ULTRA VIOLET LED HIGH POWER  NS365M-CPLY

(1) Absolute Maximum Ratings  (Ta=25℃)
(3℃/W heat sink in use)

<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_OPR</td>
<td>-25 to +80</td>
<td>℃</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>T_STG</td>
<td>-30 to +100</td>
<td>℃</td>
</tr>
<tr>
<td>Soldering Temperature*</td>
<td>T_SOL</td>
<td>350(within 3sec)</td>
<td>℃</td>
</tr>
</tbody>
</table>

* hand soldering

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

(3) Spectrum  (Ta=25℃)

(4) Directive Characteristics

<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></td>
<td>V_F=300mA</td>
<td>18.0</td>
<td>21.0</td>
<td>25.0</td>
</tr>
<tr>
<td>Peak Wavelength *1</td>
<td>λ_p</td>
<td></td>
<td>V_F=300mA</td>
<td>363</td>
<td>-</td>
<td>370</td>
</tr>
<tr>
<td>Full Width at Half Maximum</td>
<td>Δλ</td>
<td></td>
<td>V_F=300mA</td>
<td>10</td>
<td>-</td>
<td>20</td>
</tr>
<tr>
<td>Optical Output Power *2</td>
<td>P_o</td>
<td></td>
<td>V_F=300mA</td>
<td>-</td>
<td>200</td>
<td>-</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.

INSTRUCTION FOR USE
Heat dissipation should be considered in the application design to avoid the environmental conditions for operation in excess of the absolute maximum ratings. Use a heat sink.
The humidity environment of products should be maintained 40—75%RH in design and use whether keeping operating.

* Pre-soldering is on the electrode pads.

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