

QT-Brightek UV LED Series

UVC LED

Part No.: QBHP684E-UV280H

**UV280: Wavelength
H:150mA**

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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:

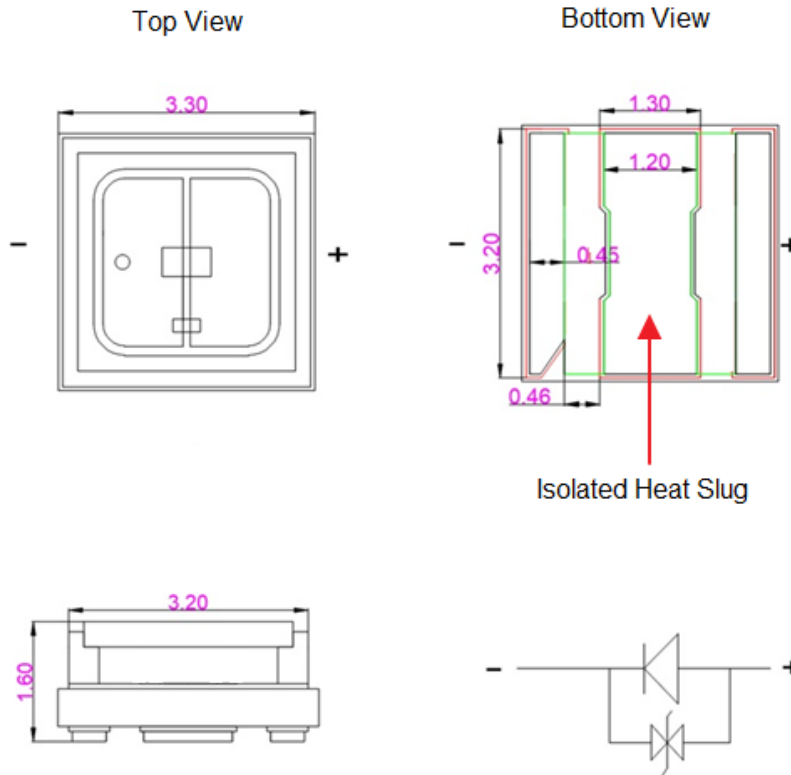
- UV marking
- Purification
- Inspection
- Sterilization and Disinfection

Certification & Compliance:

- ISO9001
- RoHS Compliant



Outline Dimensions:



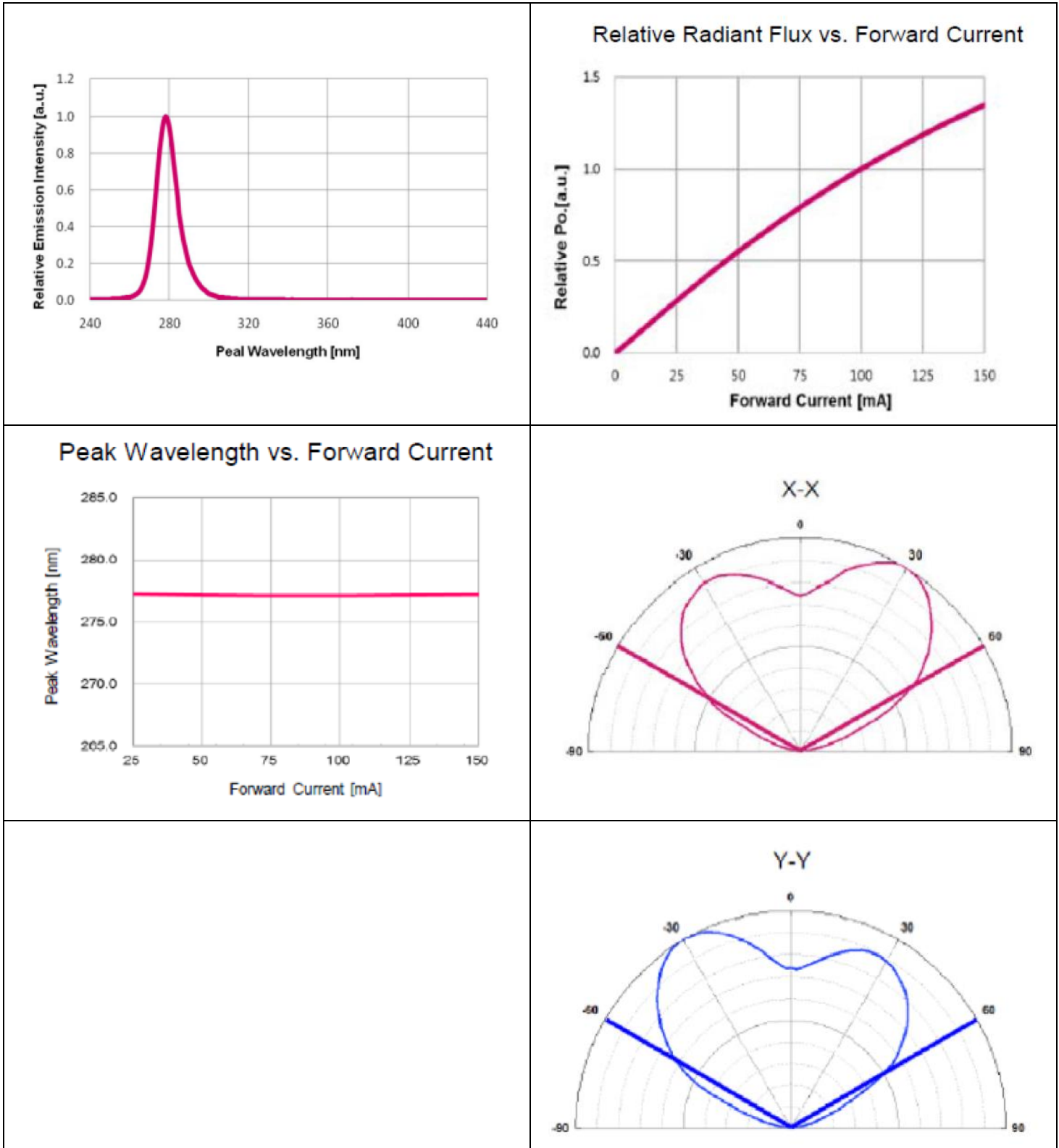
Electrical / Optical Characteristic (Ta=25 °C)

| 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-UV280H | UVC | 150 | 5.0 | 7.0 | 9.0 | 270 | 278 | 285 | 9 | 14 | - |

Absolute Maximum Rating

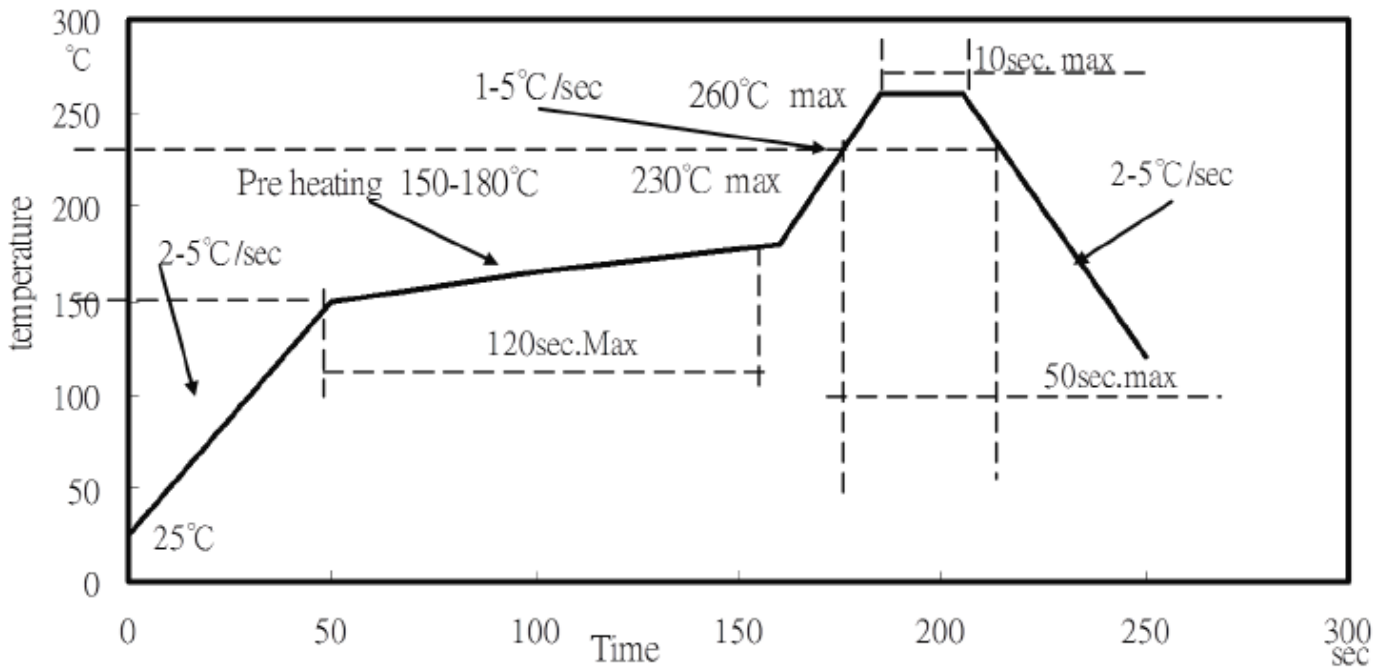
| Material | P _d (mW) | I _F (mA) | T _{OP} (°C) | T _{ST} (°C) | T _{SO L} (°C) |
|----------|---------------------|---------------------|----------------------|----------------------|------------------------|
| InGaN | 1350 | 150 | -10 to +50 | -40 to +100 | 260 |

Characteristic Curves

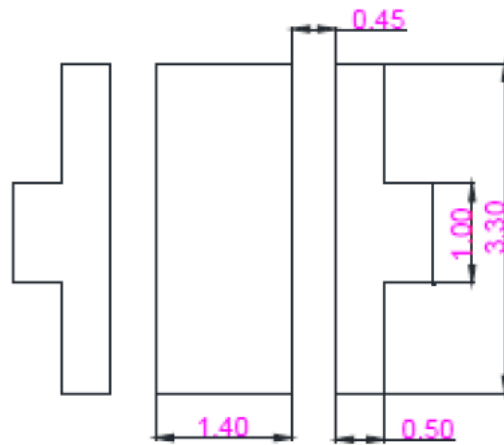


IR Reflow Soldering Profile

Lead Free solder



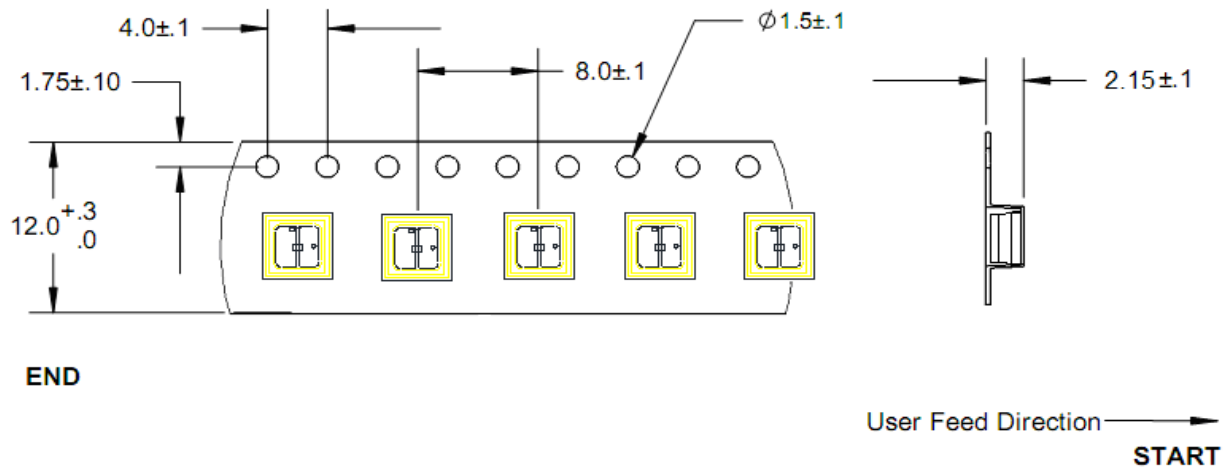
Recommended Soldering Pad:



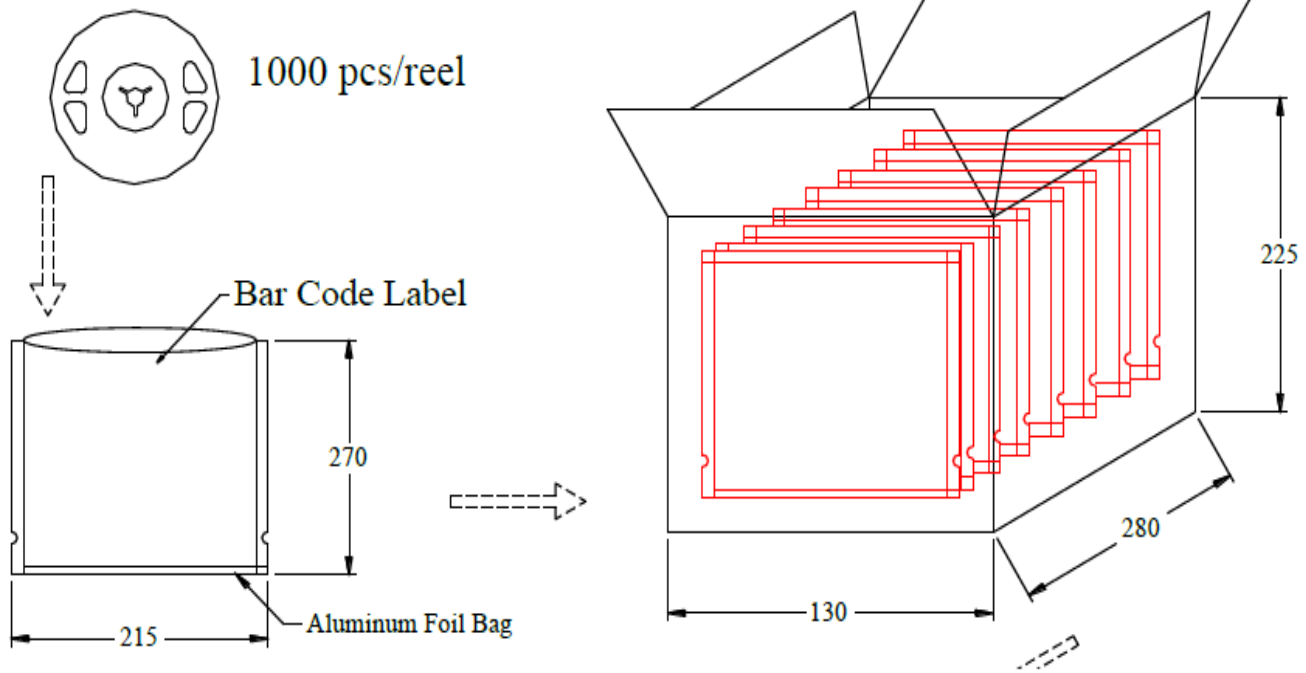
Unit: mm

Packing

Tape and Reel:



10 bag/box



Labeling

Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

Vf: _____

Iv: _____

WI: _____

Date: _____

Made in China**Caution**

| | |
|--|--|
| | CAUTION |
| | <ul style="list-style-type: none"> • 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. <p style="text-align: center;">Avoid direct eye exposure to UV light Keep out of reach of children</p> |

Ordering Information

| Part # | Orderable Part # | Spec Range | Quantity per reel |
|-----------------|------------------|--|-------------------|
| QBHP684E-UV280H | QBHP684E-UV280H | Po=14mW @ I _F =150mA, λ _p =278nm typ. | 1000 units |

| | | |
|--------------------------|-------------------------|-------------|
| Product: QBHP684E-UV280H | Date: February 07, 2022 | Page 8 of 9 |
| | Version# 1.1 | |

Revision History

| Description: | Revision # | Revision Date |
|--------------------------------|------------|---------------|
| New Release of QBHP684E-UV280H | V1.0 | 07/02/2020 |
| Update drawing dimension | V1.1 | 02/07/2022 |
| | | |
| | | |
| | | |

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.