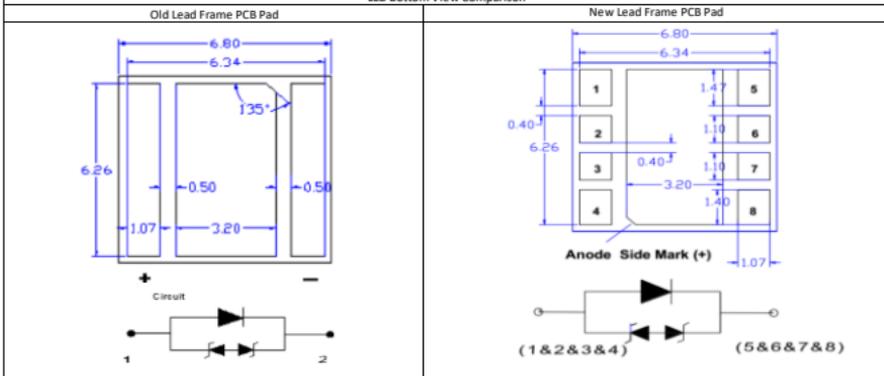


PRODUCT CHANGE NOTIFICATION

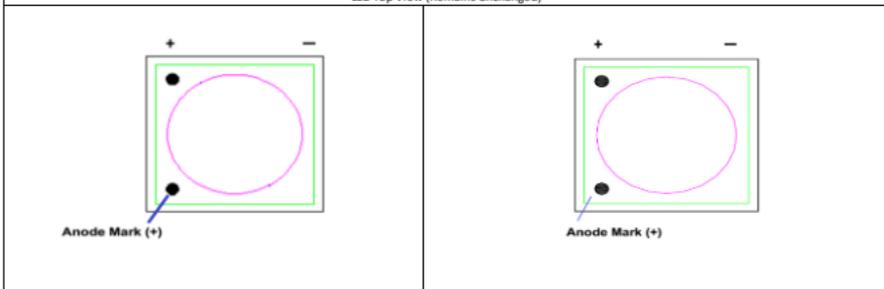
PCN No.:	10057	Date of Issue:	2017/08/25																				
Title of Change:	1. Lead Frame Pad Appearance Change 2. Brightness (mW) Improvement	PCN Effective Date:	2017/08/25																				
Type of Change:	1. Minor Cosmetic Change (Lead Frame PCB Pad Appearance Change) 2. Increased Radiometric Power / brightness (mW)	Last Time Buy Date:	NA																				
Change Description:	1. Beginning immediately on and after August 25th, 2017, QT-Brighttek will begin shipment of QBH-F6868E-LVXXXX LED series with an updated lead frame pcb pad. This is a drop-in replacement and will not affect any form, fit or function. No re-design for existing applications is required. Customers may receive shipments containing both the current lead frame pad appearances in until Digkey inventory of the current lead frame pad is depleted. 2. Increased Radiometric Power (mW) due to increased chip performance and efficiency. Beginning immediately on and after August 25th, 2017, QT-B will ship the affected parts with the new radiometric power binning structure to reflect the increased brightness. Customers may receive shipments containing both the old and new radiometric binning (mW) structure from Digkey until Digkey inventory of the current binning structure is depleted.	Last Time Ship Date:	NA																				
Disposition of Old Product	Remaining inventory stock from Digkey can still be ordered until depleted.																						
Reason for Change:	1. The lead frame pcb supplier stopped producing original lead frame pad (old). A new lead frame pcb pad (drop-in replacement) will be used. New lead frame pad has a better design flexibility for manufacturer 2. Optical power brightness (mW) increased due to improved chip efficiency and performance																						
Lot Number / Date Code Identification	QBH-F6868E-LVXXXX series ships after August 25th, 2017 (date code: 170825) onwards will have the new lead frame pad appearance and updated radiometric power / brightness (mW) binning structures. Customers will be able to identify the new binning structure via the date code (from 170825 onwards) and the bin code labels that are placed on the reel and packaging materials.																						
Effect of Change on Product Fit, Form, or Function	Fit: Remains Unchanged, Form: Remains Unchanged, Function: Unchanged. New lead frame pad is 100% compatible with the solder pad of the old lead frame pad. All other mechanical and electrical parameters remain unchanged. No re-design for existing applications is required.																						
	<table border="1"> <tr> <td>Reference To Character Types</td> </tr> <tr> <td>■ Acquisition (Complete)</td> </tr> <tr> <td>■ Acquisition (Partial)</td> </tr> <tr> <td>■ Fabrication Site Change / Qualification / Country of Origin / New Subcontractor</td> </tr> <tr> <td>■ Obsolescence</td> </tr> <tr> <td>■ Cosmetic Change</td> </tr> <tr> <td>■ Name Change</td> </tr> <tr> <td>■ Nomenclature Change</td> </tr> <tr> <td>■ Reversal</td> </tr> <tr> <td>■ Process Change</td> </tr> <tr> <td>■ Design Change / Data Sheet Spec Change</td> </tr> <tr> <td>■ Packaging and Media</td> </tr> <tr> <td>■ Storage and Handling</td> </tr> <tr> <td>■ Logistics</td> </tr> <tr> <td>■ Roadmap</td> </tr> <tr> <td>■ Quality Alert Notifications</td> </tr> <tr> <td>■ Multiple Types</td> </tr> <tr> <td>■ Environmental Announcement</td> </tr> <tr> <td>■ New Component or Raw Material Added</td> </tr> <tr> <td>■ Other</td> </tr> </table>	Reference To Character Types	■ Acquisition (Complete)	■ Acquisition (Partial)	■ Fabrication Site Change / Qualification / Country of Origin / New Subcontractor	■ Obsolescence	■ Cosmetic Change	■ Name Change	■ Nomenclature Change	■ Reversal	■ Process Change	■ Design Change / Data Sheet Spec Change	■ Packaging and Media	■ Storage and Handling	■ Logistics	■ Roadmap	■ Quality Alert Notifications	■ Multiple Types	■ Environmental Announcement	■ New Component or Raw Material Added	■ Other		
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		10/10/2010	Revision A																				

Datasheet Version	
QBHP6868E-UVXXXX	
Old	New
V1.1	V2.0

LED Bottom View Comparison

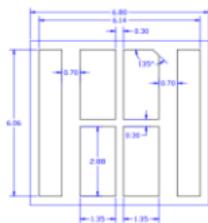


LED Top View (Remains Unchanged)

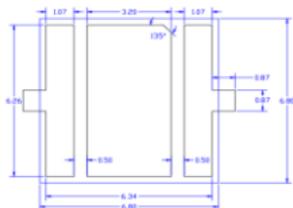


Recommended Soldering Pad (Remain Unchanged) / New Lead Frame PCB Pad is 100% Compatible with the Old Lead Frame PCB Pad
It is a drop-in Replacement

RECOMMENDED STENCIL PATTERN
(HATCHED AREA IS OPENING)



RECOMMENDED PCB SOLDER PAD



Old (V1.1)

Forward Voltage V_F @ $I_F=2000\text{mA}$

Bin	Min.	Max.	Unit
A1	3.4	3.8	V
A2	3.8	4.2	

Radiometric Power P_O for UV365K @ $I_F=2000\text{mA}$

Bin	Min.	Max.	Unit
P10	1000	1100	mW
P11	1100	1200	
P12	1200	1300	
P13	1300	1400	

Radiometric Power P_O for UV385K & UV395K @ $I_F=2000\text{mA}$

Bin	Min.	Max.	Unit
P15	1400	1500	mW
P16	1500	1600	
P17	1600	1700	
P18	1700	1800	

New (V2.0)

Forward Voltage V_F @ $I_F=2000\text{mA}$

Bin	Min.	Max.	Unit
A0	3.2	3.6	V
A1	3.6	4.0	
A2	4.0	4.4	

Radiometric Power P_O for UV365K @ $I_F=2000\text{mA}$

Bin	Min.	Max.	Unit
P27	2700	2800	mW
P28	2800	2900	
P29	2900	3000	
P35	3000	3500	

Radiometric Power P_O for UV385K & UV395K @ $I_F=2000\text{mA}$

Bin	Min.	Max.	Unit
P35	3000	3500	mW
P40	3500	4000	
P45	4000	4500	
P50	4500	5000	