

QT-Brightek Lamp Series

5mm IR Lamp LED

Part No.: QBL8IR215PKT

IR2: 880nm

PKT: Pink Transparent Lens (Peach Tinted Lens)

Product: QBL8IR215PKT	Date: December 22, 2022	Page 1 of 7
	Version# 1.0	

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Introduction

Feature:

- Peach (pink) tinted lens
- Package in bulk
- High radiant intensity
- Peak wavelength $\lambda_p=880\text{nm}$
- Viewing angle: 15deg typ.

Description:

This IR device is spectrally match with phototransistor, photodiode, and infrared receiver module

Application:

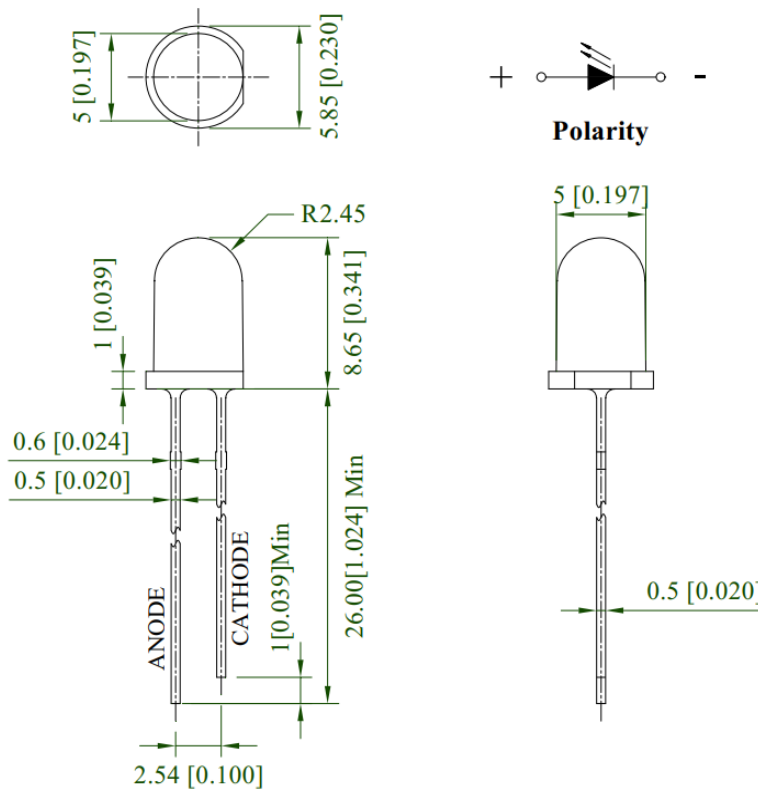
- Free air transmission system
- Optoelectronic switch
- Infrared applied system
- Smoke Detector

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.2mm

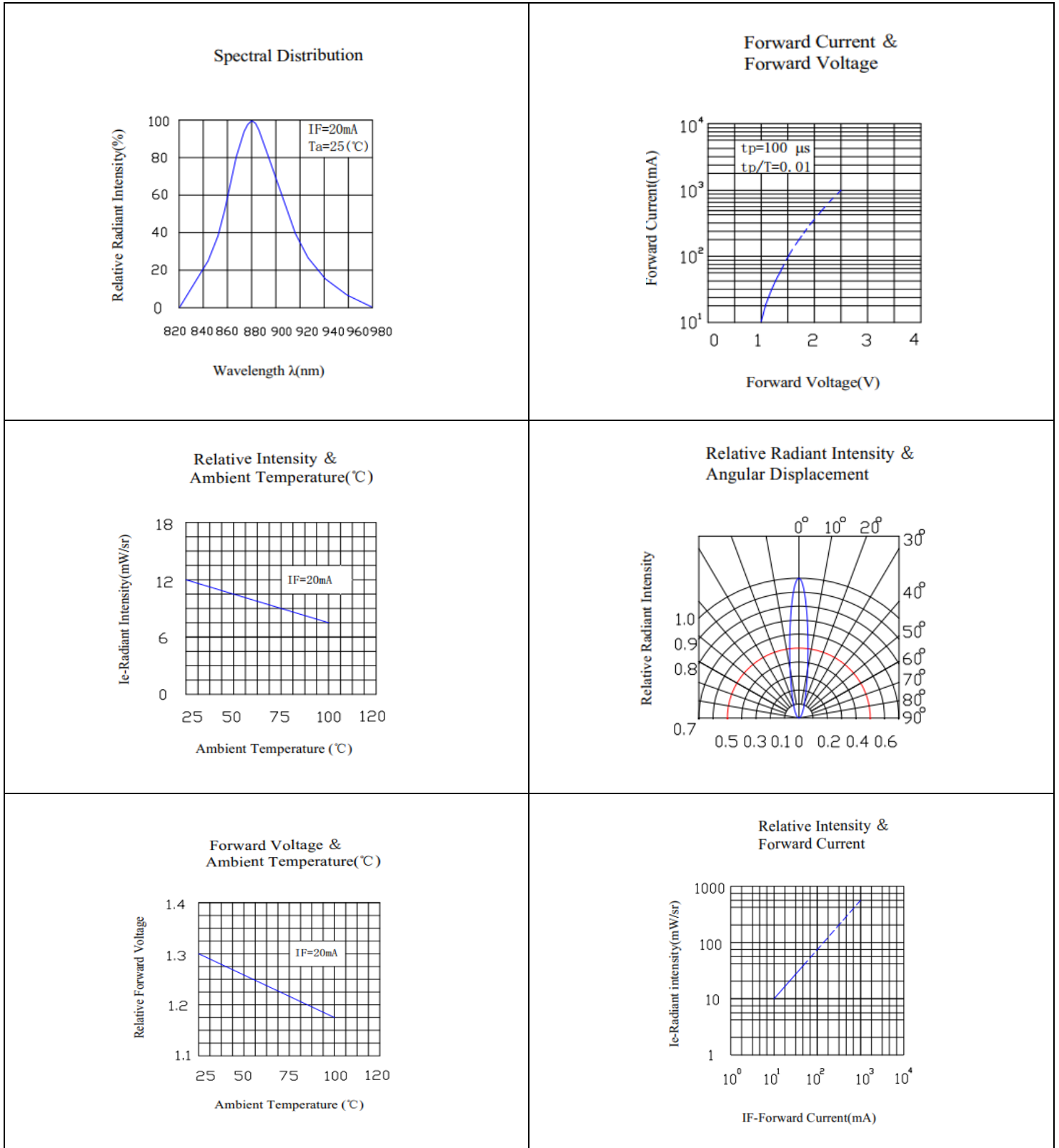
Electrical / Optical Characteristic (Ta=25 °C)

Parameter	Symbol	Test Condition	Output			Units
			Min.	Typ.	Max.	
Forward Voltage	V _F	I _F =20mA	1.00	1.30	1.60	V
		I _F =50mA	1.20	1.50	1.80	
Reverse Current	I _R	V _R =5V	-	-	10	μA
Radiant Intensity	I _E	I _F =20mA	7.8	15	-	mW/sr
		I _F =50mA	20	45	-	
Peak Emission Wavelength	λ _P	I _F =20mA	-	880	-	nm
Half Spectrum Width	Δλ	I _F =20mA	-	45	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	15	-	deg

Absolute Maximum Rating

Parameter	Symbol	Rating	Units
Continuous Forward Current	I _F	100	mA
Peak Forward Current (Duty Factor=10%, Frequency=1kHz)	I _{FP}	1	A
Reverse Voltage	V _R	5	V
Power Dissipation	P _d	160	mW
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C

Characteristic Curves





QBL8IR215PKT

5mm IR Lamp

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL8IR215PKT	QBL8IR215PKT	I _e =15mW mW/sr. typ. @ I _F =20mA, λ _P =880nm typ.	500pcs



Revision History

Description:	Revision #	Revision Date
New Release of QBL8IR215PKT	V1.0	12/22/2022

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.