Part Number: XBMR53D
T-1 3/4 (5mm) BLINKING LED LAMP

Features
- 5mm package with built-in blinking IC
- Blinking frequency: 3.0Hz to 1.5Hz
- Operation voltage: 3.5V to 14V
- RoHS compliant.

Package Schematics

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Absolute Maximum Ratings (TA=25°C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Red (GaAlAs)</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Voltage</td>
<td>Vr</td>
<td>V</td>
</tr>
<tr>
<td>Forward Voltage</td>
<td>Vf</td>
<td>V</td>
</tr>
<tr>
<td>Power Dissipation</td>
<td>Pd</td>
<td>mW</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>TA</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>Tstg</td>
<td></td>
</tr>
<tr>
<td>Lead Solder Temperature [2mm Below Package Base]</td>
<td>260°C For 3 Seconds</td>
<td></td>
</tr>
<tr>
<td>Lead Solder Temperature [5mm Below Package Base]</td>
<td>260°C For 5 Seconds</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

Operating Characteristics (TA=25°C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Red (GaAlAs)</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward Current (Min.) (Vf=3.5V)</td>
<td>I_f</td>
<td>mA</td>
</tr>
<tr>
<td>Forward Current (Typ.) (Vf=5V)</td>
<td>I_f</td>
<td>mA</td>
</tr>
<tr>
<td>Supply Current (Typ.) (Vf=3.5V)</td>
<td>ISON</td>
<td>mA</td>
</tr>
<tr>
<td>Supply Current (Typ.) (Vf=14V)</td>
<td>ISON</td>
<td>mA</td>
</tr>
<tr>
<td>Blink Frequency (Min.-Max.) (Vf=3.5V-14V)</td>
<td>f</td>
<td>Hz</td>
</tr>
<tr>
<td>Wavelength of Peak Emission CIE127-2007* (Typ.)</td>
<td>λp</td>
<td>nm</td>
</tr>
<tr>
<td>Wavelength of Dominant Emission CIE127-2007* (Typ.)</td>
<td>λD</td>
<td>nm</td>
</tr>
<tr>
<td>Spectral Line Full Width At Half-Maximum (Typ.)</td>
<td>△λ</td>
<td>nm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>XBMR53D</td>
<td>Red</td>
<td>GaAlAs</td>
<td>Red Diffused</td>
<td>120* 40° 198* 79° 655* 60°</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
Part Number: XBMR53D

T-1 3/4 (5mm) BLINKING LED LAMP

Red

Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)

Note:
1. Recommend pre-heat temperature of 100°C or less (as measured with a
   thermocouple attached to the LED pin) prior to immersion in the solder
   wave with a maximum solder bath temperature of 260°C.
2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec
   (5 sec max).
3. Do not apply stress to the epoxy case while the temperature is above 85°C.
4. Pallets should not linear stress on the component when mounting and
   during soldering process.
5. SAC 305 solder alloy is recommended.
6. No more than one wave soldering pass.

Oct 10, 2016

XDSA2650  V9-X  Layout: Maggie L.
PACKING & LABEL SPECIFICATIONS

TERMS OF USE
1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
2. Contents within this document are subject to improvement and enhancement changes without notice.
3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet.
   User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
5. The contents within this document may not be altered without prior consent by SunLED.

P/N: XBxxx53

QTY: 500 pcs
CODE: XXX

S/N: XX

LOT NO:

RoHS Compliant

Q.C. XX XX XXXX
PASSED

20k / BOX

500PCS / BAG

10k / BOX

OUSTSIDE LABEL

LABEL

Oct 10,2016

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