suitably heat sunk. Thermal grease with secure clamping is recommended for power dissipation. Temperature levels below -45°C are possible with an optimized mechanical assembly.

### Operating Note
This TE cooled 2-color series detector consists of a high performance photodiode / photoconductor mounted on a thermoelectric cooler, all housed in a TO-8 package. A thermistor is mounted to the TEC’s cold plate to provide a precise, reliable temperature monitor. Before operation VERIFY ELECTRICAL WIRING, else catastrophic damage may be sustained by the unit. Electrical power consumption can exceed 2.5 Watts (2V / 1.25A); therefore, this package must be

### Specifications

<table>
<thead>
<tr>
<th>Detector Type</th>
<th>Top: 2.5 mm dia UV Silicon</th>
<th>Bottom: 2 mm x 2 mm PbS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature - (°C)</td>
<td>22 / -30</td>
<td>22 / -30</td>
</tr>
<tr>
<td>Shunt Resistance - (Ω), min</td>
<td>100M / &gt; 10⁹</td>
<td>1M / 3M typ.</td>
</tr>
<tr>
<td>Shunt Capacitance - (pF), typ</td>
<td>300 / 290</td>
<td>N/A</td>
</tr>
<tr>
<td>Responsivity @ pk</td>
<td>0.5 A/W</td>
<td>1 x 10⁵ / 3 x 10⁵ V/W</td>
</tr>
<tr>
<td>Operating Wavelength - (nm)</td>
<td>200 - 1000</td>
<td>1000 / 2800</td>
</tr>
<tr>
<td>Thermistor Resistance - (kΩ) typ</td>
<td>1.8 / 40</td>
<td></td>
</tr>
<tr>
<td>Cooler Current - (A) typ</td>
<td>0.00 / 0.6</td>
<td></td>
</tr>
<tr>
<td>Maximum Cooler Current - (A)</td>
<td>1.25</td>
<td></td>
</tr>
</tbody>
</table>