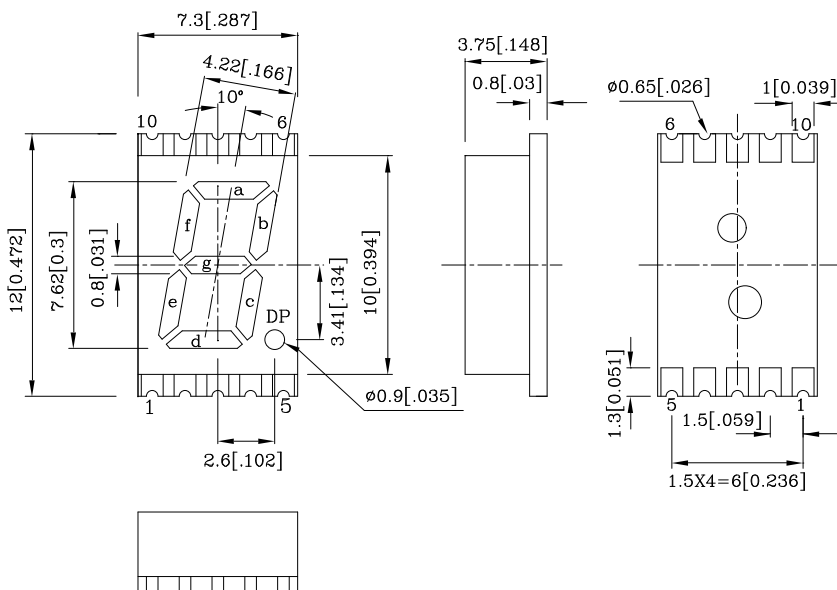
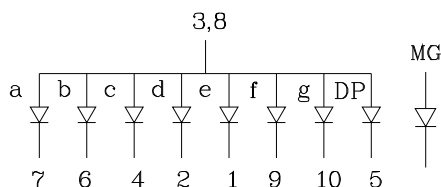


## Features

- 0.3 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- GRAY FACE,WHITE SEGMENT.
- PACKAGE : 550PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.



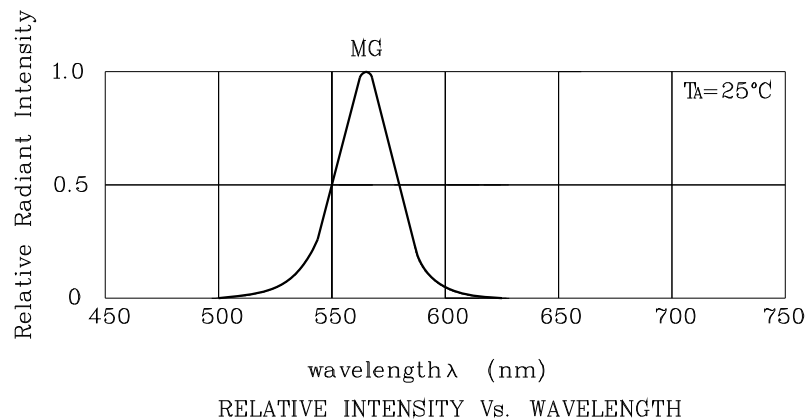
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- 3.The gap between the reflector and PCB shall not exceed 0.25mm.
4. Specifications are subject to change without notice.

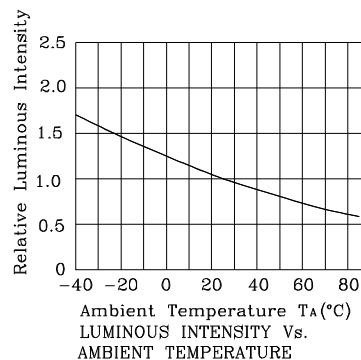
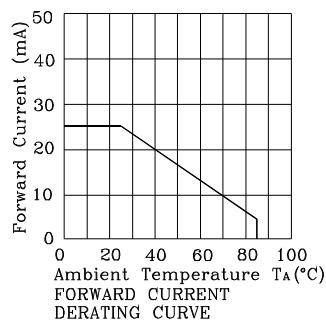
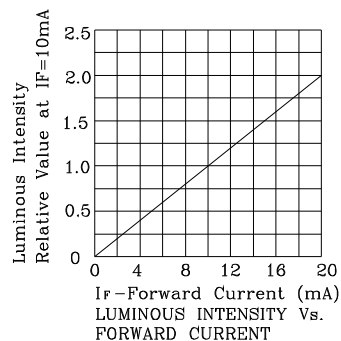
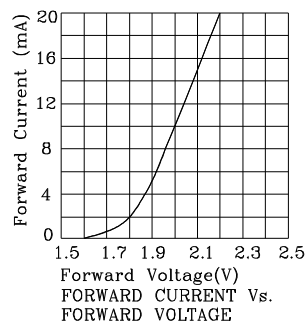
| Absolute Maximum Ratings<br>(TA=25°C)                          |      | MG<br>(GaP) | Unit |
|----------------------------------------------------------------|------|-------------|------|
| Reverse Voltage                                                | VR   | 5           | V    |
| Forward Current                                                | IF   | 25          | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | iFS  | 140         | mA   |
| Power Dissipation                                              | PT   | 62.5        | mW   |
| Operating Temperature                                          | TA   | -40 ~ +85   | °C   |
| Storage Temperature                                            | Tstg | -40 ~ +85   |      |

| Operating Characteristics<br>(TA=25°C)                          |     | MG<br>(GaP) | Unit |
|-----------------------------------------------------------------|-----|-------------|------|
| Forward Voltage (Typ.)<br>(IF=10mA)                             | VF  | 2.0         | V    |
| Forward Voltage (Max.)<br>(IF=10mA)                             | VF  | 2.5         | V    |
| Reverse Current (Max.)<br>(VR=5V)                               | IR  | 10          | uA   |
| Wavelength Of Peak<br>Emission (Typ.)<br>(IF=10mA)              | λ P | 565         | nm   |
| Wavelength Of Dominant<br>Emission (Typ.)<br>(IF=10mA)          | λ D | 568         | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(IF=10mA) | Δλ  | 30          | nm   |
| Capacitance<br>(VF=0V, f=1MHz)                                  | C   | 15          | pF   |

| Part Number                  | Emitting Color | Emitting Material | Luminous Intensity (IF=10mA)<br>ucd | Wavelength<br>nm<br>λ P | Description                        |
|------------------------------|----------------|-------------------|-------------------------------------|-------------------------|------------------------------------|
|                              |                |                   | min.                                | typ.                    |                                    |
| ZFMG07A                      | Green          | GaP               | 1200                                | 5590                    | 565 Common Anode. Rt. Hand Decimal |
| Published Date : MAR 03,2008 |                |                   |                                     |                         |                                    |
| Drawing No : SDSA5321        |                | V3                |                                     | Checked : Shin Chi      |                                    |
| P.1/4                        |                |                   |                                     |                         |                                    |



❖ MG



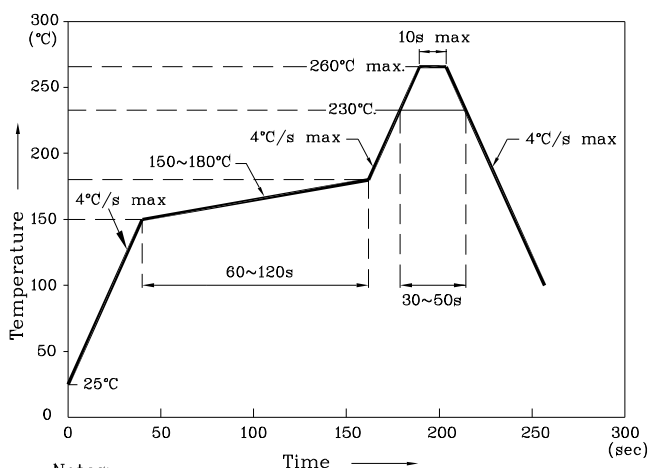
Remarks:

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:  $\pm 1\text{nm}$
2. Luminous Intensity / Luminous Flux:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

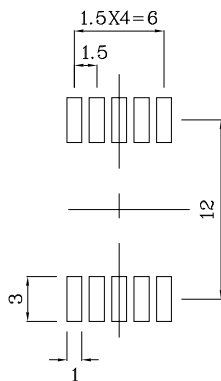
Reflow Soldering Profile For Lead-free SMT Process.



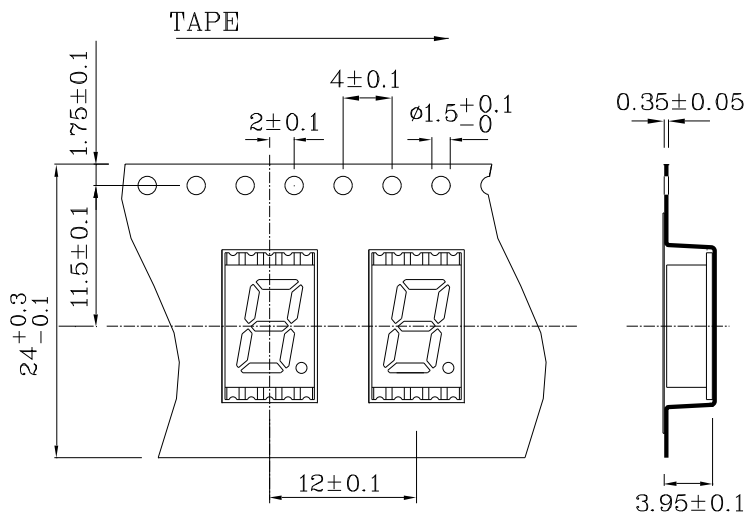
Notes:

1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C-260°C.
3. Do not put stress to the epoxy resin during high temperatures conditions.

❖ Recommended Soldering Pattern (Units : mm;Tolerance:± 0.15)



❖ Tape Specification (Units : mm)



**PACKING & LABEL SPECIFICATIONS ZFMG07A**

