LED LAMP

CL-2014YD1A

Features:
- General purpose leads
- RoHs compliant.

Descriptions:
- Dice material: GaP
- Emitting Color: Yellow
- Device Outline: Φ2.8*3.5mm Tower Type.
- Lens Type: Yellow diffused

Radiation pattern.

Absolute maximum ratings (Ta=25 °C):

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MAX.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Dissipation</td>
<td>50</td>
<td>mW</td>
</tr>
<tr>
<td>Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)</td>
<td>100</td>
<td>mA</td>
</tr>
<tr>
<td>Continuous Forward Current</td>
<td>20</td>
<td>mA</td>
</tr>
<tr>
<td>Derating Linear From 50 °C</td>
<td>0.4</td>
<td>mA/°C</td>
</tr>
<tr>
<td>Reverse Voltage</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-30 °C to +80 °C</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-40 °C to +100 °C</td>
<td></td>
</tr>
<tr>
<td>Lead Soldering Temperature[4mm(.157&quot;) From Body]</td>
<td>260 °C for 5 Seconds</td>
<td></td>
</tr>
</tbody>
</table>

Electrical and optical characteristics (Ta=25 °C):

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
<th>Test Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminous Intensity</td>
<td>( I_V )</td>
<td>–</td>
<td>20</td>
<td>–</td>
<td>mcd</td>
<td>( I_F=20mA )</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>( 2\theta_{1/2} )</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>Deg</td>
<td></td>
</tr>
<tr>
<td>Peak Emission</td>
<td>( \lambda_p )</td>
<td>583</td>
<td>588</td>
<td>593</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Dominant Wavelength</td>
<td>( \lambda_d )</td>
<td>585</td>
<td>590</td>
<td>595</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Spectral Line Half-Width</td>
<td>( \Delta\lambda )</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Forward Voltage</td>
<td>( V_F )</td>
<td>1.7</td>
<td>2.1</td>
<td>2.4</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Reverse Current</td>
<td>( I_R )</td>
<td>10</td>
<td></td>
<td></td>
<td>µA</td>
<td>( V_R=5V )</td>
</tr>
</tbody>
</table>

- All dimensions are millimeters (inches)
- Tolerance is ± 0.25mm (.010") unless otherwise noted.
Typical Electrical Characteristics Curves
(25 °C Ambient Temperature Unless Otherwise Noted)

- Spectral Redundance
- Wave Length (nm)
- Forward Current Vs Forward Voltage
- Relative Luminous intensity vs Forward current
- Luminous Intensity Vs. Ambient Temperature
- Ambient Temperature TA(°C)
- Forward Current Derating Curve
- Forward Current(IF(mA)) vs Forward Voltage(V)
- Relative Intensity (Lop@20mA=1)
- Normalized Response Wave Length (nm)
- Spectral Redundance

GaP
AlGaInP or AlGaAs
peak@588nm/yellow
**LED LAMP**

**LAMP PACKING.**

- **Label 1**
  - **DEVICE**
  - **QTY/ polybag (pcs)**
  - **Polybag/box A**
  - **Fig**
  - 5mm(T-1 3/4) 1000 8 bags Label 1
  - 3mm(T-1) 1000 10 bags Label 1
  - 10mm(T-1) 250 8 bags Label 1
  - Blue/Green/White 500 8 bags Label 2

- **Label 2**

**CARTON**

- Dimension (cm): 39*32*38

- 6 Boxes/Carton
  - 5mm: 48,000 pcs
  - 3mm: 60,000 pcs
  - 10mm: 12,000 pcs
  - Blue/Pure Green/Bluish Green/White: 24,000 pcs