SUPER FLUX LED LAMP

PRELIMINARY SPEC

Part Number: WP7679C1QBC/D

Technical Data

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Description
Static electricity and surge damage the LEDs. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs. All devices, equipment and machinery must be electrically grounded.

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>QB/D</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Forward Current</td>
<td>30</td>
<td>mA</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>126</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. 1.5mm[0.06inch] below seating plane.
   NO Reflow soldering.
## Optical Characteristics at TA=25°C

<table>
<thead>
<tr>
<th>DEVICE TYPE</th>
<th>PEAK WAVELENGTH</th>
<th>DOMINANT[1] WAVELENGTH</th>
<th>SPECTRAL LINE WAVELENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>QB/D</td>
<td>468</td>
<td>470</td>
<td>25</td>
</tr>
</tbody>
</table>

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

## Electrical Characteristics at TA=25°C

<table>
<thead>
<tr>
<th>DEVICE TYPE</th>
<th>FORWARD VOLTAGE [1]</th>
<th>REVERSE CURRENT</th>
<th>CAPACITANCE</th>
<th>THERMAL RESISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Vf (VOLTS) @ I=30mA</td>
<td>Ir (uA) @ Vn=5V</td>
<td>C (pF) @ Vf=0V F=1MHZ</td>
<td>Rθj-pin °C/W</td>
</tr>
<tr>
<td>QB/D</td>
<td>3.5</td>
<td>10</td>
<td>100</td>
<td>180</td>
</tr>
</tbody>
</table>

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

- Figure 1: Relative Radiant Intensity vs. Wavelength
- Figure 2: Forward Current vs. Forward Voltage
- Figure 3: Relative Intensity at IF=30mA vs. Forward Current
- Figure 4: Max DC Forward Current vs. Ambient Temperature
- Figure 5: Relative Intensity vs. Off Axis Angle
PACKING & LABEL SPECIFICATIONS

WP7679C1QBC/D

75PCS / IC TUBE (320x8.3x15mm)

750pcs / 10pcs IC TUBE

OUTSIDE LABEL

LABEL

7.5K / 6# BOX

10pcs IC TUBE / BAG

Kingbright

P/N: WP7679C1xxx

QTY: 750 pcs

S/N: XXXX

CODE: XXX

LOT NO: XXXXXXXXXXX

RoHS Compliant