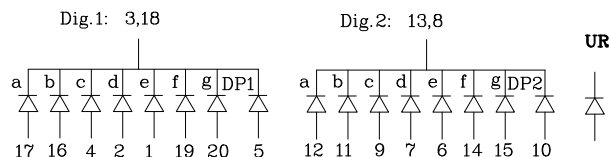
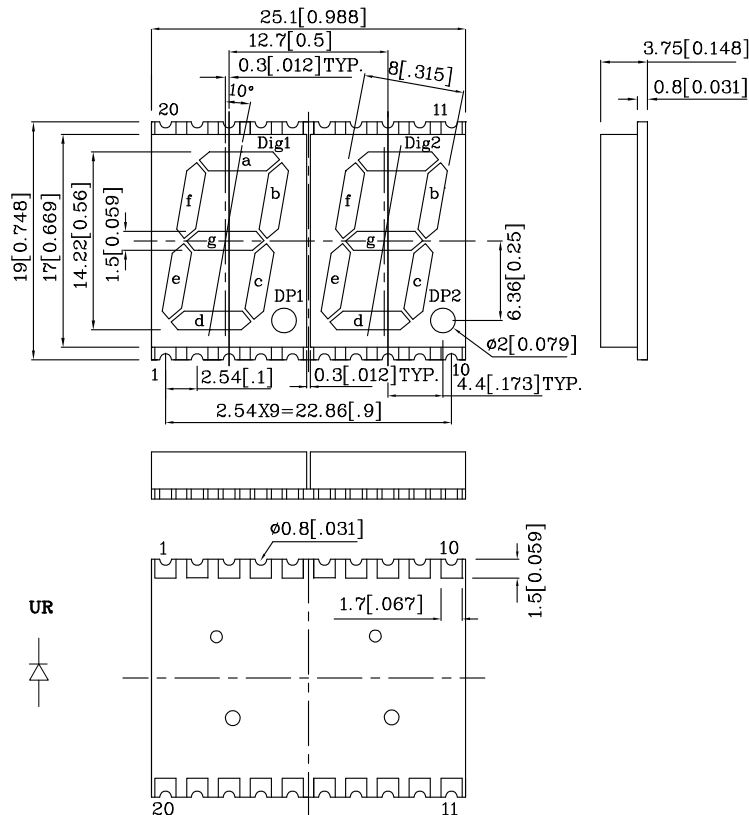


- 0.56 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- GRAY FACE,WHITE SEGMENT.
- PACKAGE : 200PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.



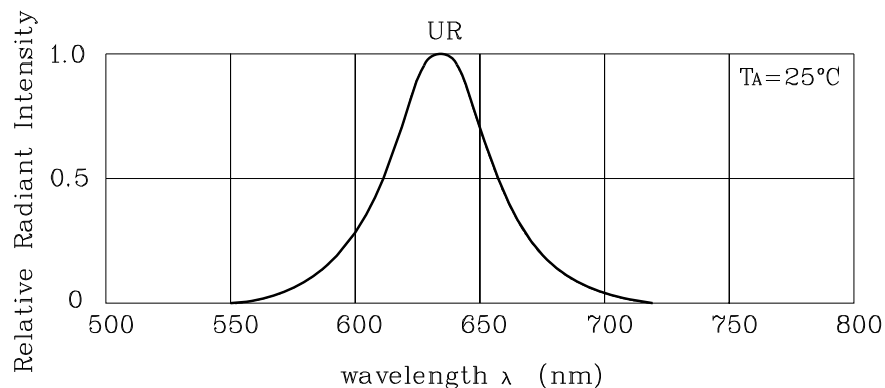
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

| Absolute Maximum Ratings<br>(TA=25°C)                          |                  | UR<br>(GaAsP/GaP) | Unit |
|----------------------------------------------------------------|------------------|-------------------|------|
| Reverse Voltage                                                | V <sub>R</sub>   | 5                 | V    |
| Forward Current                                                | I <sub>F</sub>   | 30                | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | i <sub>FS</sub>  | 160               | mA   |
| Power Dissipation                                              | P <sub>T</sub>   | 75                | mW   |
| Operating Temperature                                          | T <sub>A</sub>   | -40 ~ +85         | °C   |
| Storage Temperature                                            | T <sub>stg</sub> | -40 ~ +85         |      |



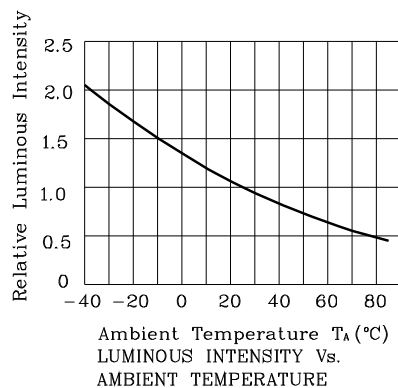
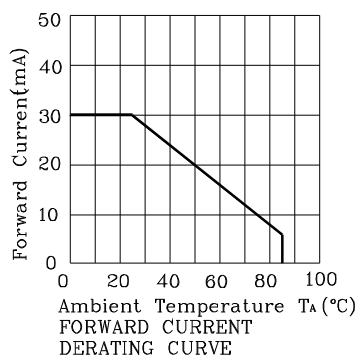
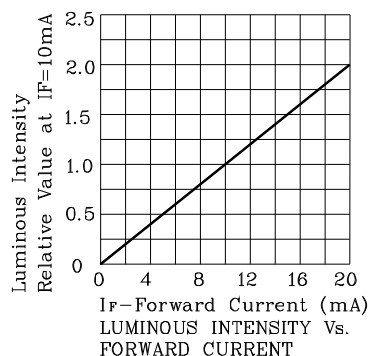
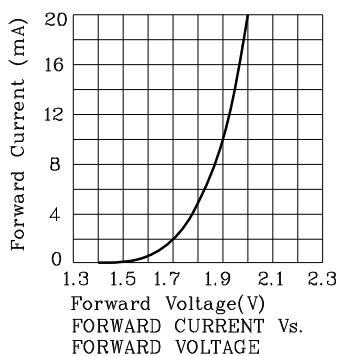
| Operating Characteristics<br>(T <sub>A</sub> =25°C)                          |                | UR<br>(GaAsP/GaP) | Unit |
|------------------------------------------------------------------------------|----------------|-------------------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =10mA)                             | V <sub>F</sub> | 1.9               | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =10mA)                             | V <sub>F</sub> | 2.5               | V    |
| Reverse Current (Max.)<br>(V <sub>R</sub> =5V)                               | I <sub>R</sub> | 10                | uA   |
| Wavelength of Peak<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)              | λ P            | 627               | nm   |
| Wavelength of Dominant<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)          | λ D            | 625               | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA) | Δλ             | 45                | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =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. |                         |                                  |
| ZFUR14C2                      | Red            | GaAsP/GaP             | 1200                                | 7390 | 627                     | Common Cathode. Rt. Hand Decimal |
|                               |                |                       |                                     |      |                         |                                  |
| Published Date : FEB 29, 2008 |                | Drawing No : SDSA5386 |                                     |      | V4                      | Checked : Shin Chi P.1/4         |



RELATIVE INTENSITY Vs. WAVELENGTH

❖ UR



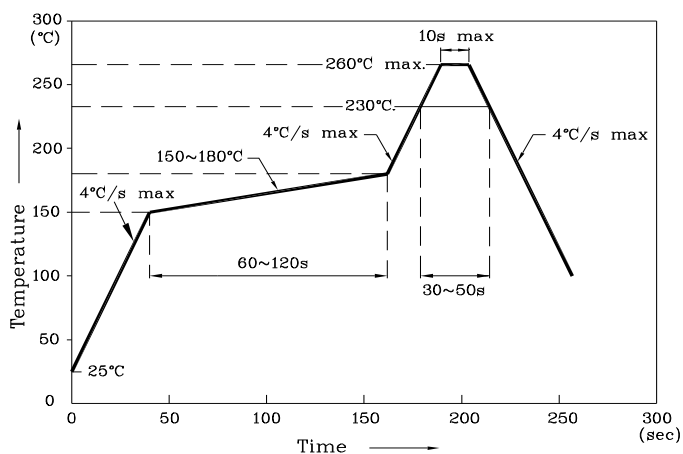
Remarks:

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.

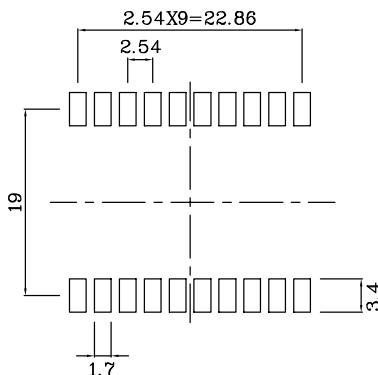
Reflow Soldering Profile For Lead-free SMT Process.



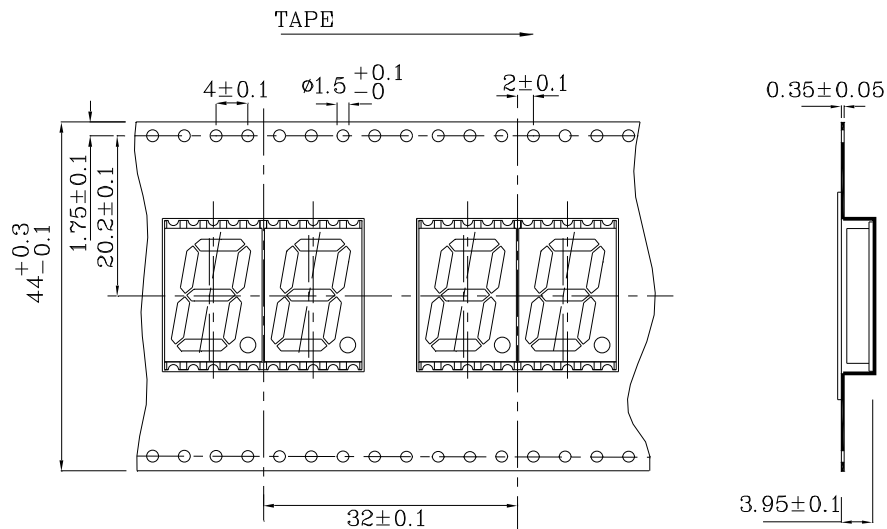
Notes:

- 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)

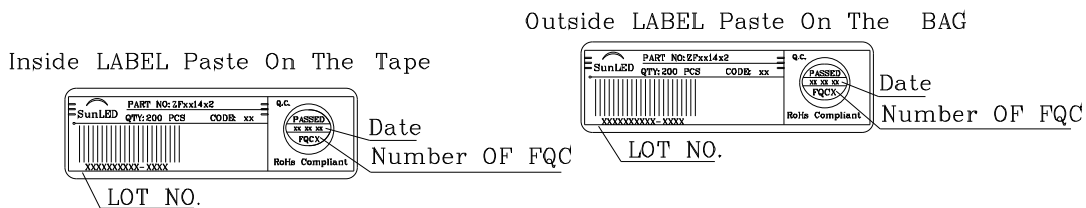
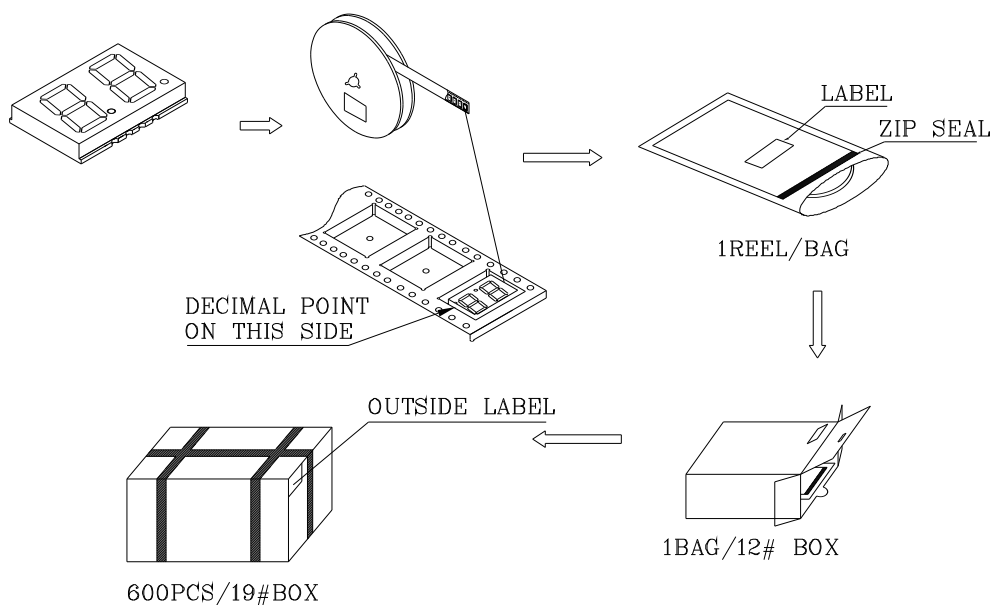


❖ Tape Specification (Units : mm)



**PACKING & LABEL SPECIFICATIONS**

**ZFUR14C2**



Outside LABEL Paste On The 19#Box

Outside LABEL Paste On The 12#Box

