Green Laser Diode

**Application**
Industrial use / Biomedical

**Property**
Wavelength $\lambda = 520$ nm  
Output Power = 60 mW  
Package Type = $\varphi$ 5.6 mm

**Introduction**
Egismos currently markets InGaN-based green laser diodes 515-520 nm wavelengths range. The low operating current and high temperature of the laser diodes are achieved through using misoriented substrate and MQW (Strain compensated) active layer. Egismos laser diodes are highly rated in a broad range of applications including, but not limited to, laser pointers, green lasers, blue laser DVD, laser barcode scanners, diode laser equipments, medical instruments and aerospace applications.

### Green Laser Diode Key features

<table>
<thead>
<tr>
<th>Items</th>
<th>Symbols</th>
<th>Min</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical Output Power</td>
<td>Po(CW)</td>
<td></td>
<td>60</td>
<td></td>
<td>mW</td>
<td></td>
</tr>
<tr>
<td>Reverse Voltage</td>
<td>V</td>
<td>2</td>
<td></td>
<td></td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>To</td>
<td>-10</td>
<td>520</td>
<td>60</td>
<td>℃</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>Ts</td>
<td>-10</td>
<td>70</td>
<td>60</td>
<td>℃</td>
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</tbody>
</table>

### Electrical and Optical Characteristics at $T_c=25^\circ$ C

<table>
<thead>
<tr>
<th>Item</th>
<th>Symbols</th>
<th>Min</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
<th>Condition</th>
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<tbody>
<tr>
<td>Optical Output Power</td>
<td>Po</td>
<td>-</td>
<td>510</td>
<td>520</td>
<td>nm</td>
<td>Po=60mW</td>
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<tr>
<td>Threshold Current</td>
<td>Ith</td>
<td>-</td>
<td>45</td>
<td>75</td>
<td>mA</td>
<td></td>
</tr>
<tr>
<td>Operating Current</td>
<td>Iop</td>
<td>-</td>
<td>160</td>
<td>170</td>
<td>mA</td>
<td>Po=60mW</td>
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<tr>
<td>Operating Voltage</td>
<td>Vop</td>
<td>-</td>
<td>7.0</td>
<td>8.0</td>
<td>V</td>
<td>Po=60mW</td>
</tr>
<tr>
<td>Peak Wavelength</td>
<td>$\lambda_p$</td>
<td>510</td>
<td>520</td>
<td>530</td>
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Beam Divergence

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<th>4</th>
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<tbody>
<tr>
<td>0/\</td>
<td>16</td>
<td>22</td>
<td>25</td>
<td>deg</td>
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</tbody>
</table>

Electrical Connection (Bottom View)

Package Type

Package Drawing

Specifications are subject to change without notice.