Model No.: YSL-R1042B5C-D13

Applications:

- Decorations
- Illuminations
- Advertising Sign
- Traffic Lights
- Indicators
- Flashlights

Absolute Maximum Ratings: \( (T_a=25°C) \)

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>Symbol</th>
<th>Absolute Maximum Rating</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward Current</td>
<td>( I_F )</td>
<td>80</td>
<td>mA</td>
</tr>
<tr>
<td>Peak Forward Current</td>
<td>( I_{FP} )</td>
<td>120</td>
<td>mA</td>
</tr>
<tr>
<td>Suggestion Using Current</td>
<td>( I_{SU} )</td>
<td>65-75</td>
<td>mA</td>
</tr>
<tr>
<td>Reverse Current (( V_s = 5V ))</td>
<td>( I_R )</td>
<td>10</td>
<td>uA</td>
</tr>
<tr>
<td>Power Dissipation</td>
<td>( P_D )</td>
<td>180</td>
<td>mW</td>
</tr>
<tr>
<td>Operation Temperature</td>
<td>( T_{OPR} )</td>
<td>-40 ~ 85</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>( T_{STG} )</td>
<td>-40 ~ 100</td>
<td>°C</td>
</tr>
<tr>
<td>Lead Soldering Temperature</td>
<td>( T_{SOl} )</td>
<td>Max. 260°C for 3 Sec. Max. (3mm from the base of the epoxy bulb)</td>
<td></td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings: \( (T_a=25°C) \)

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>Symbol</th>
<th>Test 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_R = 80mA )</td>
<td>3.0</td>
<td>-----</td>
<td>3.4</td>
<td>V</td>
</tr>
<tr>
<td>Wavelength (nm) or TC(k)</td>
<td>( \Delta \lambda )</td>
<td>( I_R = 80mA )</td>
<td>465</td>
<td>-----</td>
<td>470</td>
<td>NM</td>
</tr>
<tr>
<td>*Luminous intensity</td>
<td>( I_V )</td>
<td>( I_R = 80mA )</td>
<td>8000</td>
<td>-----</td>
<td>10000</td>
<td>MCD</td>
</tr>
<tr>
<td>50% Viewing Angle</td>
<td>( 2 \theta 1/2 )</td>
<td>( I_R = 80mA )</td>
<td>-----</td>
<td>30</td>
<td>-----</td>
<td>DEGREE</td>
</tr>
</tbody>
</table>
Mechanical Dimensions:

- All dimension are in mm, tolerance is ±0.2mm unless otherwise noted.
- An epoxy meniscus may extend about 1.5mm down the leads.
- Burr around bottom of epoxy may be 0.5mm Maximum.

Unit: mm
Code System:

YSL-R1042B5C-D13

1. Company Code, short for Young Sun
2. Code for LED series.
3. Code for LED Type.
   R: Round   B: Bullet   C: Columnar   O: Oval
   H: Helmet   Q: Square   V: Concave   P: Pag
   S: Strawhat   D: Special
4. Code for LED Lens Type.
5. Code for Lead Frame of LED
6. Code for Lead Frame Code of LED
7. Code for Wavelength Color
8. Code for Lens color
   C: Water Clear   W: White Diffused   D: Color Diffused   T: Color Transparent
9. Code for Viewing Angle
10. Luminous Intensity Grade:
    2: 50-100mcd   5: 300-500mcd   8: 1000-1500mcd   11: 3000-5000mcd   15: 13000-15000mcd
    13: 8000-10000mcd   17: 20000~mcd

Notes:

- In order to make the life longer, please set the input current below 80mA.
- Electrical & Optical Characteristics consistency of same items all shipments.
- Please use LEDs based on our datasheet.
- LED is sensitive to statics, be sure your equipments are anti-static when you use our LEDs.
- Pay more attention to your heat dissipation system when you use it, the better heat dissipation, the longer LED lifespan.