QT-Brightek UV LED Series

UVC LED

Part No.: QBHP684E-UV280H

UV280: Wavelength
H:150mA

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Introduction

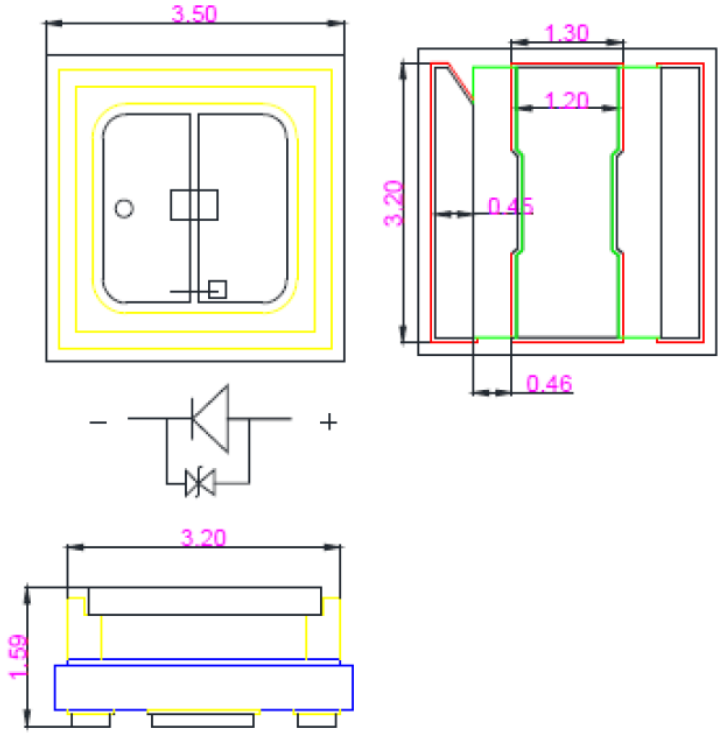
Feature:
- UVC LED
- Clear Lens
- Packed in tape and reel
- ESD rating: 8KV (HBM)
- Viewing Angle: 120°

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

Electrical / Optical Characteristic (Ta=25 °C)

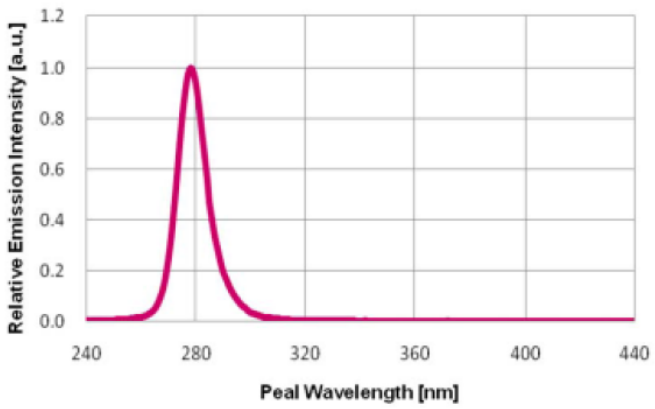
Part Number	Color	I_F (mA)	V_F (V)			λ_p (nm)			Po (mW)		
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
QBHP684E-UV280H	UVC	150	5.0	7.0	9.0	270	278	285	9	14	-

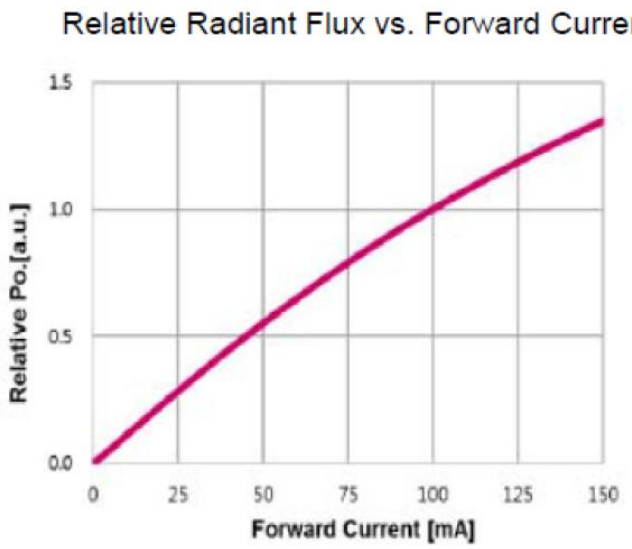
Absolute Maximum Rating

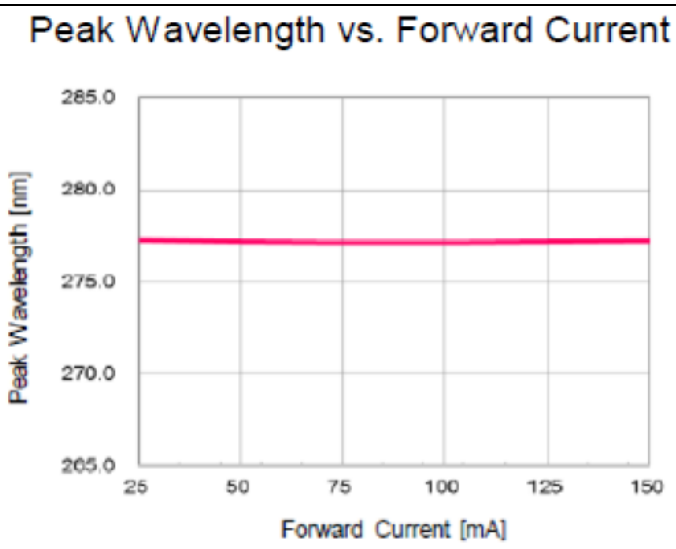
Material	P_d (mW)	I_F (mA)	T_{OP} (°C)	T_{ST} (°C)	T_{SOL} (°C)
InGaN	1350	150	-10 to +50	-40 to +100	260

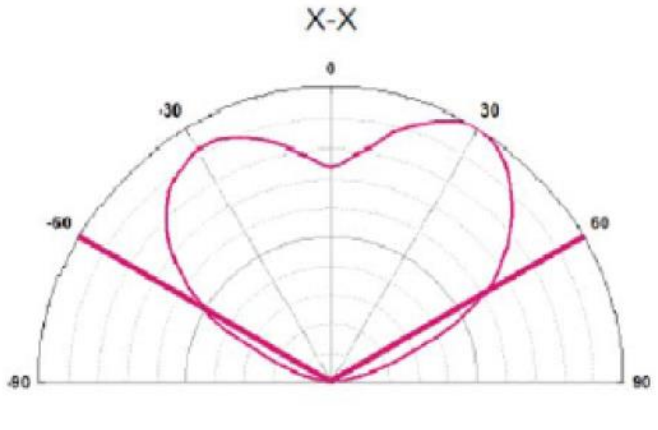
Tolerance of measurement of forward voltage: ±0.1V
Tolerance of measurement of Radiometric Power: ±10%
Tolerance of measurement of dominant wavelength: ±5nm

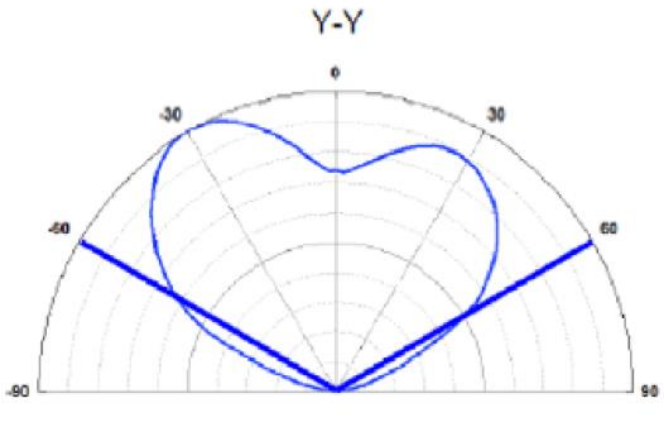
Characteristic Curves



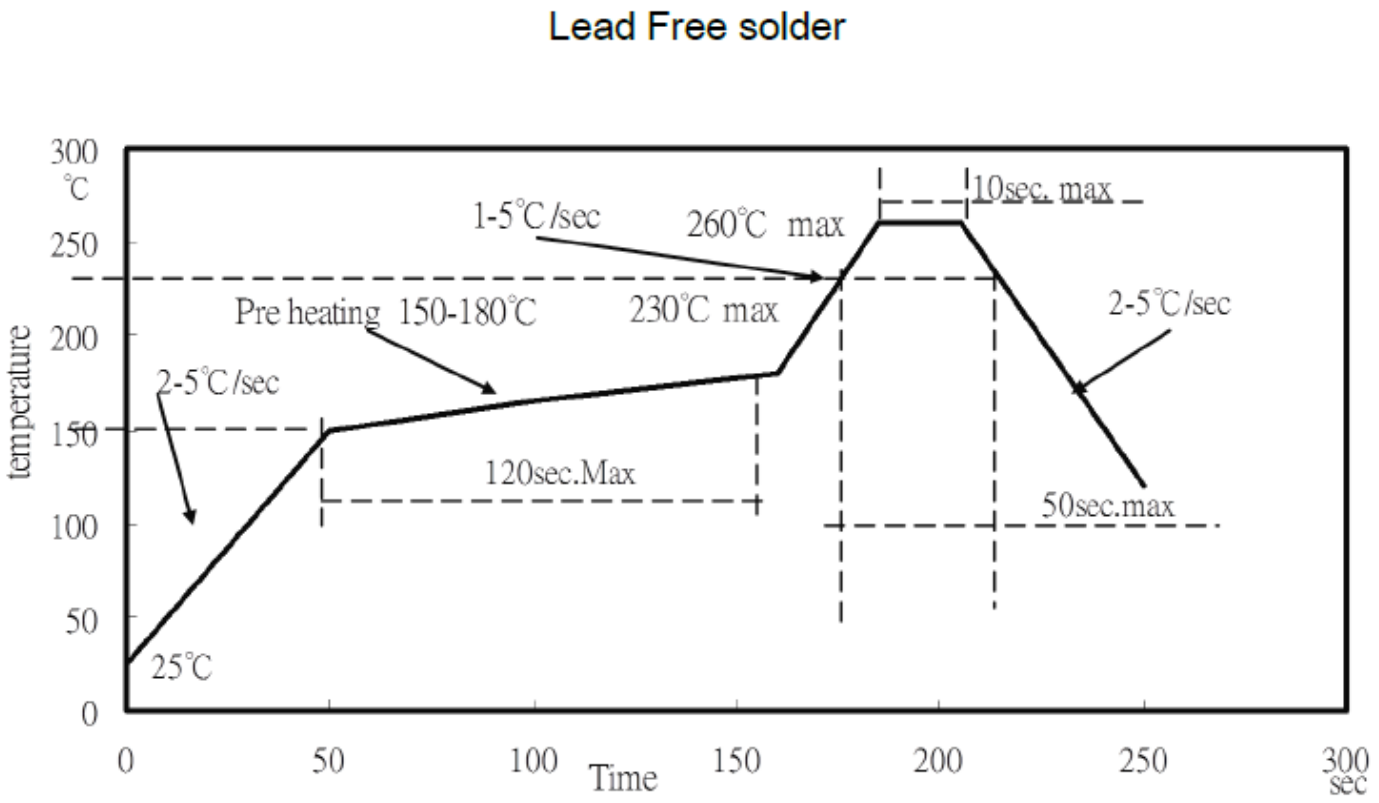




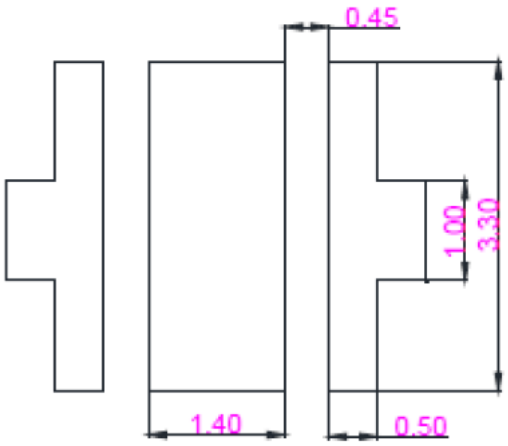




IR Reflow Soldering Profile



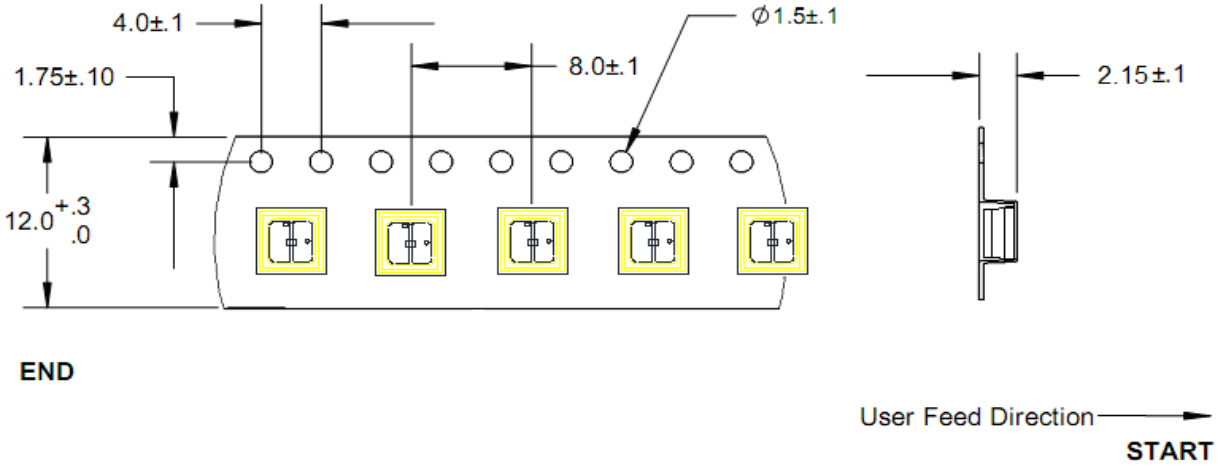
Recommended Soldering Pad:

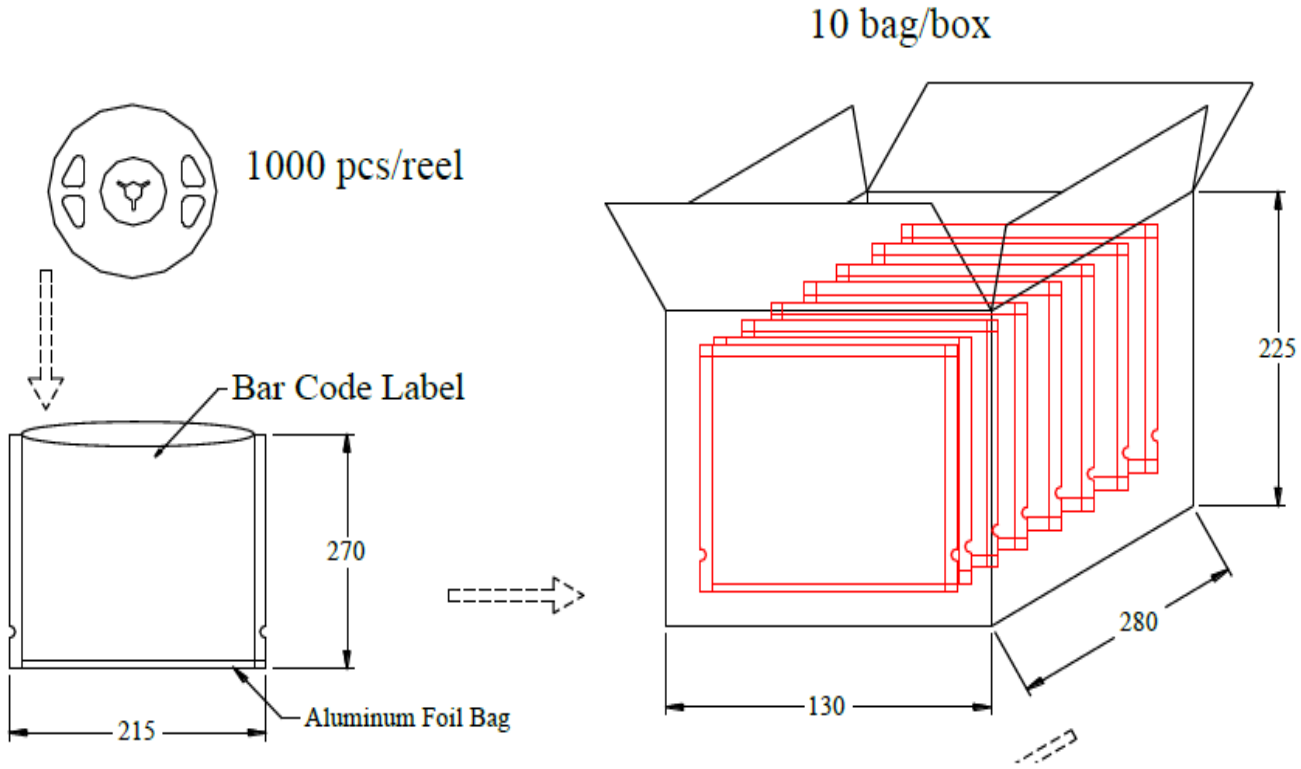


Unit: mm

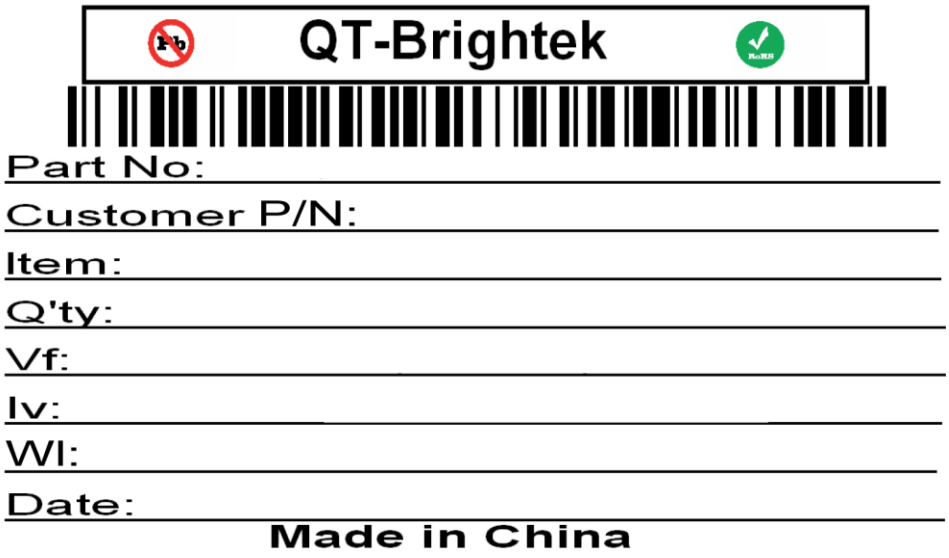
Packing

Tape and Reel:

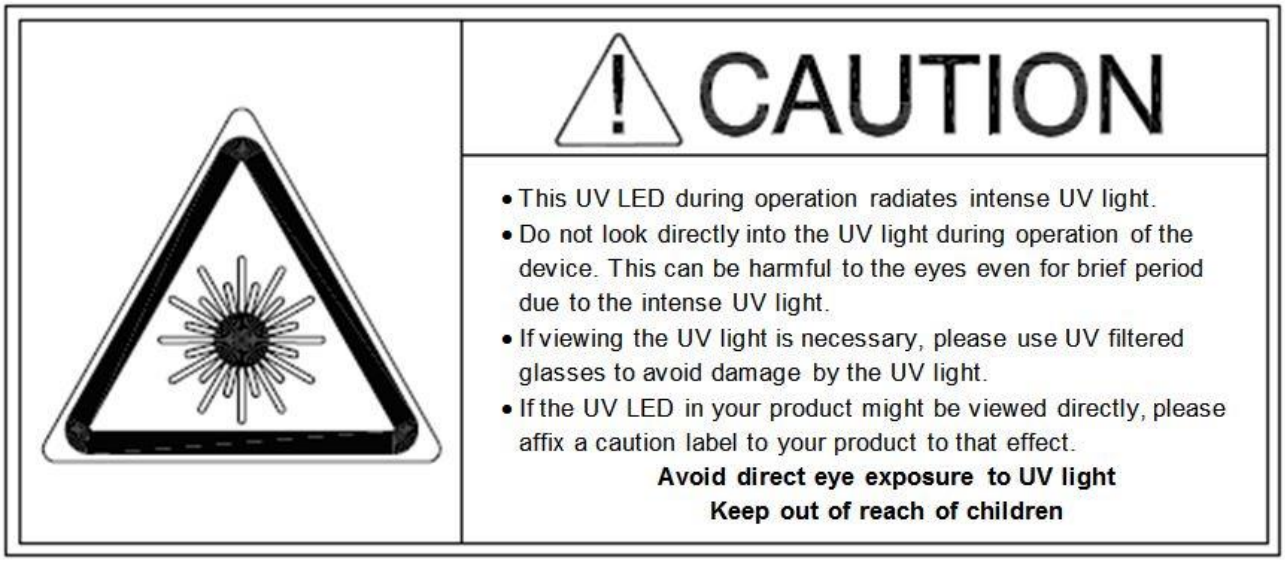




Labeling



Caution



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

Revision History

Description:	Revision #	Revision Date
New Release of QBHP684E-UV280H	V1.0	07/02/2020

Disclaimer

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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.