Features:
* High Luminance output.
* Design for High Current Operation.
* Uniform Color.
* Low Power Consumption.
* Low Thermal Resistance.
* Low Profile.
* Packaged in tubes for use with automatic insertion equipment.
* Soldering methods: Wave soldering
* RoHS Compliant.

Benefits:
* Outstanding Material Efficiency.
* Electricity savings.
* Maintenance savings.
* Reliable and Rugged.

Typical Applications:
* Automotive Exterior Lighting.
* Electronic Signs and Signals.
* Specialty Lighting.
Outline Drawings

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Absolute Maximum Ratings at TA=25°C

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>SY/J2</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Forward Current</td>
<td>70</td>
<td>mA</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>245</td>
<td>mW</td>
</tr>
<tr>
<td>Reverse Voltage</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 To +85</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-55 To +85</td>
<td>°C</td>
</tr>
<tr>
<td>Lead Solder Temperature[1]</td>
<td>260°C For 5 Seconds</td>
<td></td>
</tr>
</tbody>
</table>

1. 1.1mm[0.06inch] below seating plane.
   NO Reflow soldering
### Notes:

1. Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%.
2. $\theta_{1/2}$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

### Optical Characteristics at TA=25°C

$I=70\text{mA}$  $R_{8j-a}=200\degree \text{C/W}$

<table>
<thead>
<tr>
<th>DEVICE TYPE</th>
<th>PEAK WAVELENGTH $\lambda_{\text{PEAK}}$ (nm) TYP.</th>
<th>DOMINANT[1] WAVELENGTH $\lambda_{\text{DOM}}$ (nm) TYP.</th>
<th>SPECTRAL LINE WAVELENGTH $\Delta\lambda_{1/2}$ (nm) TYP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY/J2</td>
<td>590</td>
<td>589</td>
<td>20</td>
</tr>
</tbody>
</table>

Note:
1. The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

### Electrical Characteristics at TA=25°C

<table>
<thead>
<tr>
<th>DEVICE TYPE</th>
<th>FORWARD VOLTAGE [1] $V_{f}$ (VOLTS) @ $I_{f}=70\text{mA}$</th>
<th>REVERSE CURRENT $I_{r}$ (uA) @ $V_{r}=5\text{V}$</th>
<th>CAPACITANCE $C$ (pF) @ $V_{r}=0\text{V}$ $F=1\text{MHZ}$</th>
<th>THERMAL RESISTANCE $R_{8j}$ -pin °C/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY/J2</td>
<td>2.2</td>
<td>2.9</td>
<td>3.5</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>MAX.</td>
<td>MAX.</td>
<td>TYP.</td>
<td>TYP.</td>
</tr>
<tr>
<td></td>
<td>3.5</td>
<td>10</td>
<td>45</td>
<td>125</td>
</tr>
</tbody>
</table>

Note:
1. Forward Voltage: +/-0.1V.
Figures

YELLOW

Ta=25°C

RELATIVE INTENSITY Vs. WAVELENGTH

FORWARD CURRENT (mA)

RELATIVE INTENSITY

OFF AXIS ANGLE (DEGREES)

RELATIVE INTENSITY Vs. OFF AXIS ANGLE
PACKING & LABEL SPECIFICATIONS

Kingbright

P/N: WP7679C1xxx

QTY: 750 pcs
S/N: XXXX
CODE: XXX

Lot No:

RoHS Compliant

OUTSIDE LABEL

LABEL

750pcs / 10pcs IC TUBE

7.5K / 6# BOX

10pcs IC TUBE / BAG

750pcs / IC TUBE (520x8.3x15mm)