**LT189X-82-0125** 5.0MM ROUND PHOTOTRANSISTOR LAMP

**Feature**
- * HIGH ILLUMINATION SENSITIVITY
- * STABLE CHARACTERISTICS
- * SPECTRALLY AND MECHANICALLY MATCHED WITH IR EMITTER
- * NPN SILICON PHOTOTRANSISTOR

**Absolute Maximum Ratings at T<sub>A</sub>=25°C**
- OPERATING TEMPERATURE RANGE………………. -25°C TO + 85°C
- STORAGE TEMPERATURE RANGE………………… -25°C TO +100°C
- LEAD SOLDERING TEMP. (1.6mm FROM BODY)…………………. 260°C FOR 5 SEC.

**Electrical/optical characteristics at T<sub>A</sub>=25°C**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>LENS COLOR</th>
<th>COLLECTOR-EMITTER BREAKDOWN VOLTAGE (V)</th>
<th>EMITTER-COLLECTOR BREAKDOWN VOLTAGE (V)</th>
<th>COLLECTOR-EMITTER SATURATION VOLTAGE (V)</th>
<th>COLLECTOR DARK CURRENT (nA)</th>
<th>PHOTO CURRENT (nA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT1893-82-0125</td>
<td>WATER CLEAR</td>
<td>MIN. 30.0</td>
<td>MIN. 5.0</td>
<td>MAX. 1.3</td>
<td>MAX. 100</td>
<td>TYP. 20.0</td>
</tr>
<tr>
<td>LT1895-82-0125</td>
<td>BLUE CLEAR</td>
<td>MIN. 30.0</td>
<td>MIN. 5.0</td>
<td>MAX. 1.3</td>
<td>MAX. 100</td>
<td>TYP. 20.0</td>
</tr>
</tbody>
</table>

**Package Dimensions**

1. ALL DIMENSIONS ARE IN mm, TOLERANCE IS ±0.25mm UNLESS OTHERWISE NOTED.
2. AN EPOXY MENISCUS MAY EXTEND ABOUT 1.0mm DOWN THE LEADS.
3. BURR AROUND BOTTOM OF EPOXY BODY MAY BE 0.5mm MAX.

**Relative Sensitivity VS. Peak Wavelength**

**Photo Current VS. Radiant Incidence**

**Max. Collector Dark Current VS. Ambient Temperature**

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