

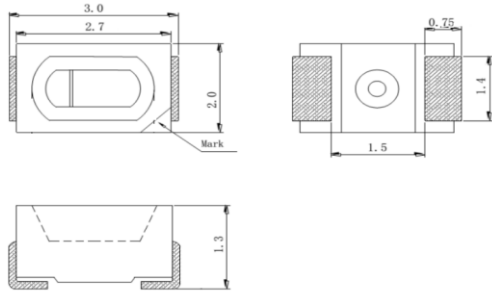
**PRODUCT CHANGE NOTIFICATION**

<b>PCN No.:</b>	10054	<b>Date of Issue:</b>	2017/04/14
<b>Title of Change:</b>	1. Lead Frame Change 2. Update Forward Voltage Bin	<b>PCN Effective Date:</b>	2017/04/14
<b>Type of Change:</b>	1. Minor Cosmetic Change (Lead Frame Change) 2. Data Sheet Spec Change (Updated VF bin)	<b>Last Time Buy Date:</b>	N/A
<b>Change Description:</b>	1. Beginning immediately, QT-Brighttek will begin shipment of 3020 (QBLP676-XX) LED series with a new lead frame. 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 and new lead frame appearances in the same shipment until QT-Brighttek's inventory of the current lead frame LEDs appearance is depleted.  2. Updated VF bin due to lower forward voltage due to chip technology improvement and increased chip efficiency	<b>Last Time Ship Date:</b>	N/A
<b>Reason for Change:</b>	1. The lead frame supplier stopped producing original lead frame (old). A new lead frame (drop-in replacement) will be used 2. Updated VF bin due to lower forward voltage due to chip technology improvement and increased chip efficiency		
<b>Lot Number Identification</b>	There will be a new lot number style on the QT-Brighttek label in this format: XXXXXX-ZZ-YYYYMMDD to reflect the new lead frame and new spec.		
<b>Effect of Change on Product Fit, Form, or Function</b>	Fit: Remains Unchanged, Form: Remains Unchanged, Function: Unchanged. New lead frame is compatible with the solder pad of the old lead frame. All other mechanical, electrical and optical parameters remain unchanged. No re-design for existing applications is required.		
	<p><b>Reference To Change Types:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Acquisition (Complete)</li> <li><input type="checkbox"/> Acquisition (Partial)</li> <li><input type="checkbox"/> Fabrication Site Change / Qualification / Country of Origin / New Subcontractor</li> <li><input type="checkbox"/> Obsolescence</li> <li><input type="checkbox"/> Cosmetic Change</li> <li><input type="checkbox"/> Name Change</li> <li><input type="checkbox"/> Nomenclature Change</li> <li><input type="checkbox"/> Reversal</li> <li><input type="checkbox"/> Process Change</li> <li><input type="checkbox"/> Design Change / Data Sheet Spec Change</li> <li><input type="checkbox"/> Packaging and Media</li> <li><input type="checkbox"/> Storage and Handling</li> <li><input type="checkbox"/> Logistics</li> <li><input type="checkbox"/> Roadmap</li> <li><input type="checkbox"/> Quality Alert Notifications</li> <li><input type="checkbox"/> Multiple Types</li> <li><input type="checkbox"/> Environmental Announcement</li> <li><input type="checkbox"/> New Component or Raw Material Added</li> <li><input type="checkbox"/> Other</li> </ul>		
		<b>10/10/2010</b>	<b>Revision A</b>

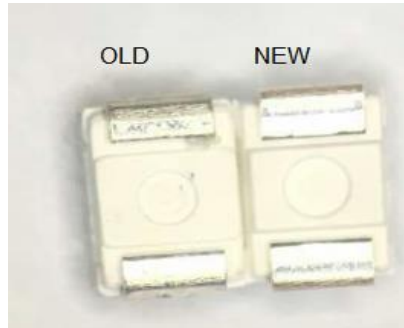
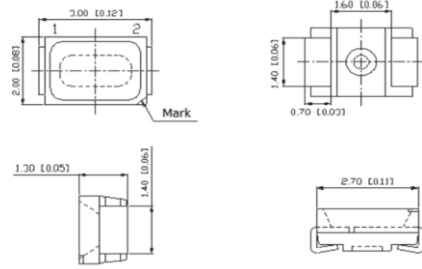


Datasheet Version	
Old	New
V2.2	V3.0

Old Lead Frame



New Leadframe



Old (V2.2)

**Forward Voltage  $V_F$  @  $I_F=20mA$**

Bin	Min.	Max.	Unit
H	2.8	3.0	V
J	3.0	3.2	
K	3.2	3.4	

New (V3.0)

**Forward Voltage  $V_F$  @  $I_F=20mA$**

Bin	Min.	Max.	Unit
G	2.6	2.8	V
H	2.8	3.0	
J	3.0	3.2	
K	3.2	3.4	