

QT-Brightek UV LED Series

UVC LED

Part No.: QBHP4545E-UV265X

UV265 : Wavelength

X: H=150mA

X: U=350mA

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Introduction

Feature:

- UVC LED
- Clear Lens
- Packed in tape and reel
- ESD rating: 8KV (HBM)
- Viewing Angle: 60° typ.

Description:

This UV LED has compact size of 4.5 x 4.5mm. It is ideal for various UV applications.

Application:

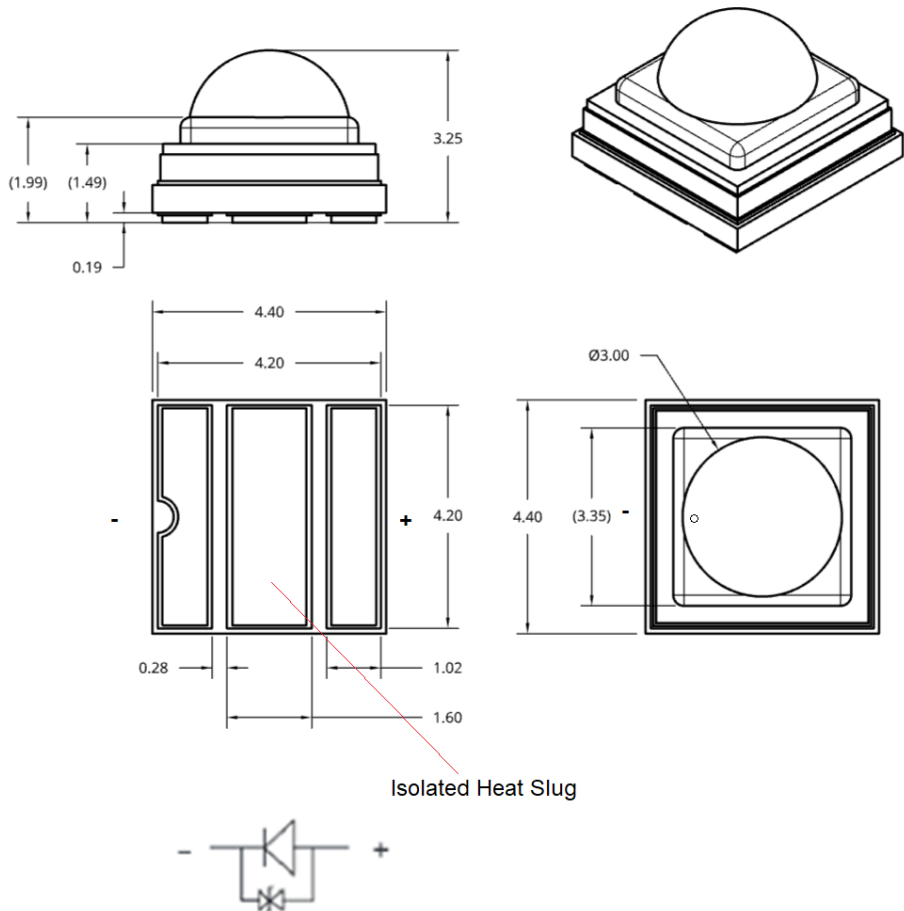
- UV marking
- Purification
- Inspection
- Sterilization and Disinfection

Certification & Compliance:

- ISO9001
- RoHS Compliant



Outline Dimensions:



Units: mm / tolerance = +/-0.2mm

Electrical / Optical Characteristic (Ta=25 °C)

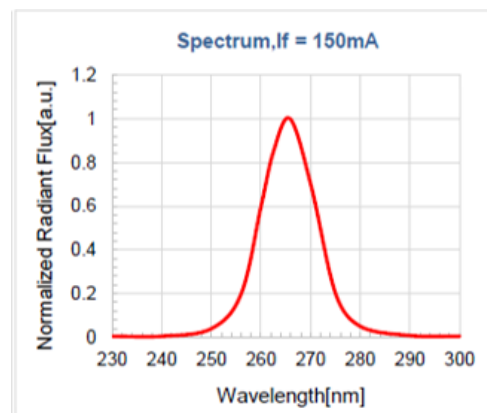
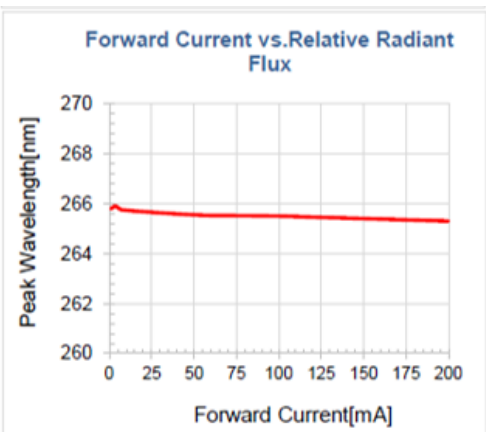
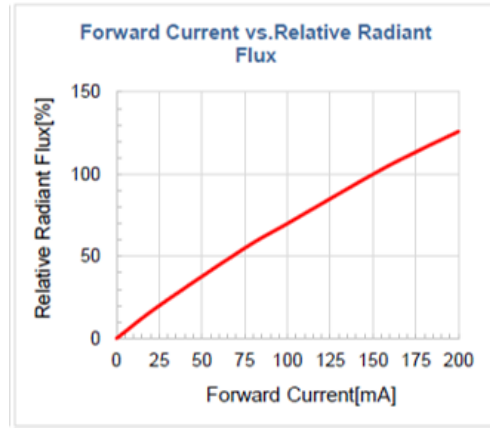
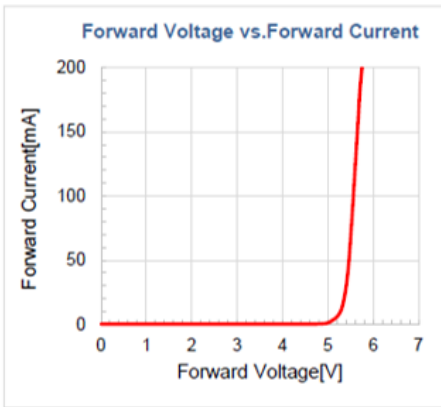
Part Number	Color	I _F (mA)	V _F (V)			λ _p (nm)			P _o (mW)		
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
QBHP4545E-UV265H	UVC	150	5.0	6.0	6.5	260	265	270	13	18	-
QBHP4545E-UV265U	UVC	350	5.0	6.0	6.5	260	265	270	28	40	-

Absolute Maximum Rating

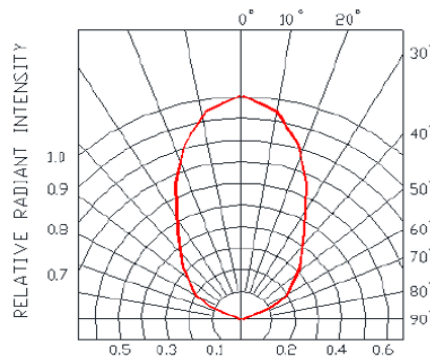
Part Number	P _d (mW)	I _F (mA)	T _{OP} (°C)	T _{ST} (°C)	T _{SO L} (°C)
QBHP4545E-UV265H	1400	200	-10 to +50	-40 to +100	260
QBHP4545E-UV265U	4000	600	-10 to +50	-40 to +100	260

Characteristic Curves

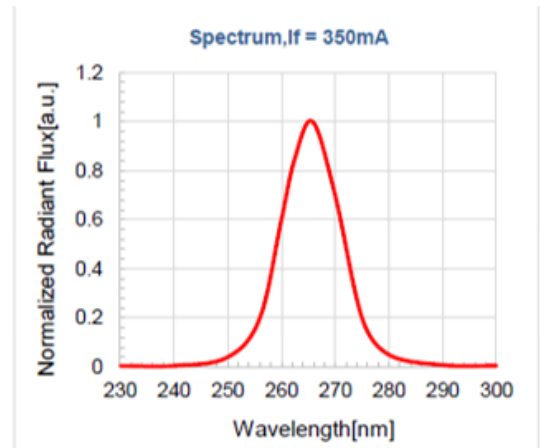
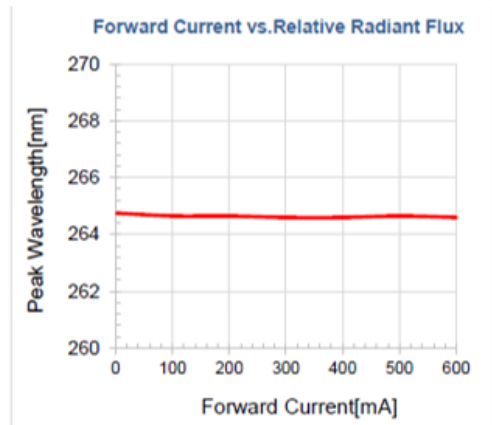
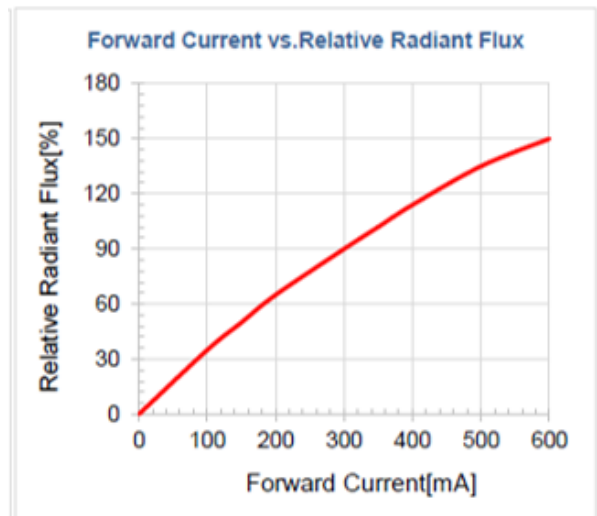
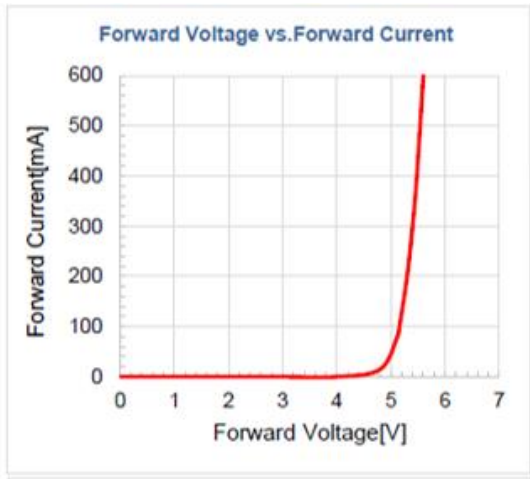
QBHP4545E-UV265H



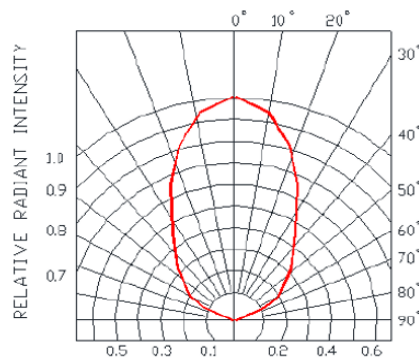
Radiation Pattern



QBHP4545E-UV265U

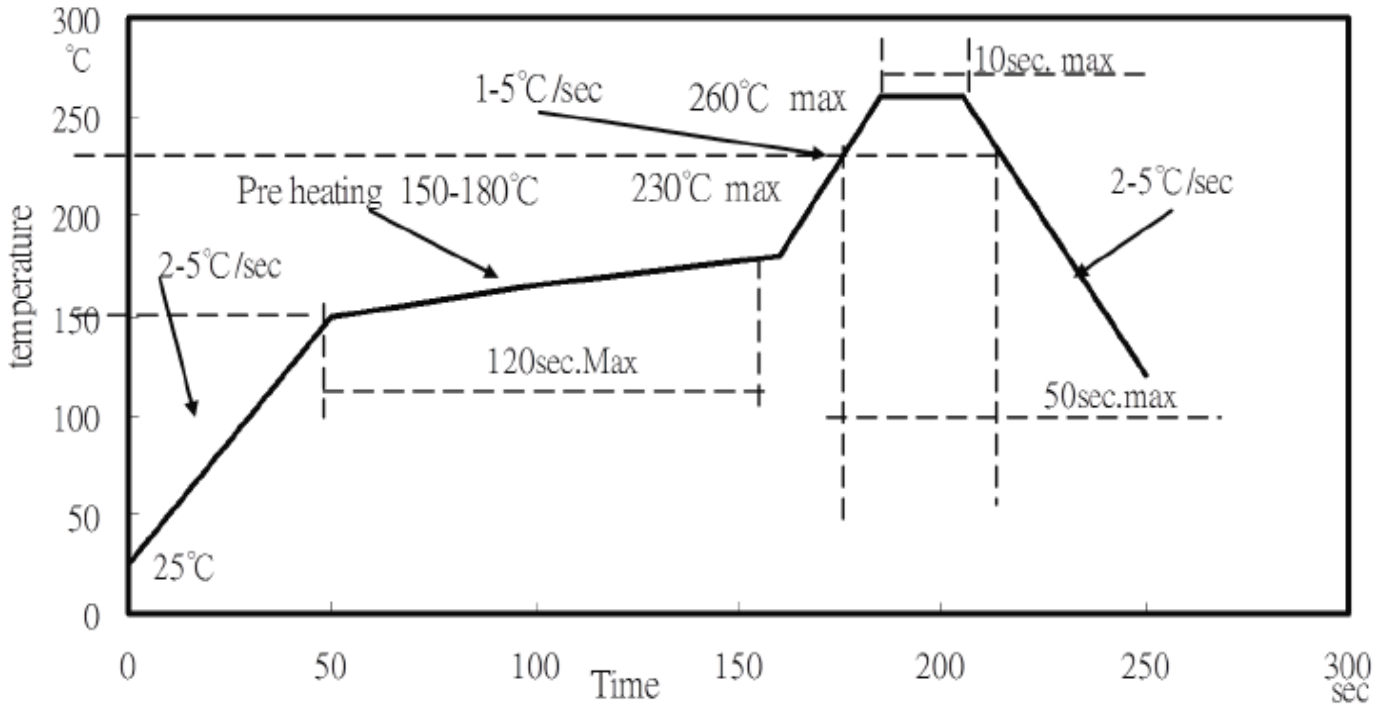


Radiation Pattern

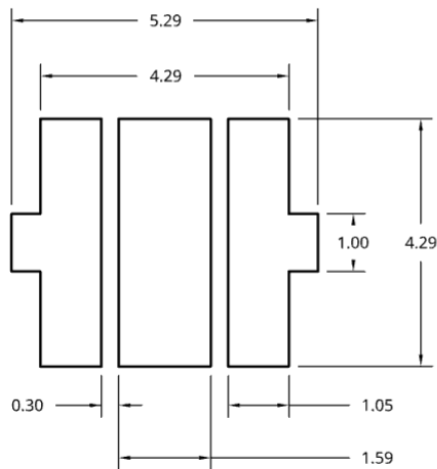


IR Reflow Soldering Profile

Lead Free solder



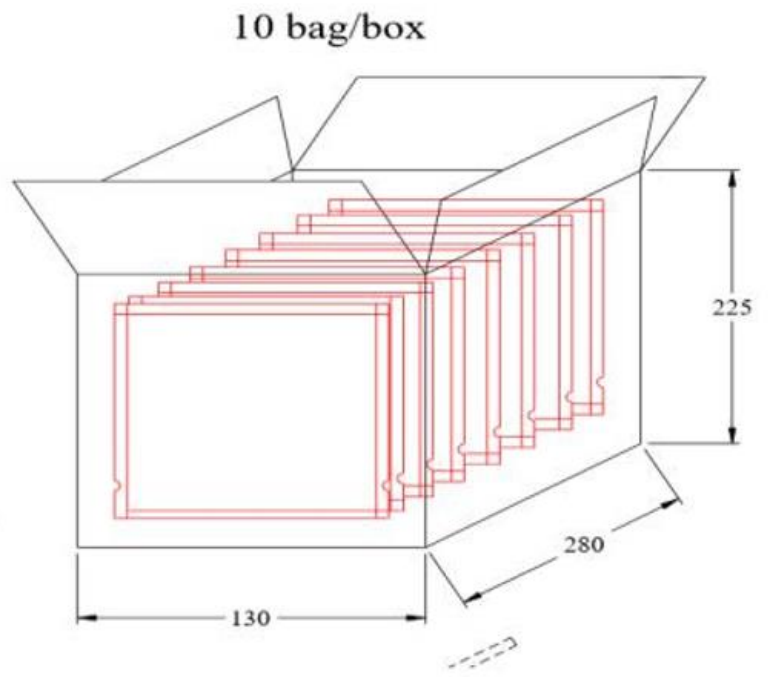
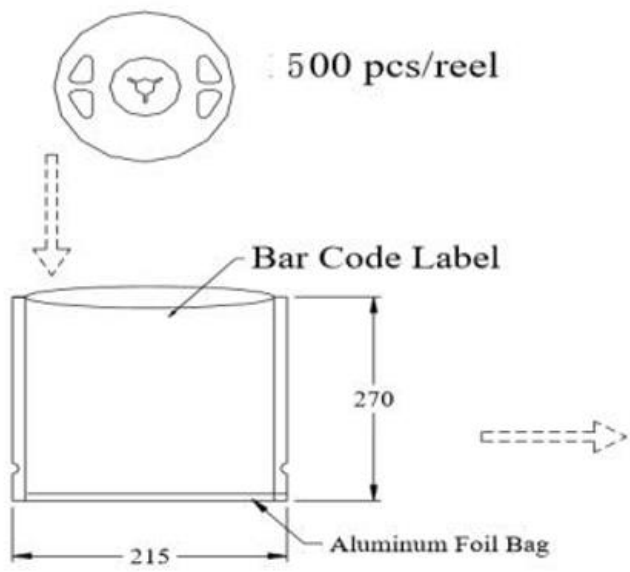
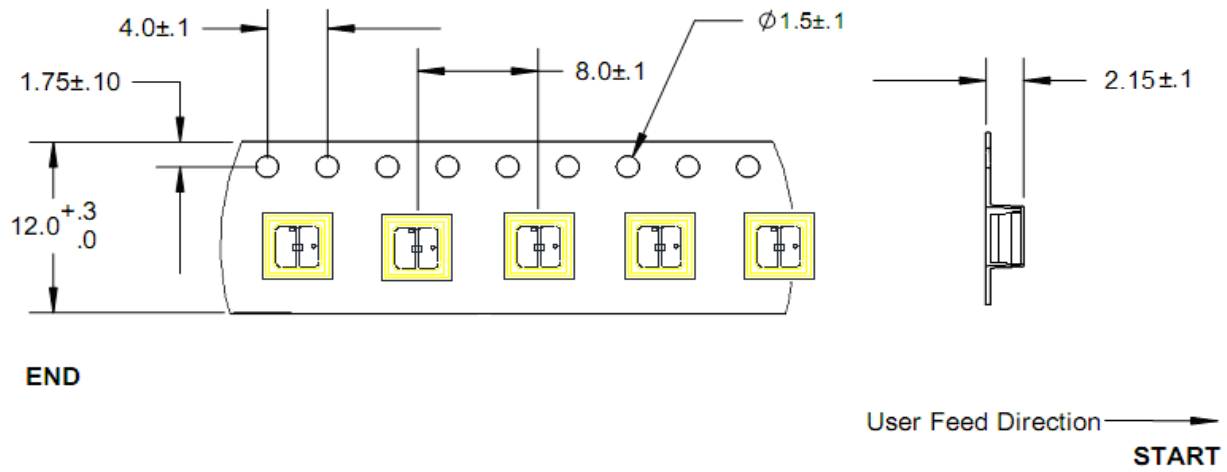
Recommended Soldering Pad:



Unit: mm

Packing

Tape & Reel:



Labeling

Part No: _____

Customer P/N: _____

Item: _____

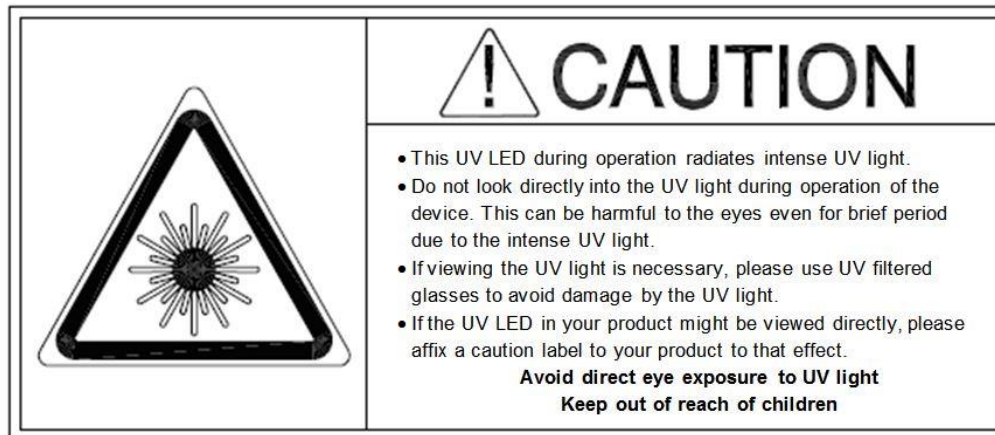
Q'ty: _____

Vf: _____

Iv: _____

WI: _____

Date: _____

Made in China**Caution****Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per reel
QBHP4545E-UV265H	QBHP4545E-UV265H	Po=18mW @ I _F =150mA, λ _p =265nm typ.	500 units
QBHP4545E-UV265U	QBHP4545E-UV265U	Po=40mW @ I _F =350mA, λ _p =265nm typ.	500 units

Revision History

Description:	Revision #	Revision Date
New Release of QBHP4545E-UV265 Series	V1.0	08/13/2020
Update qty per reel to 500pcs	V1.1	04/08/2021
Add polarity indication to the dimension drawing	V1.2	03/02/2022
Optimize and refine drawing dimensions	V1.3	04/06/2022

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.