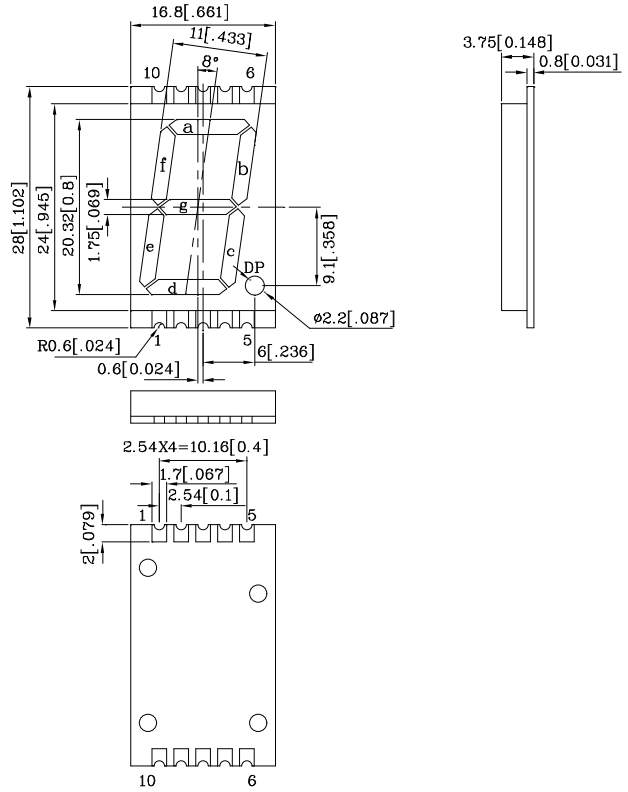
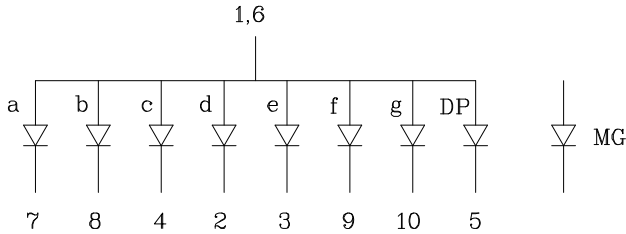


PRELIMINARY SPEC

Features

- 0.8 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- GRAY FACE, WHITE SEGMENT.
- PACKAGE : 200PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.



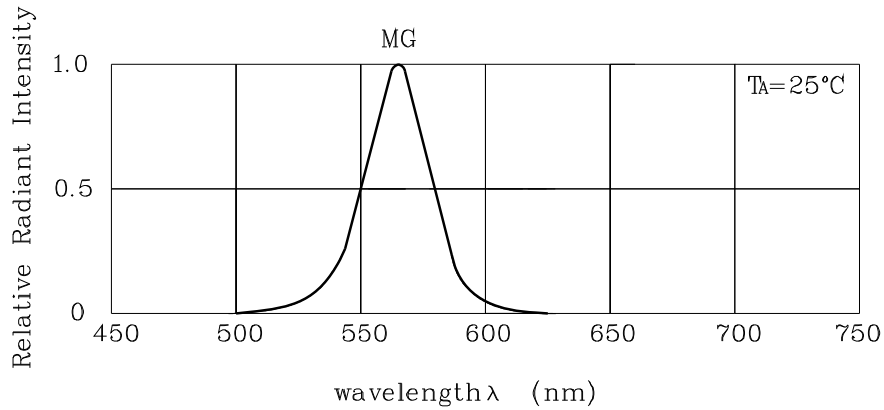
Notes:

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 (TA=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 _T | 62.5 | mW |
| Operating Temperature | T _A | -40 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | |

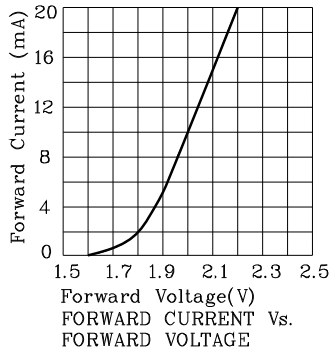
| Operating Characteristics (TA=25°C) | | MG (GaP) | Unit |
|------------------------------------------------------------------------------|----------------|-------------|------|
| Forward Voltage (Typ.) (I _F =10mA) | V _F | 2.0 | V |
| Forward Voltage (Max.) (I _F =10mA) | V _F | 2.5 | V |
| Reverse Current (Max.) (V _R =5V) | I _R | 10 | uA |
| Wavelength of Peak Emission (Typ.) (I _F =10mA) | λ _P | 565 | nm |
| Wavelength of Dominant Emission (Typ.) (I _F =10mA) | λ _D | 568 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA) | Δλ | 30 | nm |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | C | 15 | pF |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity (I _F =10mA) ucd | | Wavelength nm λ _P | Description |
|-------------|----------------|-------------------|-----------------------------------------------------|------|------------------------------------|--------------------------------|
| | | | min. | typ. | | |
| XZFMG20A-A | Green | GaP | 1900 | 7490 | 565 | Common Anode. Rt. Hand Decimal |

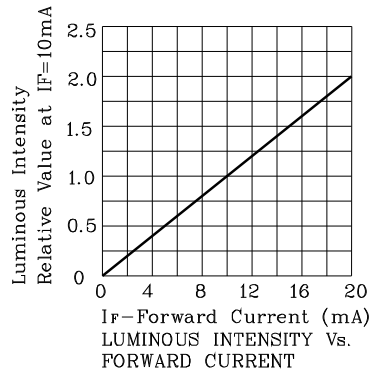


RELATIVE INTENSITY Vs. WAVELENGTH

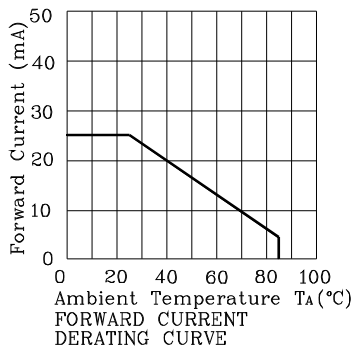
❖ MG



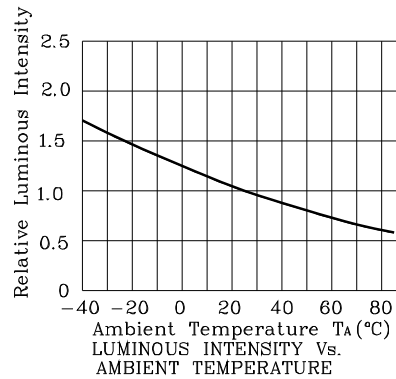
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

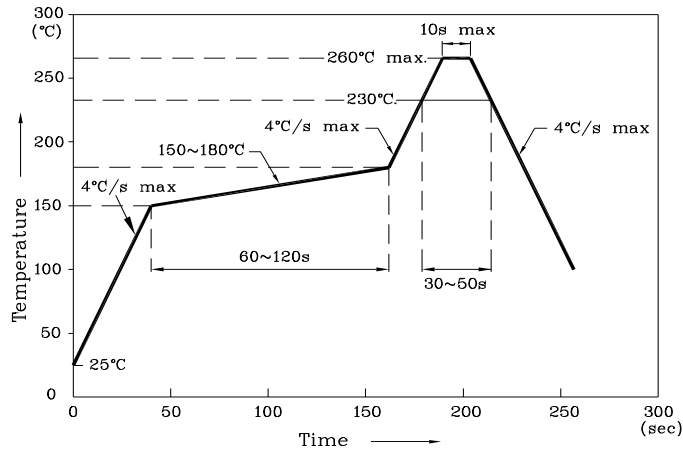
Remarks:

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.

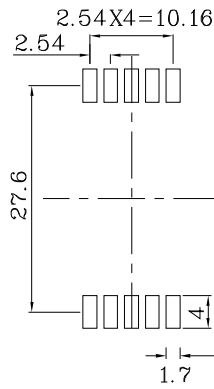
Reflow Soldering Profile For Lead-free SMT Process.



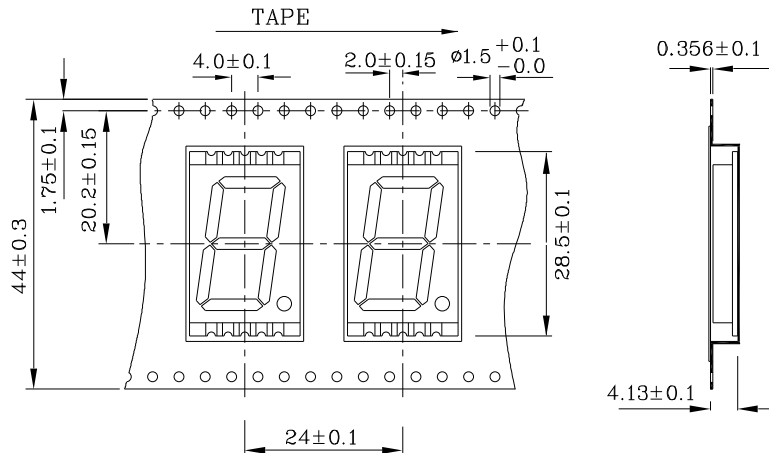
Notes:

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)

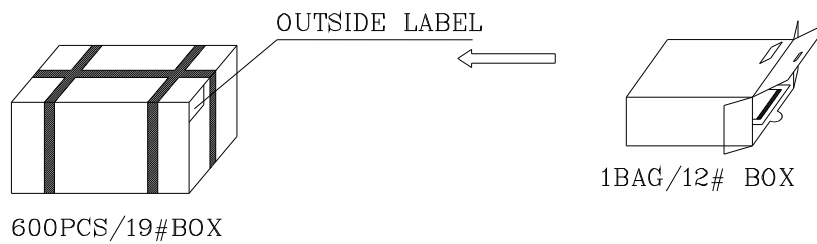
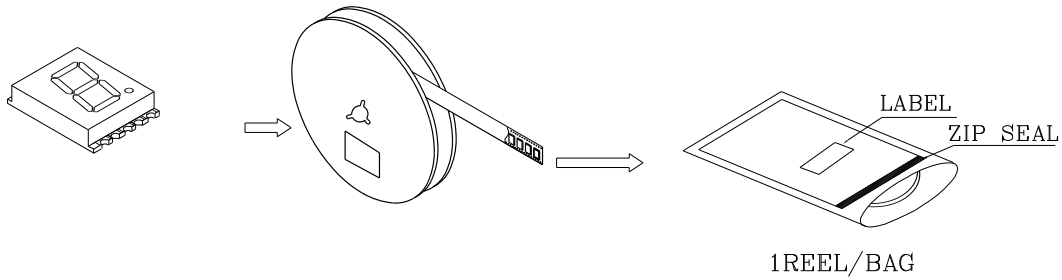


❖ Tape Specification (Units : mm)



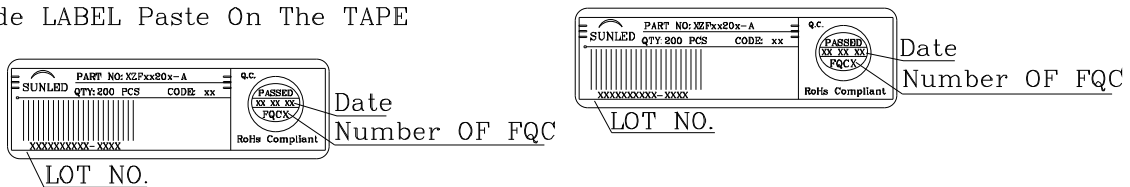
PACKING & LABEL SPECIFICATIONS

XZFMG20A-A



Outside LABEL Paste On The BAG

Inside LABEL Paste On The TAPE



Outside LABEL Paste On The 19#Box

Outside LABEL Paste On The 12#Box

