ULTRA VIOLET LED SMD Type

(1) Absolute Maximum Ratings

<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>700</td>
<td>mA</td>
</tr>
<tr>
<td>Junction Temperature</td>
<td>$T_j$</td>
<td>90</td>
<td>°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>$T_{OPR}$</td>
<td>-10 to +85</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>$T_{STG}$</td>
<td>-40 to +100</td>
<td>°C</td>
</tr>
</tbody>
</table>

(2) Dimension (Unit : mm)  
Tolerance ±0.2mm

(3) Recommended Soldering Pattern (Unit : mm)

(4) Optical and Electrical Characteristics (Ta=25°C, RH=30%)

<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$^1$</td>
<td>$V_F$</td>
<td>$I_F=500mA$</td>
<td>-</td>
<td>3.8</td>
<td>-</td>
<td>V</td>
</tr>
<tr>
<td>peak wavelength$^2$</td>
<td>$\lambda_p$</td>
<td>$I_F=500mA$</td>
<td>360</td>
<td>390</td>
<td>370</td>
<td>nm</td>
</tr>
<tr>
<td>Full Width at Half Maximum</td>
<td>$\Delta \lambda$</td>
<td>$I_F=500mA$</td>
<td>400</td>
<td>410</td>
<td>-</td>
<td>nm</td>
</tr>
<tr>
<td>Optical Output Power$^3$</td>
<td>$P_o$</td>
<td>$I_F=500mA$</td>
<td>-</td>
<td>800</td>
<td>-</td>
<td>mW</td>
</tr>
</tbody>
</table>

$^1$ Measurement error : ±3%  
$^2$ Measurement error : ±2nm  
$^3$ Measurement error : ±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.

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