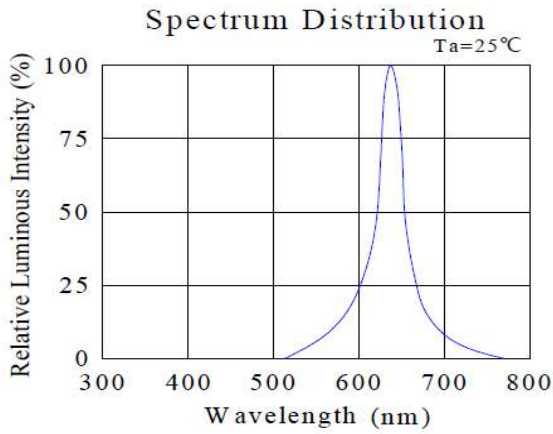
Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AllnGaP	60	25	100	5	-40 to +85	-40 to +100	260

*Duty Factor =10% @ 1KHz

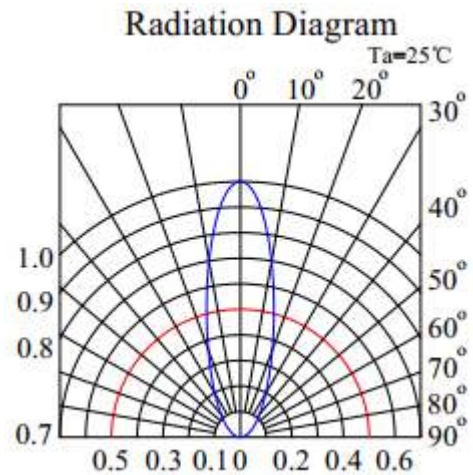
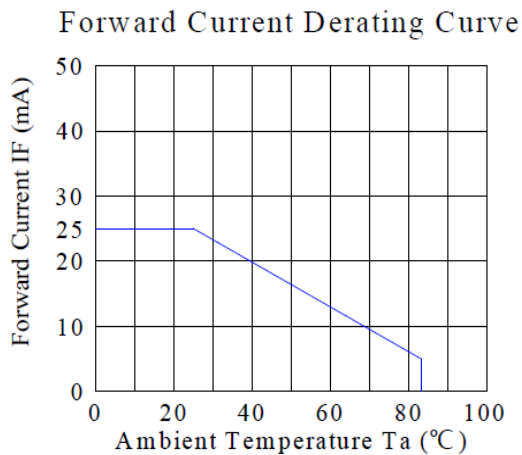
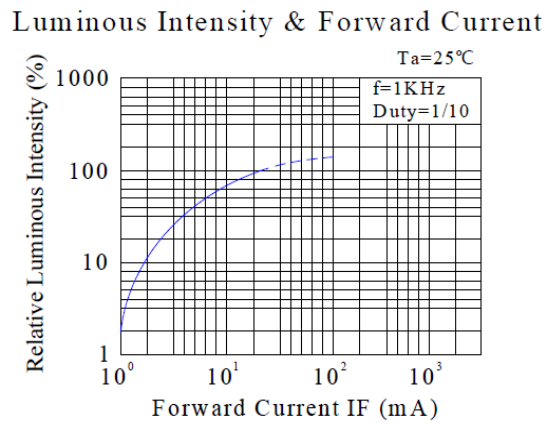
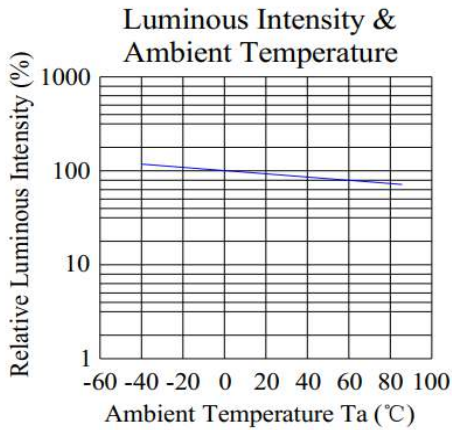
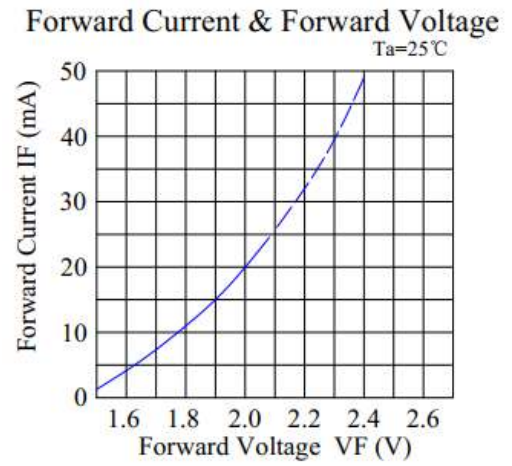
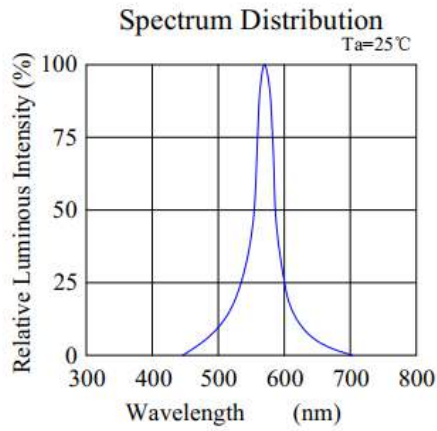
**Wave soldering for no more than 5 sec @ 260 °C

Characteristic Curves

Red (R)



Green (AG)





QBL8RAG30D1

5mm Bi-Color Round Lamp

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL8RAG30D1	QBL8RAG30D1	Red: $I_v=1000\text{mcd typ. @ } I_F=20\text{mA, } \lambda_D=624\text{nm typ.}$	500pcs
		Yellow Green: $I_v=350\text{mcd typ. @ } I_F=20\text{mA, } \lambda_D= 570\text{nm typ.}$	



Revision History

Description:	Revision #	Revision Date
New Release of QBL8RAG30D1	V1.0	07/18/2020
Drawing Update	V1.1	06/24/2022

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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.