LNJ03004GLD1
Surface Mounting Chip LED
3230 Type

■ Absolute Maximum Ratings  \( T_a = 25^\circ C \)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Rating</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power dissipation</td>
<td>PD</td>
<td>860</td>
<td>mW</td>
</tr>
<tr>
<td>Forward current (^*1)</td>
<td>( I_F )</td>
<td>120</td>
<td>mA</td>
</tr>
<tr>
<td>Pulse forward current (^*2)</td>
<td>( I_{FP} )</td>
<td>200</td>
<td>mA</td>
</tr>
<tr>
<td>Junction temperature</td>
<td>( T_j )</td>
<td>110</td>
<td>°C</td>
</tr>
<tr>
<td>Operating ambient temperature</td>
<td>( T_{opr} )</td>
<td>–30 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>

Note) *1: \( I_F \) is different by radiated factor of evaluation board.
This value is mounted on evaluation board at \( R_{thj-a} = 25.0^\circ C/W. \)
*2: The condition of pulse current \( I_{FP} \) is 55 ms pulse width, 10 % duty.

■ Electro-Optical Characteristics  \( T_a = 25^\circ C \pm 3^\circ C \)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Conditions</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_{FP} = 75 \text{ mA} )</td>
<td>5.7</td>
<td>6.2</td>
<td>6.7</td>
<td>V</td>
</tr>
<tr>
<td>Luminous flux (^*2)</td>
<td>( F )</td>
<td>( I_{FP} = 75 \text{ mA} )</td>
<td>37.0</td>
<td>50.0</td>
<td>66.0</td>
<td>lm</td>
</tr>
<tr>
<td>Chromaticity coordinates (^*3)</td>
<td>( x )</td>
<td>( I_{FP} = 75 \text{ mA} )</td>
<td>0.459</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Color Rendering Index</td>
<td>( R_a )</td>
<td>( I_{FP} = 75 \text{ mA} )</td>
<td>82</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

Note) *1: Complete Forward Voltage measurement within 0.1 seconds. Tolerance ±3%
*2: Complete Luminous flux measurement within 0.1 seconds. Tolerance ±10%
*3: Complete Chromaticity coordinates measurement within 0.1 seconds. Tolerance of chromaticity is ±0.01
### Package (Unit: mm)

- **Terminal Process**: Cu + Ag Plate
- **Mold Material**: Silicone Resin
- **Package Material**: Polymer Base Reflection case

(Note1) Tolerance unless otherwise specified: ±0.2mm
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