

QT-Brightek UV LED Series UVC LED

Part No.: QBHP684E-UV265X

UV265 : Wavelength X: 20mA or 100mA

Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 1 of 10
	Version# 1.1	

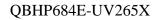




Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	4
Absolute Maximum Rating	
Characteristic Curves	
IR Reflow Soldering Profile	7
Packing	8
Labeling	9
Caution	9
Ordering Information	9
Revision History	10
Disclaimer	10

Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 2 of 10
	Version# 1.1	



Introduction

Feature:

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

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

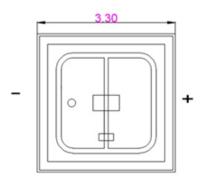
Certification & Compliance:

- ISO9001
- RoHS Compliant

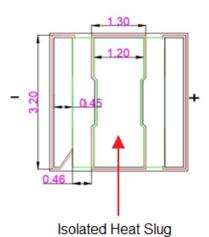


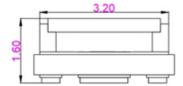
Outline Dimensions:

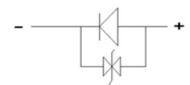
Top View



Bottom View







Units: mm / tolerance = +/-0.2mm

Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 3 of 10
	Version# 1.1	



Electrical / Optical Characteristic (Ta=25 °C)

Part Number	Color	I (m A)	V _F (V)		ĺ .	λ _p (nm)	F	o (mW	/)	
Part Number	Color	I _F (mA)	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	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	-

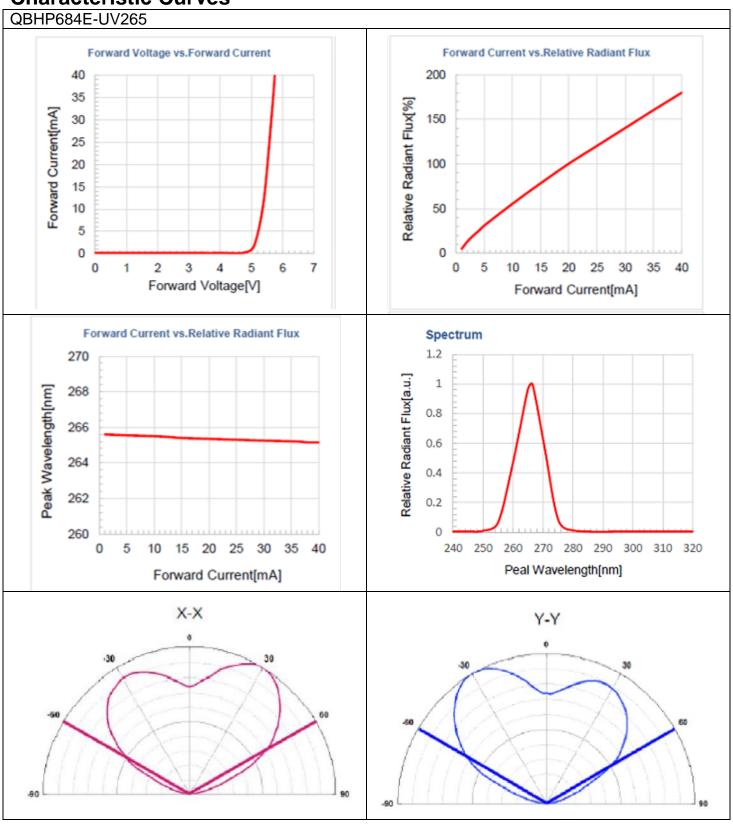
Absolute Maximum Rating

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

Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 4 of 10
	Version# 1.1	

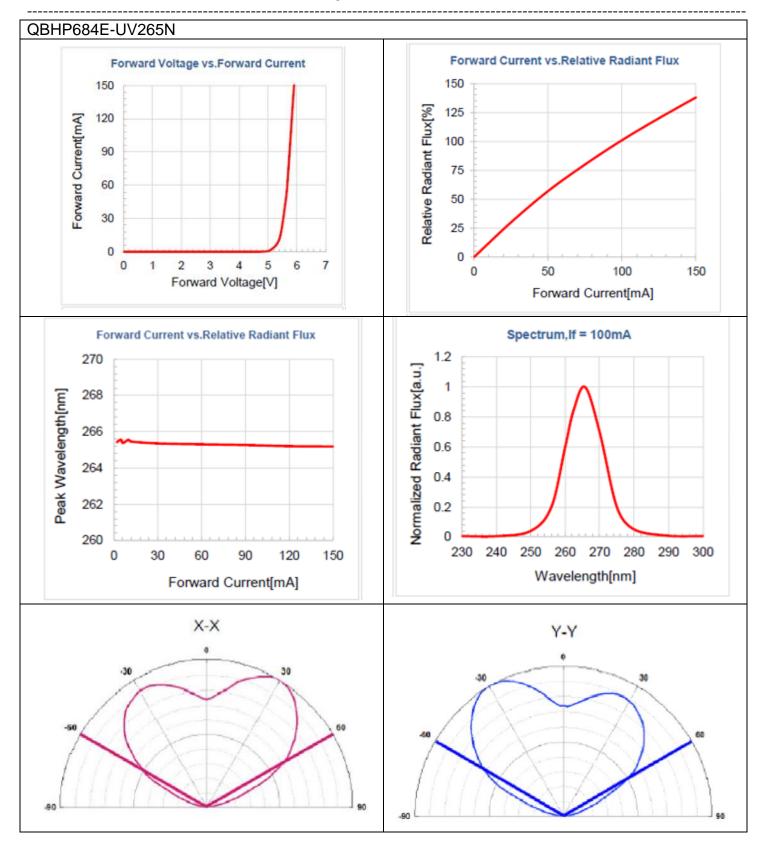


Characteristic Curves



Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 5 of 10
	Version# 1.1	



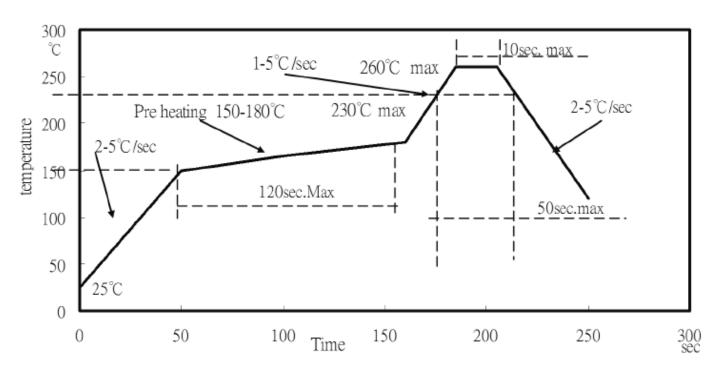


Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 6 of 10
	Version# 1.1	

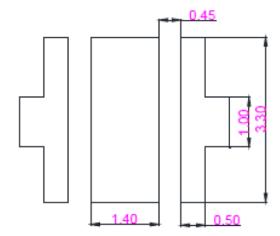


IR Reflow Soldering Profile

Lead Free solder



Recommended Soldering Pad:



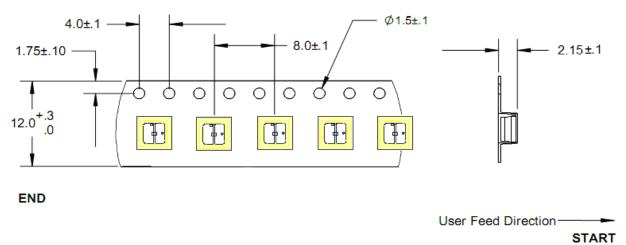
Unit: mm

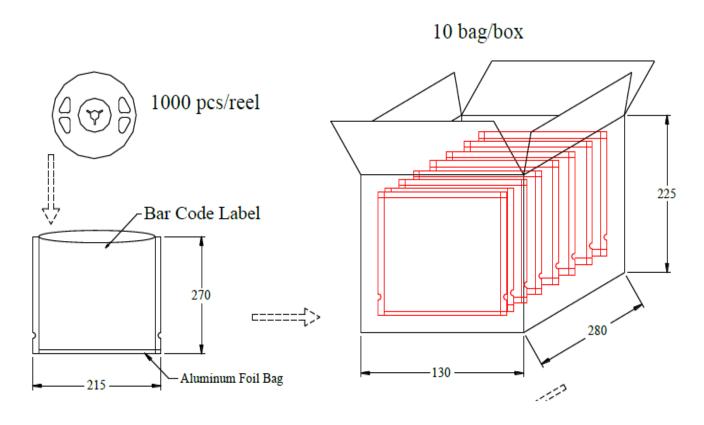
Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 7 of 10
	Version# 1.1	



Packing

Tape and Reel:





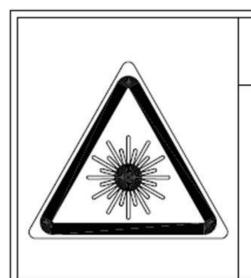
Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 8 of 10
	Version# 1.1	



Labeling

😥 QT-Brightek 🙆
Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
lv:
WI:
Date:

Caution





- This UV LED during operation radiates intense UV light.
- Do not look directly into the UV light during operation of the device. This can be harmful to the eyes even for brief period due to the intense UV light.
- If viewing the UV light is necessary, please use UV filtered glasses to avoid damage by the UV light.
- If the UV LED in your product might be viewed directly, please affix a caution label to your product to that effect.

Avoid direct eye exposure to UV light Keep out of reach of children

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBHP684E-UV265	QBHP684E-UV265	Po=2.5mW typ. @ I_F =20mA, λ_p =265nm typ.	1000 units
QBHP684E-UV265N	QBHP684E-UV265N	Po=10mW typ. @ I_F =100mA, λ_p =265nm typ.	1000 units

Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 9 of 10
	Version# 1.1	



Revision History

Description:	Revision #	Revision Date
New Release of QBHP684E-UV265 Series	V1.0	08/12/2020
Update drawing dimension	V1.1	02/07/2022

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.

Product: QBHP684E-UV265 Series	Date: Feburary 07, 2022	Page 10 of 10
	Version# 1.1	