Model No.: YSL-R547W2C-A13

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

Absolute Maximum Ratings: (Ta=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>20</td>
<td>mA</td>
</tr>
<tr>
<td>Peak Forward Current</td>
<td>I_FP</td>
<td>30</td>
<td>mA</td>
</tr>
<tr>
<td>Suggestion Using Current</td>
<td>I_SU</td>
<td>16-18</td>
<td>mA</td>
</tr>
<tr>
<td>Reverse Current (V_R=5V)</td>
<td>I_R</td>
<td>10</td>
<td>uA</td>
</tr>
<tr>
<td>Power Dissipation</td>
<td>P_D</td>
<td>105</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 expoxy bulb)</td>
<td></td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings: (Ta=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=20mA</td>
<td>3.2</td>
<td>----</td>
<td>3.4</td>
<td>V</td>
</tr>
<tr>
<td>Wavelength (nm) or TC(k)</td>
<td>6000</td>
<td>I_R=20mA</td>
<td>6000</td>
<td>----</td>
<td>8000</td>
<td>K</td>
</tr>
<tr>
<td>*Luminous intensity</td>
<td>I_V</td>
<td>I_R=20mA</td>
<td>8000</td>
<td>----</td>
<td>10000</td>
<td>mcd</td>
</tr>
<tr>
<td>50% Viewing Angle</td>
<td>2 θ 1/2</td>
<td>I_R=20mA</td>
<td>----</td>
<td>----</td>
<td>10</td>
<td>deg</td>
</tr>
</tbody>
</table>
## Light Degradation in mcd: \( (I_F=20\text{mA}) \)

<table>
<thead>
<tr>
<th>Colors</th>
<th>Hours</th>
<th>Light Degradation in mcd after Different Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>216 Hrs</td>
<td>360 Hrs</td>
</tr>
<tr>
<td>Red</td>
<td>1.52%</td>
<td>-1.22%</td>
</tr>
<tr>
<td>Yellow</td>
<td>-1.71%</td>
<td>-2.97%</td>
</tr>
<tr>
<td>Blue</td>
<td>3.13%</td>
<td>-0.33%</td>
</tr>
<tr>
<td>Green</td>
<td>-8.02%</td>
<td>-9.78%</td>
</tr>
<tr>
<td>Cool White</td>
<td>48 Hrs</td>
<td>168 Hrs</td>
</tr>
<tr>
<td>Pure White</td>
<td>10.56%</td>
<td>6.72%</td>
</tr>
<tr>
<td>Warm White</td>
<td>13.66%</td>
<td>8.22%</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.

![Viewing Angle Drawing](image-url)
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### Packing Information:

1. **Anti-static bag**
   - 200 - 500pcs per bag
   - With 1 little bag of drier inside
   - 30 - 40 bags per box
   - 15-20K pcs per box

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### Anti-static Tube Packaging Information:

- Taping dimension can be adjusted to customer's requirements.
- 8-10 Layers per box
- 16K-20K pcs per box
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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: Pagoda
   - 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
   - A: 1-10
   - B: 10-20
   - C: 20-30
   - D: 30-40
   - E: 40-60
   - F: 60-90
   - G: 90-120
   - H: >120
10. Luminous Intensity Grade:
    - 1: 1-50mcd
    - 2: 50-100mcd
    - 3: 100-200mcd
    - 4: 200-300mcd
    - 5: 300-500mcd
    - 6: 500-800mcd
    - 7: 800-1000mcd
    - 8: 1000-1500mcd
    - 9: 1500-2000mcd
    - 10: 2000-3000mcd
    - 11: 3000-5000mcd
    - 12: 5000-8000mcd
    - 13: 8000-10000mcd
    - 14: 10000-13000mcd
    - 15: 13000-15000mcd
    - 16: 15000-20000mcd
    - 17: 20000~mcd

Warranteen:
- In order to make the LEDs lifespan longer, please set the input Current below 20mA.

- Electrical & Optical Characteristics consistency of same items all shippments.

Notes:
- 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.