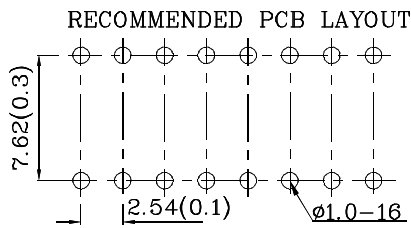
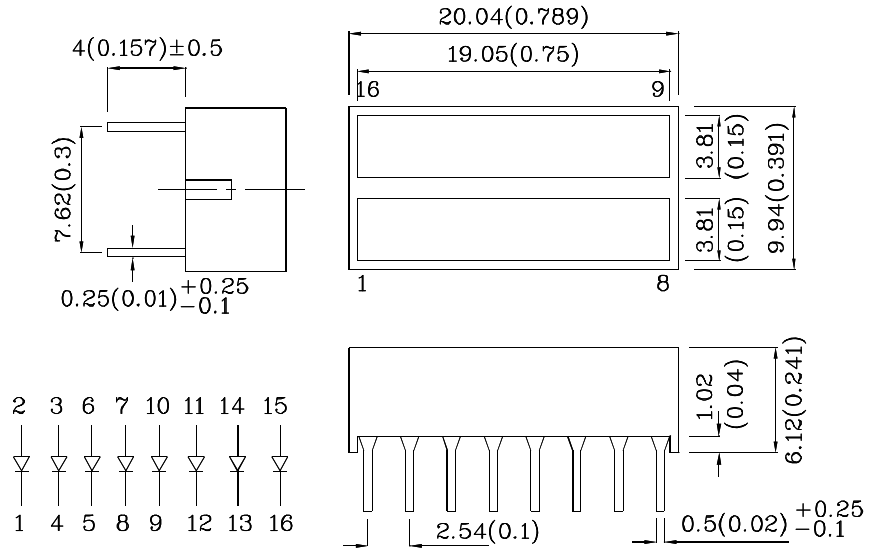


Features

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



Package Schematics



Notes:

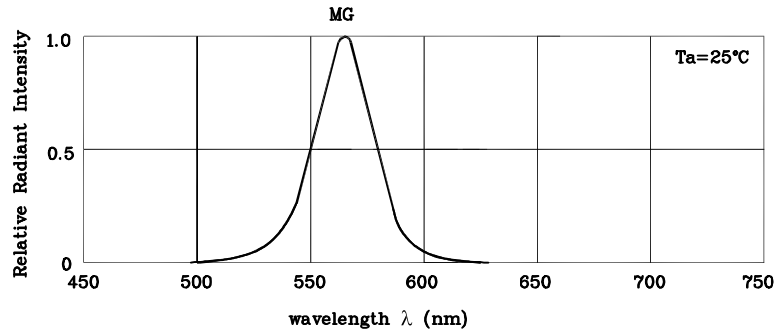
1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01") unless otherwise noted.
2. Specifications are subject to change without notice.

| Absolute Maximum Ratings (T _A =25°C) | | MG (GaP) | Unit |
|--|-----------------------|-----------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | I _F | 25 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i _{FS} | 140 | mA |
| Power Dissipation | P _D | 62.5 | mW |
| Operating Temperature | T _A | -40 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | |
| Lead Solder Temperature [2mm Below Package Base] | 260°C For 3-5 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) | λ _P | 565* | nm |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA) | λ _D | 568* | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA) | Δλ | 30 | nm |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | C | 15 | pF |

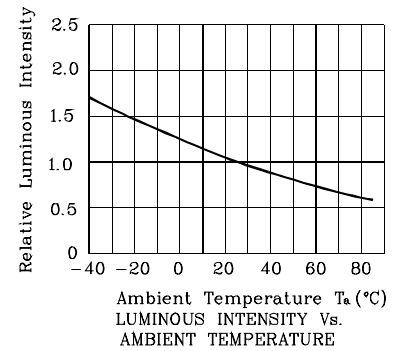
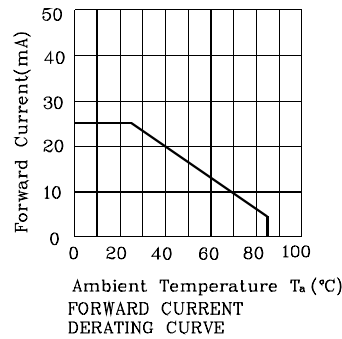
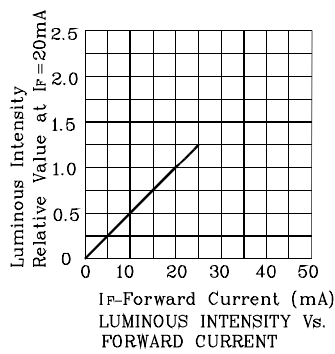
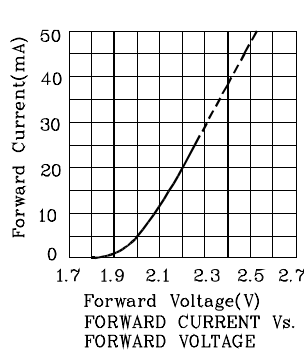
| Part Number | Emitting Color | Emitting Material | Luminous Intensity CIE127-2007* (I _F =20mA) mcd | | Wavelength CIE127-2007* nm λ _P | Lens-color |
|-------------|----------------|-------------------|--|----------|---|----------------|
| | | | min. | typ. | | |
| XEMG2835D | Green | GaP | 12 3* | 24 7* | 565* | Green Diffused |

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

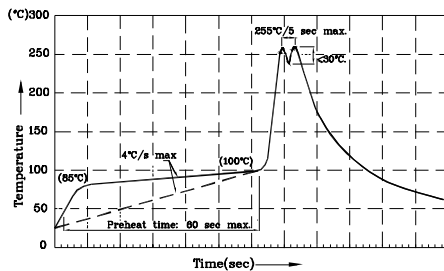


RELATIVE INTENSITY Vs. CIE WAVELENGTH

❖ MG



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



- Notes:
- 1.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°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 resin while the temperature is above 85°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.
 - 7.During wave soldering, the PCB top-surface temperature should be kept below 105°C.

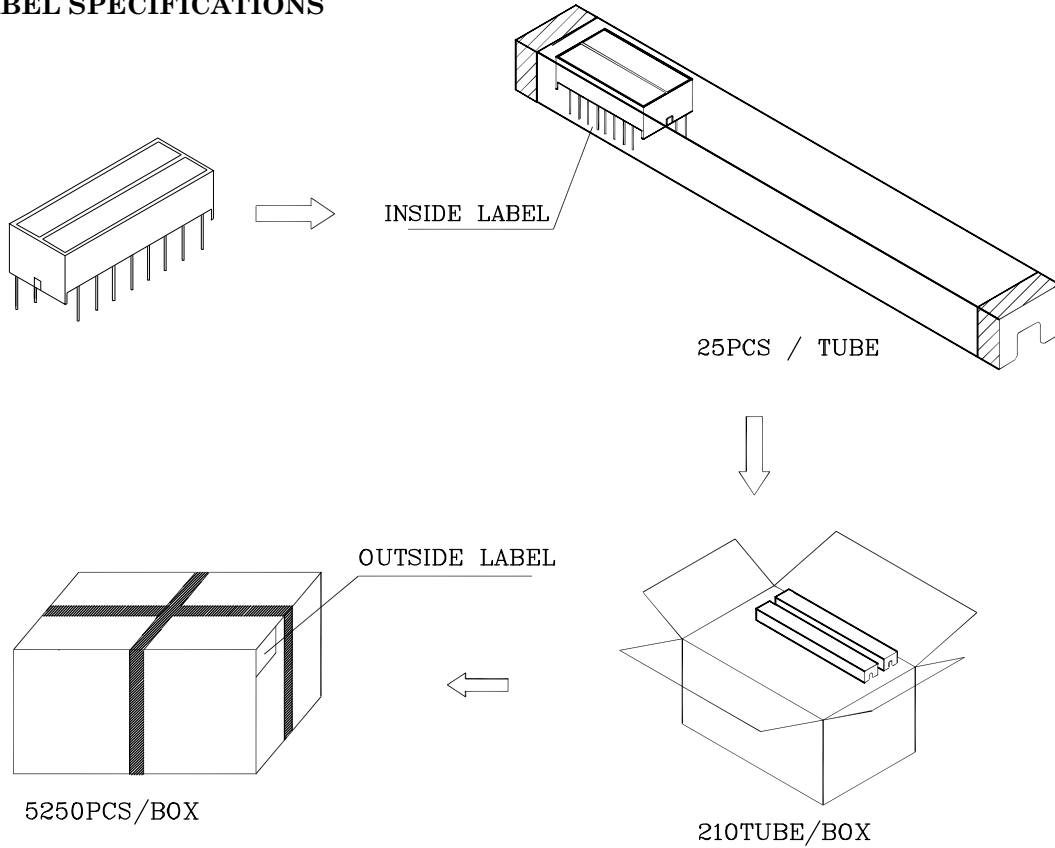
Remarks:

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:

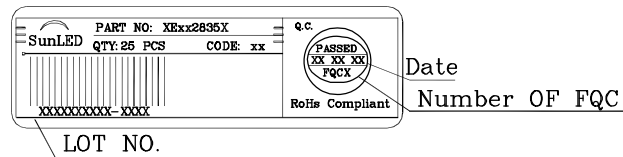
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

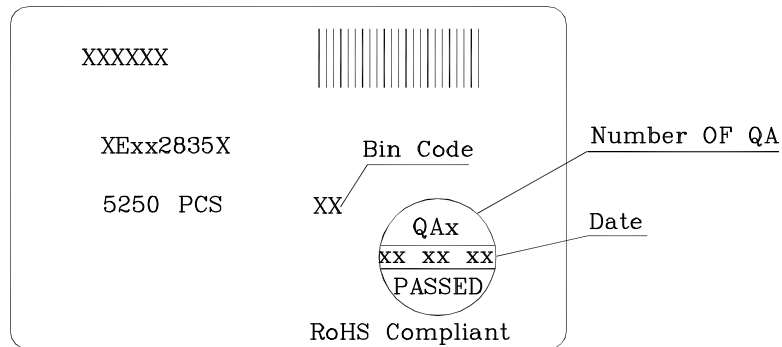
PACKING & LABEL SPECIFICATIONS



Inside Label On IC-tube



Outside Label On Box



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