



# 5mm RGB Tri-Color Round Lamp

# Part No.: QBL8RGB25C0

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### Introduction

Feature:	Application:
• Clear lens	• General purpose indicator application
• Tri-Color (RGB)	• Electronic signs and electronics board
Common anode	• LED lighting
• Package in bulk pack	
• Super bright 5mm round lamp	
• InGaN technology for IB/IG	Certification & Compliance:
• AllnGaP technology for R	• TS16949
• 25° viewing angle	• ISO9001
• 0: Common Anode	RoHS Compliant
<b>Description:</b> These super bright 5mm round type lamps with 8.65mm lens height are suitable for all applications requiring higher brightness.	ROHS

#### **Dimension:**



#### Units: mm / Unidentified tolerance = +/-0.2mm

25.00[0.984]

1.27 [0.050]

3.81 [0.150]

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### Electrical / Optical Characteristic (T=25°C)

Product Color I		Color I <sub>F</sub> (mA)		:(V)	/) λ <sub>D</sub> (nm)			lv(mo	cd)
Froduct	COIOI	l <sub>F</sub> (mA)	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
	Red		2.0	2.5	-	624	-	800	1300
QBL8RGB25C0	Green	20	3.2	3.6	-	525	-	2000	4000
	Blue		3.2	3.6	-	470	-	400	700

### **Absolute Maximum Rating**

Material	P₀ (mW)	l⊧ (mA)	IFP (mA)*	Vr (V)	Τορ (°C)	Тѕт (°С)	Tso∟ (°C)**
AllnGaP (R)	60	25	100	5	-25 to + 80	-40 to +85	260
InGaN (IB/IG)	90	25	100	5	-25 to + 80	-40 to +85	260

\*Duty 1/10 @ 1KHz

\*\*Wave soldering for no more than 5 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

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#### **Characteristic Curves**



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## Packing



c. 6 Inner Boxes/Outside Box.

### **Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL8RGB25C0 QBL8RGB25C0	Red: Iv=1300mcd typ. @ I⊧=20mA, λ⊳=624nm		
	Green: Iv=4000mcd typ. @ I <sub>F</sub> =20mA, λ <sub>D</sub> = 525nm	1000pcs	
	Blue: lv=700mcd typ. @ I⊧=20mA,		
		λ <b>D=470nm</b>	

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#### **Revision History**

Description:	Revision #	Revision Date
New Release of QBL8RGB25C0	V1.0	02/19/2019

### Disclaimer

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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.

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