

QT-Brightek UV LED Series

UVC LED

Part No.: QBHP684E-UV265X

**UV265 : Wavelength
X: 20mA or 100mA**

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Preliminary	Version# 1.0	

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Introduction

Feature:

- UVC LED
- Clear Lens
- Packed in tape and reel
- ESD rating: 8KV (HBM)
- Viewing Angle: 120°

Description:

This UV LED has compact size of 3.5 x 3.5mm. It is ideal for various UV applications.

Application:

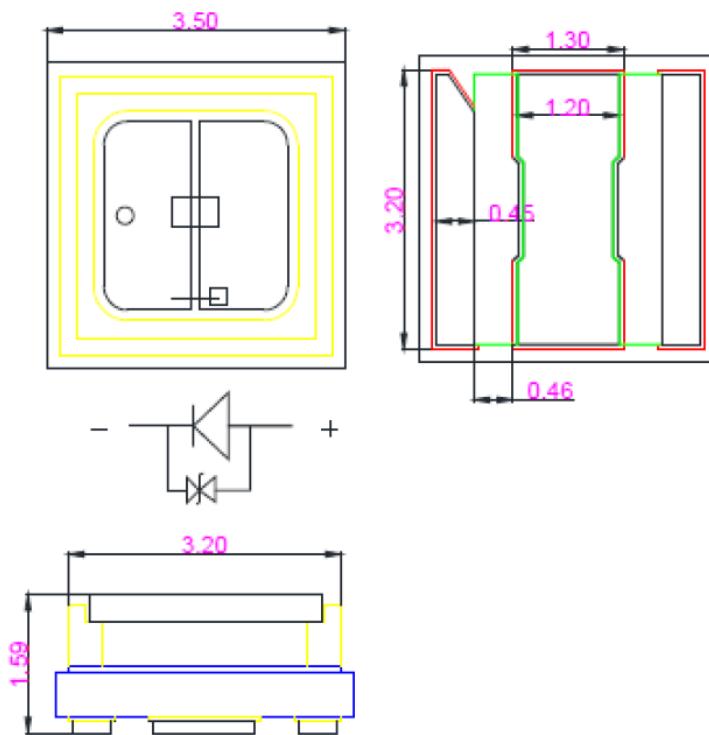
- UV marking
- Purification
- Inspection
- Sterilization and Disinfection

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Outline Dimensions:



Units: mm / tolerance = +/-0.2mm

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Electrical / Optical Characteristic (Ta=25 °C)

Part Number	Color	I _F (mA)	V _F (V)			λ _p (nm)			P _o (mW)		
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
QBHP684E-UV265	UVC	20	5.0	6.0	6.5	260	265	270	1.6	2.5	-
QBHP684E-UV265N	UVC	100	5.0	6.0	6.5	260	265	270	7	10	-

Absolute Maximum Rating

Part Number	P _d (mW)	I _F (mA)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)
QBHP684E-UV265	260	40	-10 to +50	-40 to +100	260
QBHP684E-UV265N	1000	150	-10 to +50	-40 to +100	260

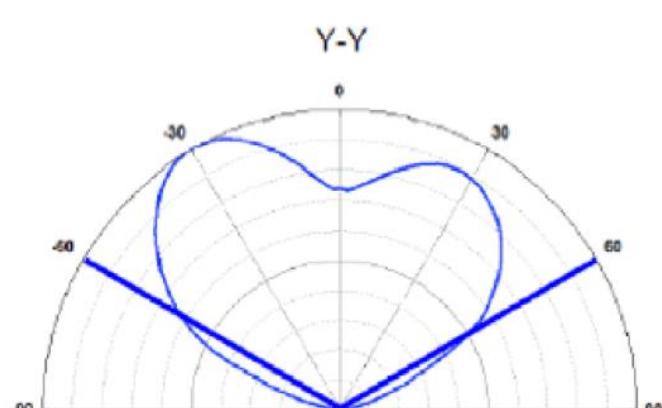
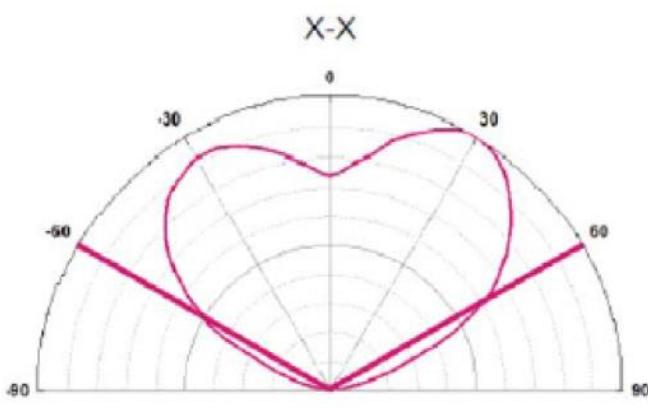
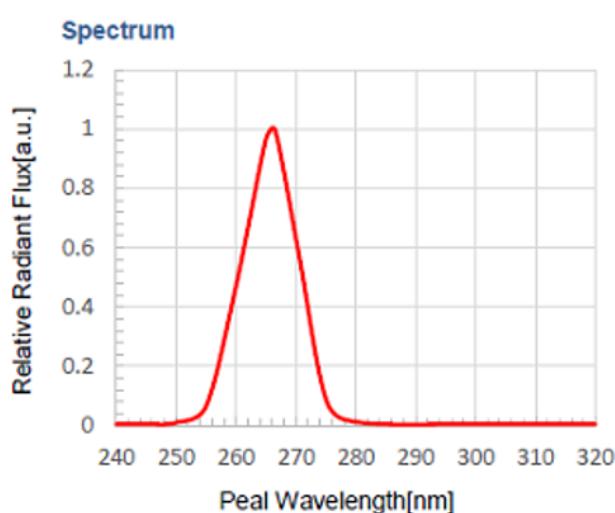
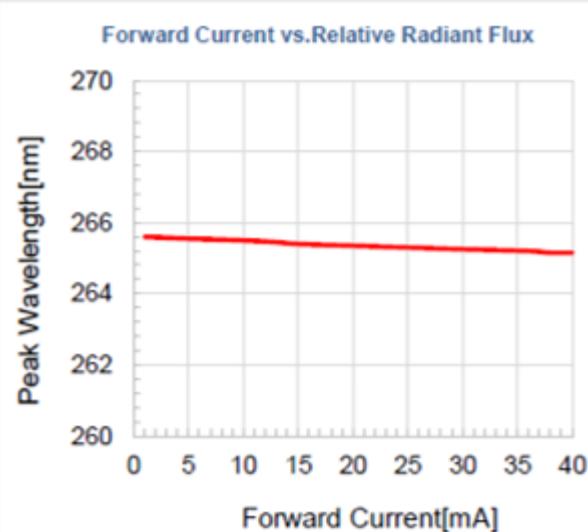
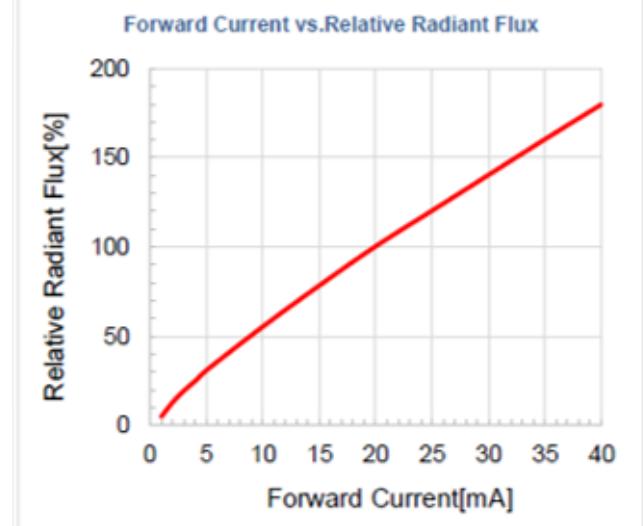
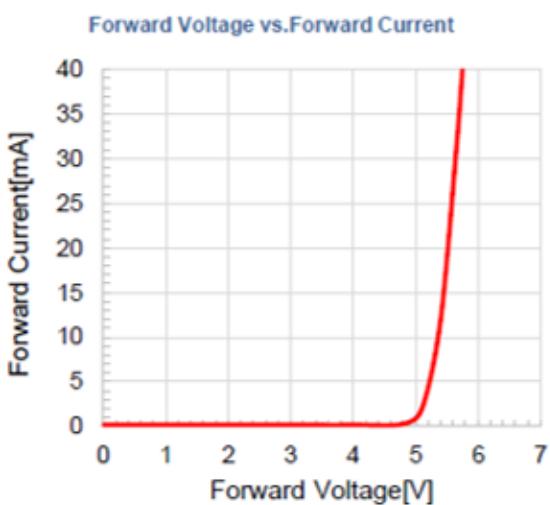
Tolerance of measurement of forward voltage: ±0.1V

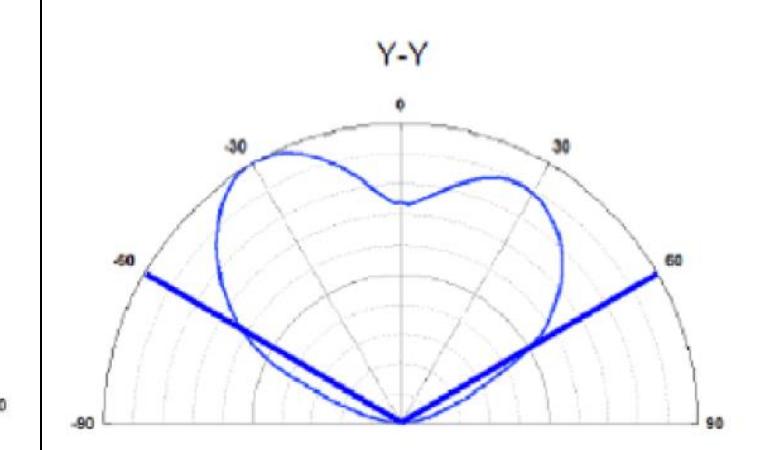
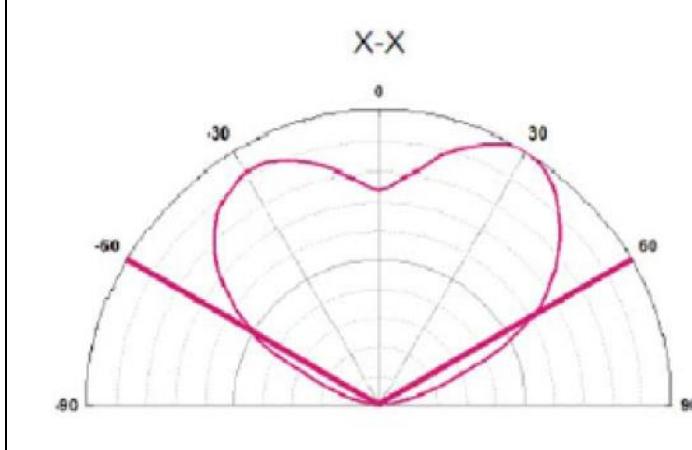
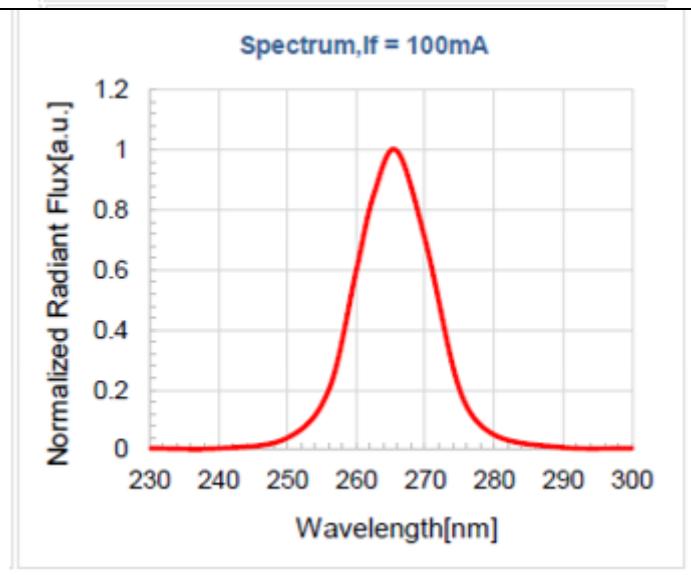
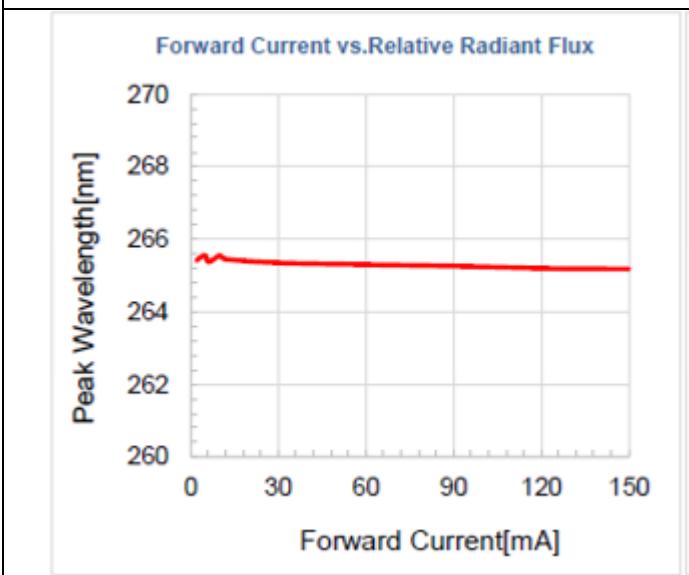
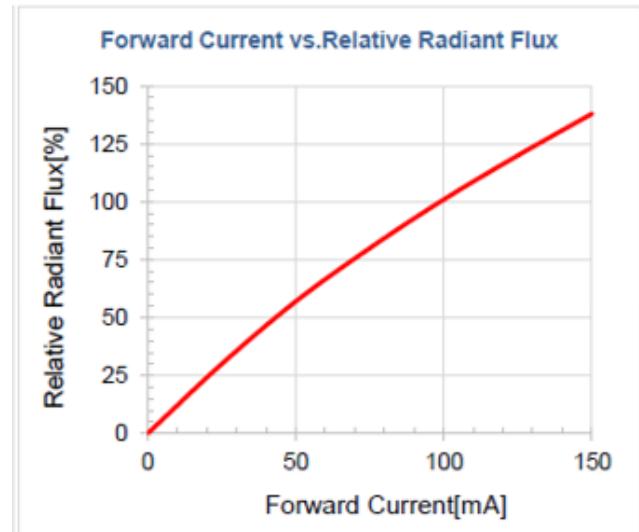
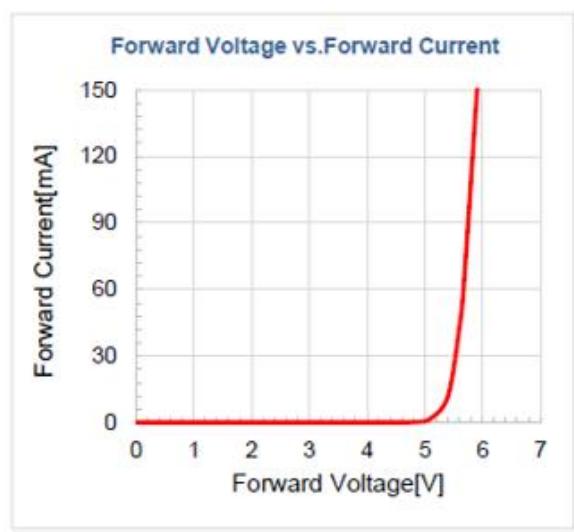
Tolerance of measurement of Radiometric Power: ±10%

Tolerance of measurement of dominant wavelength: ±5nm

Characteristic Curves

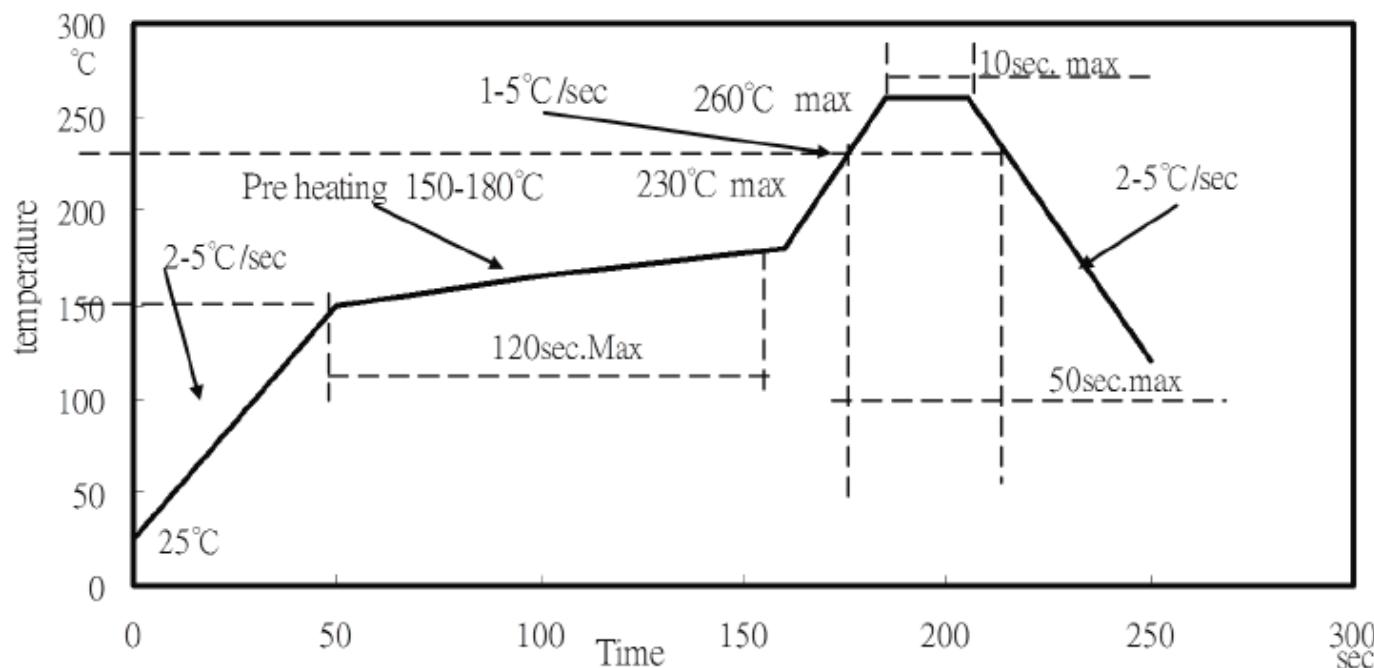
QBHP684E-UV265



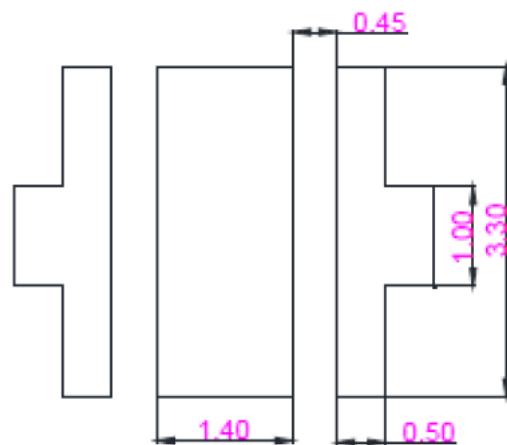
QBHP684E-UV265N

IR Reflow Soldering Profile

Lead Free solder



Recommended Soldering Pad:

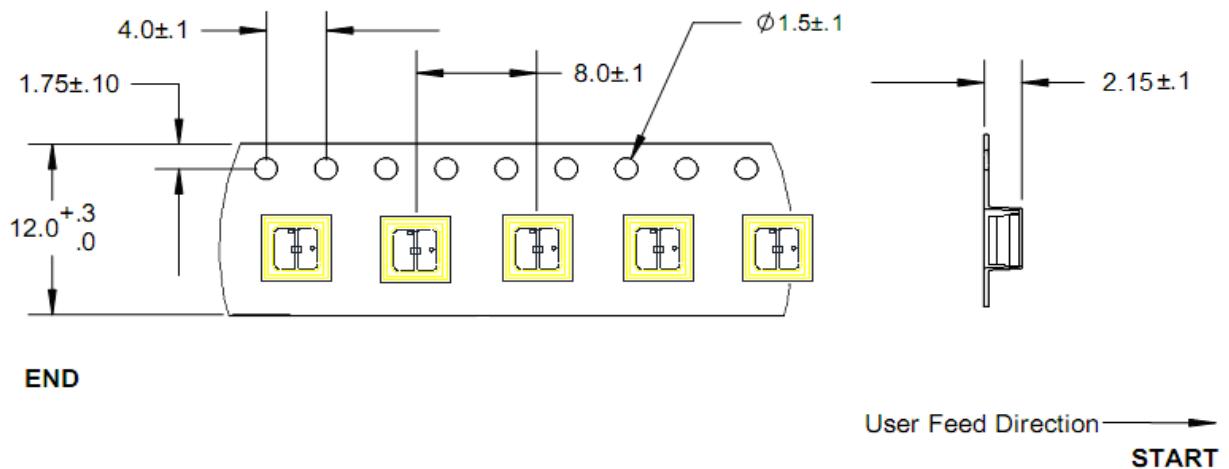


Unit: mm

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Packing

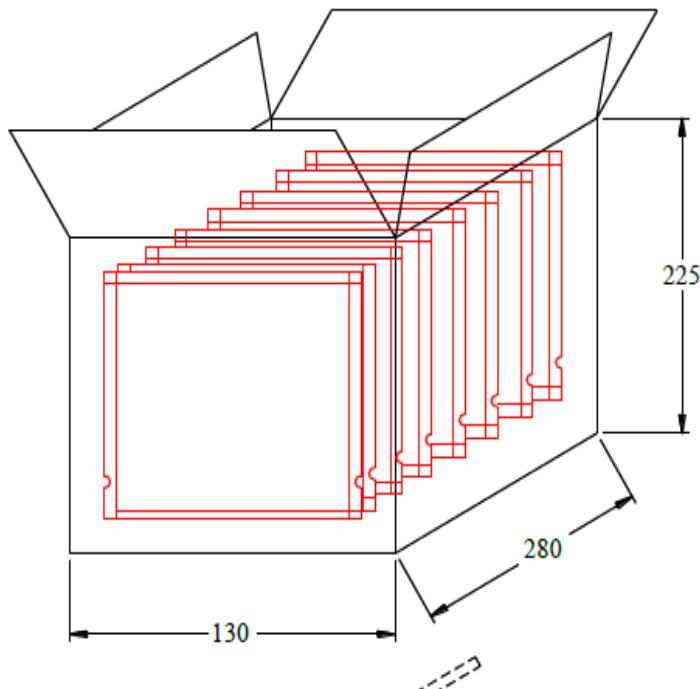
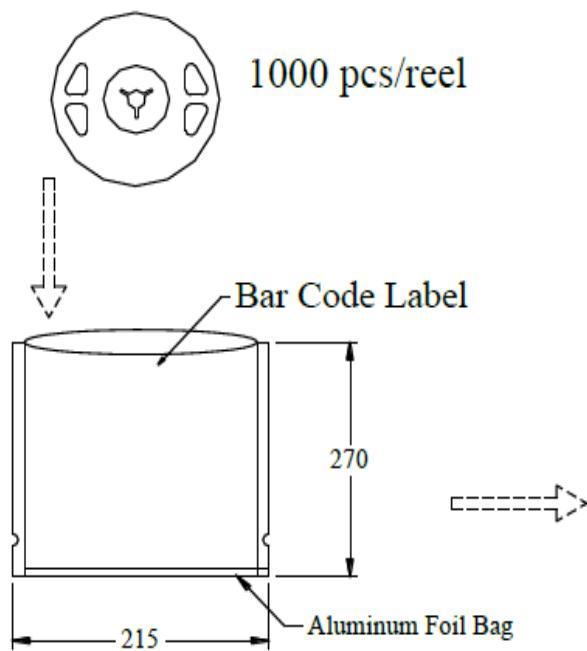
Tape and Reel:



END

User Feed Direction →
START

10 bag/box



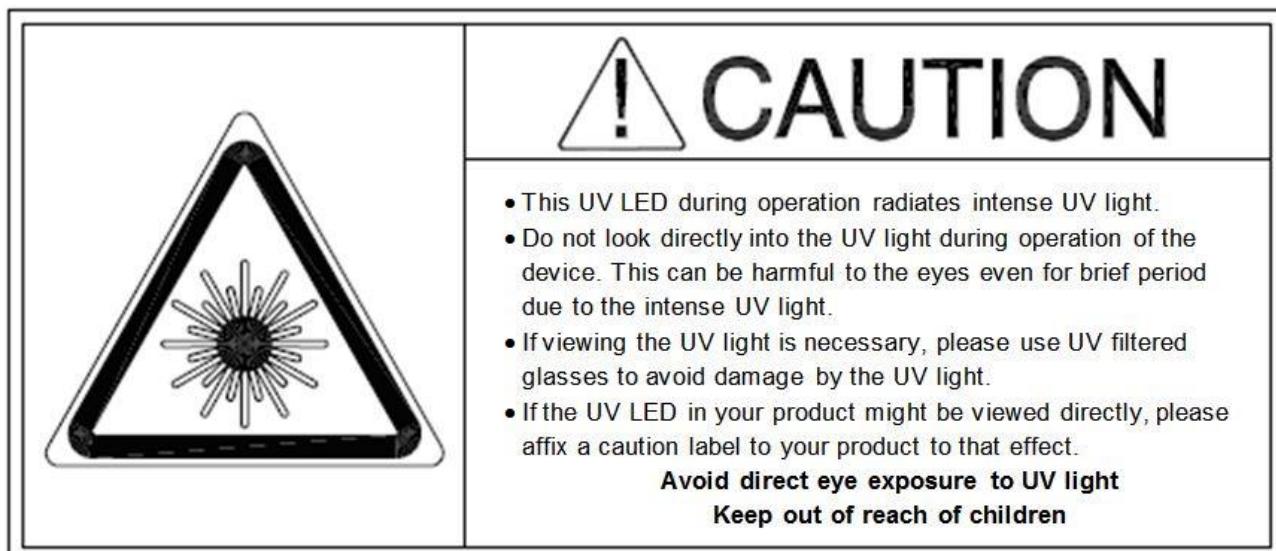
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Labeling

	QT-Brightek	
		
Part No: _____		
Customer P/N: _____		
Item: _____		
Q'ty: _____		
Vf: _____		
lv: _____		
WI: _____		
Date: _____		

Made in China

Caution



Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBHP684E-UV265	QBHP684E-UV265	$P_o=2.5\text{mW}$ @ $I_F=20\text{mA}$, $\lambda_p=265\text{nm}$ typ.	1000 units
QBHP684E-UV265N	QBHP684E-UV265N	$P_o=10\text{mW}$ @ $I_F=100\text{mA}$, $\lambda_p=265\text{nm}$ typ.	1000 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBHP684E-UV265 Series	V1.0	08/12/2020

Disclaimer

QT-BRIGHTEK reserves the right to make changes without further notice to any products herein to improve reliability, function or design. QT-BRIGHTEK does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights, nor the rights of others.

Life Support Policy

QT-BRIGHTEK's products are not authorized for use as critical components in life support devices or systems without the express written approval of QT-BRIGHTEK. As used herein:

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.

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