

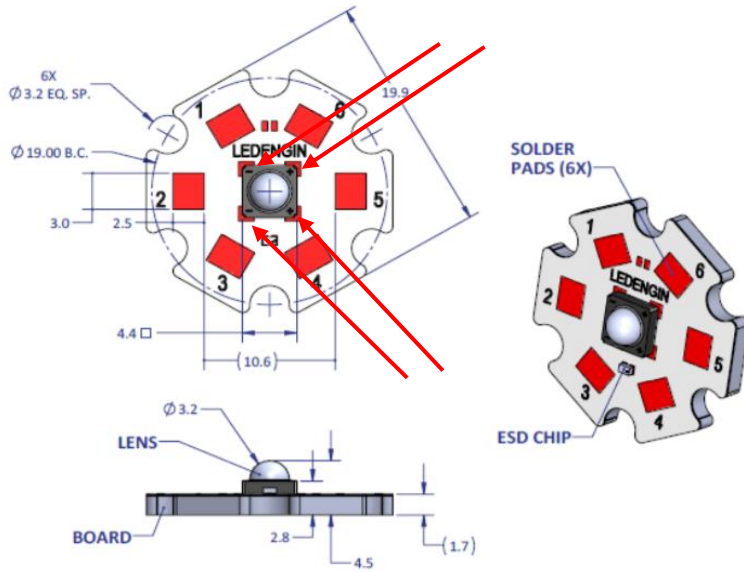
## CCN- Customer Change Notification

<b>PRODUCT CHANGE NOTICE</b>	
<b>AFFECTED PART NUMBER(S):</b> LZ1-10UV00 and LZ1-30UV00 LZ1-10UB00 LZ1-10DB00 and LZ1-30DB00 All custom part numbers (LQ) based on the above products	<b>CCN No.</b>  <div style="text-align: center;">55</div>
<b>PART DESCRIPTION:</b> LZ1 UV 365nm LED Emitter on Star and Mini MCPCB LZ1 Violet LED Emitter on Star MCPCB LZ1 Dental Blue LED Emitter on Star and Mini MCPCB All custom part numbers based on the above products	<b>DATE:</b>  <div style="text-align: center;">April 25, 2018</div>
<b>LEVEL OF CHANGE:</b>  <div style="display: flex; justify-content: space-around;"> <span><input type="checkbox"/> Level 1, Customer Approval</span> <span><input checked="" type="checkbox"/> Level II, Customer Information</span> </div>	
<b>PRODUCT ATTRIBUTE AFFECTED:</b>  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> Material Change  <input type="checkbox"/> Design Change  <input type="checkbox"/> Process Change  <input checked="" type="checkbox"/> OTHER; Explain: Product Appearance Change         </div> <div style="width: 45%;"> <input checked="" type="checkbox"/> Data Sheet Change  <input type="checkbox"/> Package Change  <input type="checkbox"/> Packing/Shipping         </div> </div>	
<b>DESCRIPTION OF CHANGE:</b> 1. Substrate marking change from -,+,- for Pin 1, 2, 3, 4 respectively to a single square on Pin 2 only. For the affected part numbers, this will only be a slight change in product appearance. The products are form, fit and function compatible with previous version. Refer to PRODUCT MARKING section on page 2 for details. 2. The emitter part numbers' last 4 digits will be changed from -x0xx to -x1xx to differentiate the two versions, and to be consistent with the emitter only products.	
<b>REASON FOR CHANGE:</b> 1. Substrate marking is changed to accommodate future products with new generation dies which have different electrical polarity.	
<b>DATE OF SAMPLES AVAILABLE:</b>  <div style="text-align: center;">N/A</div>	<b>DATE QUALIFICATION COMPLETED:</b>  <div style="text-align: center;">N/A</div>
<b>LAST ORDER DATE FOR OLD PART:</b>  <div style="text-align: center;">N/A</div>	<b>DATE PRODUCTION SHIPMENT COMMENCES:</b> LED Engin will continue to ship affected part numbers until inventory is depleted. Once it is, we will ship parts with new substrate marking, labeled with the new part number.
<b>LAST SHIPMENT DATE OF OLD PART:</b>  <div style="text-align: center;">N/A</div>	
<b>CONTACT PERSON:</b> <b>Erin Tjahjono</b> <i>Product Manager</i> 651 River Oaks Parkway San Jose, CA 95134 <a href="mailto:e.tjahjono@osram.com">e.tjahjono@osram.com</a>	

# PRODUCT MARKING

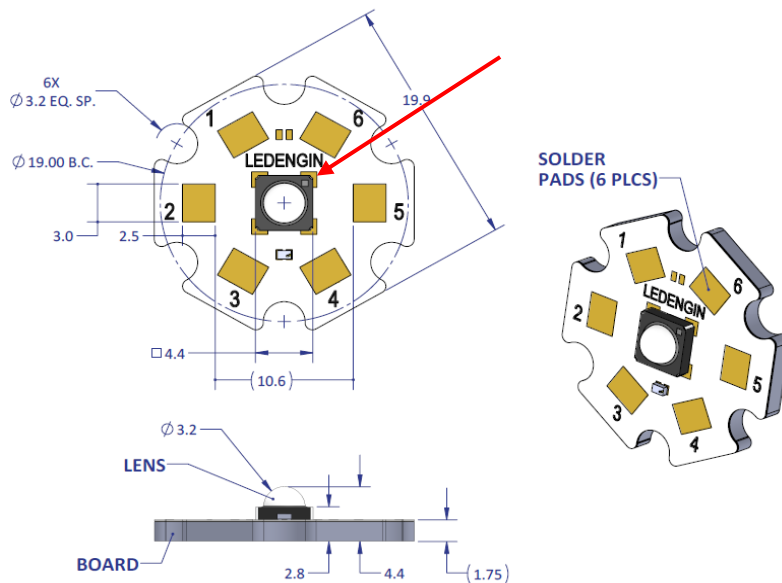
## Mechanical Dimension and Electrical Configuration

### Current product marking



Pad layout			
Ch.	MCPCB Pad	String/die	Function
1	1,2,3	1/A	Cathode -
	4,5,6		Anode +

### New product marking



Pad layout			
Ch.	MCPCB Pad	String/die	Function
1	1,2,3	1/A	Cathode -
	4,5,6		Anode +