Photodiode

Wavelength | Type | Technology | Case
--- | --- | --- | ---
Blue-Green | water clear | GaP | 5 mm plastic lens

**Miscellaneous Parameters**

- **Parameter**
  - Active area
  - Temperature coefficient of $I_D$
  - Operating temperature range
  - Storage temperature range
  - Soldering Temperature
  - Acceptance angle at 50% $S_\lambda$

**Test conditions**

- **Symbol**
  - $A$
  - $T_C(I_D)$
  - $I_D$
  - $D$
  - $S_\lambda$

- **Value**
  - 0.62 mm$^2$
  - 5 %/K
  - -20 to +85 °C

**Unit**

- mm$^2$
- %/K
- °C

**Optical and Electrical Characteristics**

- **Parameter**
  - Breakdown voltage
  - Dark current
  - Peak sensitivity wavelength
  - Responsivity at $\lambda_p$
  - Sensitivity range at 1%
  - Spectral bandwidth at 50%
  - Shunt resistance
  - Noise equivalent power
  - Specific detectivity
  - Junction capacitance
  - Switching time ($R_L = 50 \Omega$)
  - Photocurrent at illuminant A

- **Test conditions**
  - $I_R = 10 \mu A$
  - $V_R = 5 V$
  - $V_R = 0 V$

- **Symbol**
  - $V_R$
  - $I_D$
  - $\lambda_p$

- **Value**
  - 5
  - 30 pA

**Unit**

- V
- pA
- nm
- A/W

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Note: All measurements carried out with JENOPTIK Polymer Systems equipment

**Labeling**

<table>
<thead>
<tr>
<th>Type</th>
<th>Lot N°</th>
<th>$R_D$ (typ.) [GΩ]</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPD-525-5-0.9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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We reserve the right to make changes to improve technical design and may do so without further notice.

Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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Photodiode

Responsivity spectrum

Relative photocurrent vs. Temperature

Dark Current vs. Temperature

Short-circuit current vs. illuminance (typical)

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