MSL0101 series
SRGB-S

Features
• Side view RGB LEDs
• High brightness, superior color mixing

Specifications

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Chip Structure</th>
<th>Emitter Color</th>
<th>Power Dissipation (PD) (mW)</th>
<th>Forward Current (IF) (mA)</th>
<th>Reverse Current (IR) (μA)</th>
<th>Reverse Voltage (VR) (V)</th>
<th>Operating Temperature (TOP) (°C)</th>
<th>Storage Temperature (TSTG) (°C)</th>
<th>Absolute Maximum Ratings (Ta=25°C)</th>
<th>Electrical and Optic Characteristics (Ta=25°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSL0101RGB</td>
<td>AlGaInP</td>
<td>Red</td>
<td>50</td>
<td>20</td>
<td>600</td>
<td>3.2</td>
<td>20</td>
<td>10</td>
<td>624</td>
<td>20</td>
</tr>
<tr>
<td>MSL0101RGB</td>
<td>InGaN</td>
<td>Green</td>
<td>400</td>
<td>40</td>
<td>100°</td>
<td>5</td>
<td>40 to +100</td>
<td>20</td>
<td>10</td>
<td>629</td>
</tr>
<tr>
<td>MSL0101RGB</td>
<td>Blue</td>
<td>Blue</td>
<td>40</td>
<td>40</td>
<td>100°</td>
<td>5</td>
<td>40 to +100</td>
<td>20</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>

Dimensions

Recommended Solder Pattern

Viewing Angle

Tolerance : ±0.2 (unit: mm)
**Electrical Characteristics Curves**

### Forward Current-Forward Voltage

![Forward Current-Forward Voltage Graph]

**Luminous Intensity-Atmosphere Temperature**

![Luminous Intensity-Atmosphere Temperature Graph]

**Luminous Intensity-Forward Current**

![Luminous Intensity-Forward Current Graph]

**Derating**

![Derating Graph]
Rank Reference of Brightness

- **Triple Color**

<table>
<thead>
<tr>
<th>Package Structure</th>
<th>Package Size</th>
<th>Height (mm)</th>
<th>Ih (mA)</th>
<th>140 to 180</th>
<th>180 to 220</th>
<th>220 to 280</th>
<th>280 to 360</th>
<th>360 to 450</th>
<th>450 to 560</th>
<th>560 to 710</th>
<th>710 to 900</th>
<th>900 to 1100</th>
<th>1100 to 1400</th>
<th>1400 to 1800</th>
<th>1800 to 2200</th>
<th>2200 to 2800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Side View (Reflector)</td>
<td>6922</td>
<td>2.15</td>
<td>20</td>
<td>Red</td>
<td>MilkyWhite</td>
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</tbody>
</table>

**Part No. Explanation**

**Rank sign (Brightness Rank)**

- **MSL Multi Color series**

<table>
<thead>
<tr>
<th>Series name</th>
<th>Package type</th>
<th>Emitting type</th>
<th>Emitting Color</th>
<th>Resin Color</th>
<th>Taping specifications</th>
<th>Rank sign (Chromaticity Rank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSL0101RGB</td>
<td>R</td>
<td>G</td>
<td>B</td>
<td>W</td>
<td>U</td>
<td>MilkyWhite</td>
</tr>
</tbody>
</table>

- Concerning the rank
- At three color lighting simultaneously <for white LED>
- Please refer to the rank chart above for luminous intensity classification.
- Please refer to the Specification sheet for color classification.
- Part name is individual for each rank.
- When shipped as sample, the part name will be a representative part name.
- General products are free of ranks. Please contact sales if rank appointment is needed.
- Please refer to the Specification sheet about Taping specification.

**Packing Specification**

ROHM LED products are being shipped with desiccant (silica gel) concluded in moisture-proof bags.

Pasting the moisture sensitive label on the outer surface of the moisture-proof bags or enclosing the humidity indication card inside the bag is available upon request.

Please contact the nearest sales office or distributor if necessary.
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