

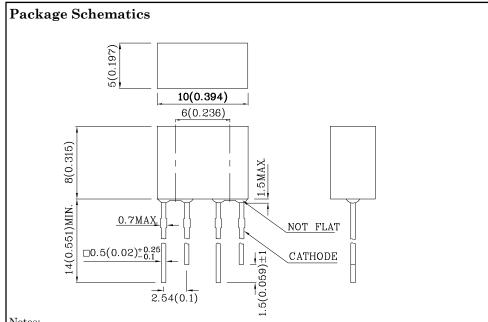
 $5 \text{mm} \times 10 \text{mm}$ LIGHT BAR

Features

- Robust package
- Uniform light disbursement
- Ideal for backlighting logos or icons
- Excellent for flush mounting
- RoHS compliant







Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

| Absolute Maximum Ratings (T _A =25°C) | | MG (GaP) | Unit | |
|--|---------------------|-------------|------|--|
| Reverse Voltage | $V_{\rm R}$ | 5 | V | |
| Forward Current | I_{F} | 25 | mA | |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | ifs | 140 | mA | |
| Power Dissipation | P_{D} | 62.5 | mW | |
| Operating Temperature | T_A -40 ~ +85 | | °C | |
| Storage Temperature | Tstg | -40 ~ +85 | | |
| Lead Solder Temperature [2mm Below Package Base] | 260°C For 3 Seconds | | | |
| Lead Solder Temperature [5mm Below Package Base] | 260°C For 5 Seconds | | | |

| Operating Characteristics (T_A =25°C) | | MG (GaP) | Unit |
|--|---------------------|-------------|------|
| Forward Voltage (Typ.) (I _F =20mA) | V_{F} | 2.2 | V |
| Forward Voltage (Max.) (I _F =20mA) | V_{F} | 2.5 | V |
| Reverse Current (Max.) $(V_R=5V)$ | I_R | 10 | uA |
| Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA) | λΡ | 565* | nm |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=20\text{mA})$ | λD | 568* | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA) | $\triangle \lambda$ | 30 | nm |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | С | 15 | pF |

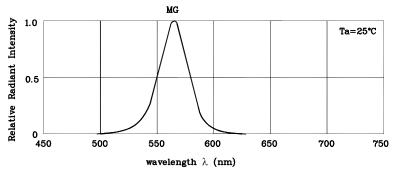
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity CIE127-2007* (I _F =20mA) mcd | | Wavelength CIE127-2007* nm λP | Viewing Angle 20 1/2 |
|----------------|-------------------|----------------------|----------------|---|------|--|----------------------------|
| | | | | min. | typ. | | |
| XEMG22D | Green | GaP | Green Diffused | 6* | 11* | 565* | 120° |

^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Jan 03,2014 XDSA1932 V8-Z Layout: Maggie L.



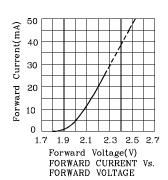


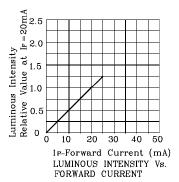


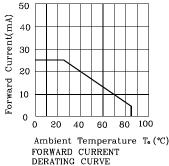
40° 30° 20° 10° 0° Ta=25℃ 1.0 50 609 0.4 70 0.2 809 0 90° 1.0 0.8 0.6 0° 20° 40° 60° 80° 100° 120° SPATIAL DISTRBUTION

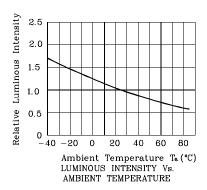
RELATIVE INTENSITY Vs. CIE WAVELENGTH

❖ MG

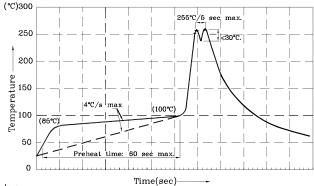








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



Notes:

- Notes. I. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of $260^{\circ}C$ 2. Peak wave soldering temperature between $245^{\circ}C$ \sim $255^{\circ}C$ for 3 sec
- (5 sec max).
- 3.Do not apply stress to the epoxy resin while the temperature is above $85\,^\circ\text{C}.$ 4.Fixtures should not incur 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.

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength),

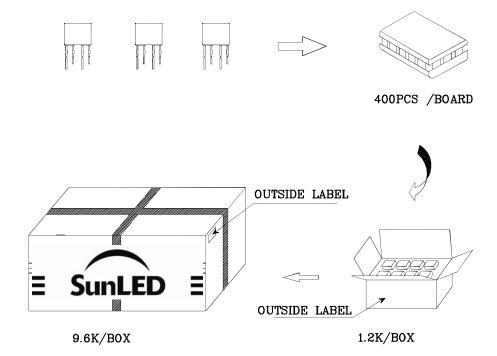
the typical accuracy of the sorting process is as follows:

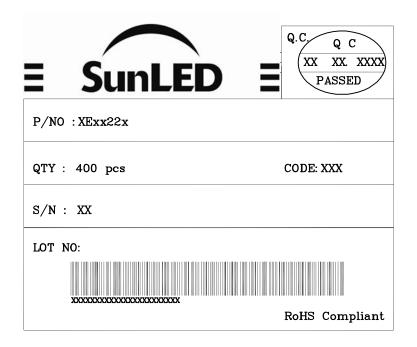
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

5mm x 10mm LIGHT BAR

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.
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- 6. Additional technical notes are available at http://www.SunLEDusa.com/TechnicalNotes.asp

Jan 03,2014