

**LIGITEK**

**INFRARED EMITTING DIODES**

**LVIR333X SERIES**

<table>
<thead>
<tr>
<th>Package Dimension</th>
<th>Features</th>
</tr>
</thead>
</table>
| ![Diagram](image) | • High radiant intensity  
• Suitable for pulsed applications  
• Low average degradation |

**Description**
The LVIR333X series are high power solution grown epitaxial Gallium Arsenide infrared emitting diodes encapsulated in blue transparent or water clear plastic T1 3/4 package individually.

**Note:** All dimension are in millimeter tolerance is ±0.25mm unless otherwise noted.

- **Electrical Optical Characteristics (at 25°C)**

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>SYMBOL</th>
<th>PART NO.</th>
<th>MIN</th>
<th>TYP</th>
<th>MAX</th>
<th>UNIT</th>
<th>TEST CONDITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aperture Radiant Incidence</td>
<td>Ea</td>
<td>LVIR333</td>
<td>5.0</td>
<td>8.0</td>
<td>mW/cm²</td>
<td>IF=20mA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LVIR3331</td>
<td>5.0</td>
<td>8.0</td>
<td></td>
<td>IF=20mA</td>
<td></td>
</tr>
<tr>
<td>Peak Emission Wavelength</td>
<td>λpeak</td>
<td></td>
<td>940</td>
<td></td>
<td>nm</td>
<td>IF=20mA</td>
<td></td>
</tr>
<tr>
<td>Spectral Line Half Width</td>
<td>Δλ</td>
<td></td>
<td>50</td>
<td></td>
<td>nm</td>
<td>IF=20mA</td>
<td></td>
</tr>
<tr>
<td>Forward Voltage</td>
<td>VF</td>
<td></td>
<td>1.2</td>
<td>1.6</td>
<td>V</td>
<td>IF=20mA</td>
<td></td>
</tr>
<tr>
<td>Reverse Current</td>
<td>IR</td>
<td></td>
<td>0</td>
<td>100</td>
<td>μA</td>
<td>VR=5V</td>
<td></td>
</tr>
<tr>
<td>Viewing Angle</td>
<td></td>
<td></td>
<td>26 1/2</td>
<td></td>
<td>deg</td>
<td></td>
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</tr>
</tbody>
</table>

- **Absolute Maximum Rating (Ta=25°C)**

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>MAXIMUM</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Dissipation</td>
<td>100</td>
<td>mW</td>
</tr>
<tr>
<td>Peak Forward Current (300PPS,1US Pulse)</td>
<td>3</td>
<td>A</td>
</tr>
<tr>
<td>Continuous Forward Current</td>
<td>50</td>
<td>mA</td>
</tr>
<tr>
<td>Reverse Voltage</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>Operating Temperature RANGE</td>
<td>-55°C TO +100°C</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature RANGE</td>
<td>-55°C TO +100°C</td>
<td></td>
</tr>
<tr>
<td>Lead Soldering Temperature 1.6mm(0.036&quot;) From</td>
<td>260°C For 5 Seconds</td>
<td></td>
</tr>
</tbody>
</table>