**Optical and Electrical Characteristics**

$T_{\text{amb}} = 25^\circ \text{C}$, unless otherwise specified

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test conditions</th>
<th>Symbol</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward voltage</td>
<td>$I_F = 20 \text{ mA}$</td>
<td>$V_F$</td>
<td>1.7</td>
<td>1.9</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Forward voltage$^2$</td>
<td>$I_F = 300 \text{ mA}$</td>
<td>$V_F$</td>
<td>2.0</td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Reverse voltage</td>
<td>$I_R = 10 \mu\text{A}$</td>
<td>$V_R$</td>
<td>5</td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Radiant power$^1$</td>
<td>$I_F = 300 \text{ mA}$</td>
<td>$\Phi_e$</td>
<td>9.5</td>
<td>12</td>
<td></td>
<td>mW</td>
</tr>
<tr>
<td>Radiant power$^2$</td>
<td>$I_F = 300 \text{ mA}$</td>
<td>$\Phi_e$</td>
<td></td>
<td>24</td>
<td></td>
<td>mW</td>
</tr>
<tr>
<td>Peak wavelength$^1$</td>
<td>$I_F = 20 \text{ mA}$</td>
<td>$\lambda_P$</td>
<td>730</td>
<td>740</td>
<td>750</td>
<td>nm</td>
</tr>
<tr>
<td>Spectral bandwidth at 50%</td>
<td>$I_F = 20 \text{ mA}$</td>
<td>$\Delta\lambda_{0.5}$</td>
<td>35</td>
<td></td>
<td></td>
<td>nm</td>
</tr>
<tr>
<td>Switching time</td>
<td>$I_F = 20 \text{ mA}$</td>
<td>$t_r, t_i$</td>
<td>50</td>
<td></td>
<td></td>
<td>ns</td>
</tr>
</tbody>
</table>

$^1$Measured on bare chip on TO-18 header  
$^2$Measured on epoxy covered chip on TO-18 header in copper heat sink (for information only)  

Note: All measurements carried out with JENOPTIK Polymer Systems equipment

**Labeling**

<table>
<thead>
<tr>
<th>Type</th>
<th>Lot N°</th>
<th>$\Phi_e$(typ) [mW]</th>
<th>$V_F$(typ) [V]</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELC-740-21</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Packing:** Chips on adhesive film with wire-bond side on top

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Symbol</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature</td>
<td>$T_{\text{STG}}$</td>
<td>15</td>
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<td>30</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Relative Humidity</td>
<td>$\text{RH}_{\text{STG}}$</td>
<td>40</td>
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<td>75</td>
<td>% RH</td>
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<tr>
<td>Storage Time</td>
<td>$t_{\text{STG}}$</td>
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<td></td>
<td></td>
<td>year</td>
</tr>
</tbody>
</table>