# ULTRA VIOLET LED HIGH POWER  NS385M-CPLY

## (1) Absolute Maximum Ratings  (Ta=25°C)

<table>
<thead>
<tr>
<th>Item</th>
<th>Symbol</th>
<th>Maximum Rating</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Forward Current</td>
<td>$I_F$</td>
<td>350</td>
<td>mA</td>
</tr>
<tr>
<td>Power Dissipation</td>
<td>$P_D$</td>
<td>8.75</td>
<td>W</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>$T_{OP}$</td>
<td>-25 to +80</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>$T_{STG}$</td>
<td>-30 to +100</td>
<td>°C</td>
</tr>
<tr>
<td>Soldering Temperature*</td>
<td>$T_{SOL}$</td>
<td>350(within 3sec)</td>
<td>°C</td>
</tr>
</tbody>
</table>

* hand soldering

## (2) Dimension • Circuit Diagram (Unit : mm)

![Circuit Diagram](image)

## (3) Spectrum  (Ta=25°C)

![Spectrum Graph](image)

## (4) Directive Characteristics

![Directive Characteristics](image)

## (5) Optical and Electrical Characteristics  (Ta=25°C)

<table>
<thead>
<tr>
<th>Item</th>
<th>Symbol</th>
<th>Condition</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward Voltage</td>
<td>$V_F$</td>
<td>$I_F$=300mA</td>
<td>18.0</td>
<td>21.0</td>
<td>25.0</td>
<td>V</td>
</tr>
<tr>
<td>Peak Wavelength*</td>
<td>$\lambda_p$</td>
<td>$I_F$=300mA</td>
<td>380</td>
<td>-</td>
<td>390</td>
<td>nm</td>
</tr>
<tr>
<td>Full Width at Half Maximum</td>
<td>$\Delta \lambda$</td>
<td>$I_F$=300mA</td>
<td>10</td>
<td>-</td>
<td>20</td>
<td>nm</td>
</tr>
<tr>
<td>Optical Output Power*</td>
<td>$P_o$</td>
<td>$I_F$=300mA</td>
<td>-</td>
<td>1000</td>
<td>-</td>
<td>mW</td>
</tr>
</tbody>
</table>

*1 Measurement error is ±2nm  
*2 Measurement error is ±10%

**CAUTION**

- LEDs emit very strong UV radiation.
- Don’t look directly into the LED light. UV radiation can harm your eyes.
- To prevent even inadequate exposure, wear protective eyewear.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- Keep out of reach of children.

Specification and dimension are subject to change for improvement without notice.