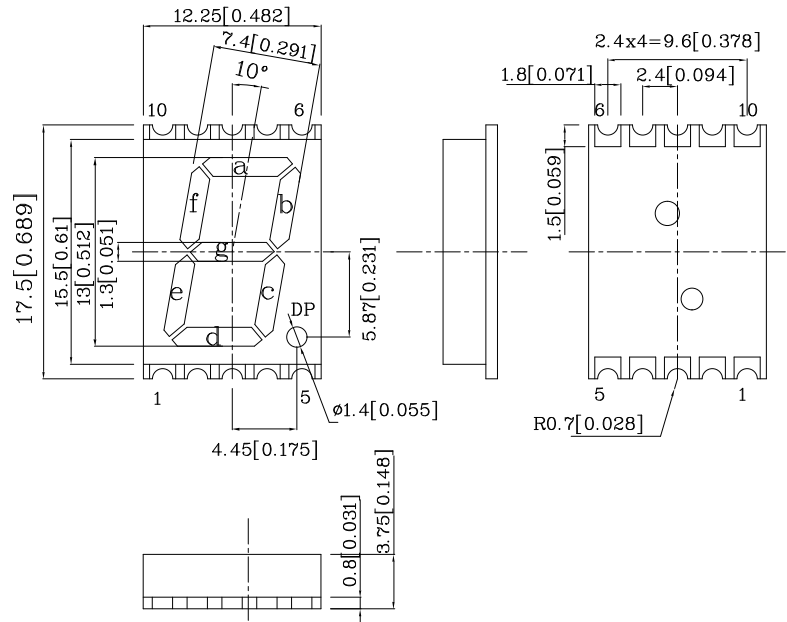
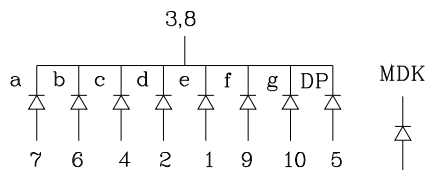


PRELIMINARY SPEC

Features

- 0.51 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- GRAY FACE, WHITE SEGMENT.
- PACKAGE: 400PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.



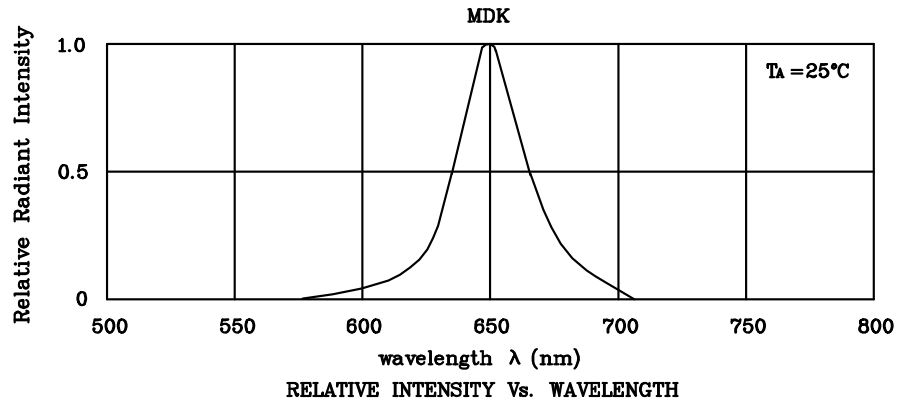
Notes:

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.

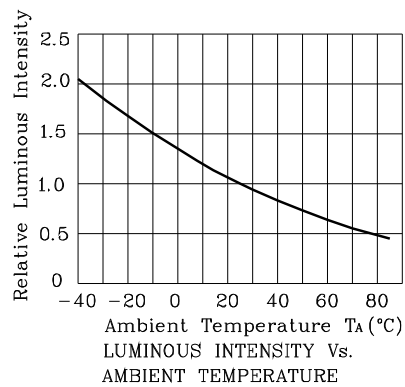
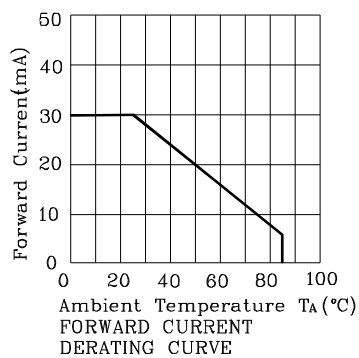
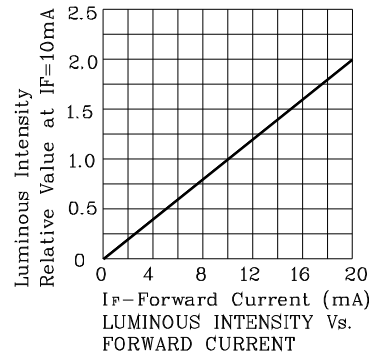
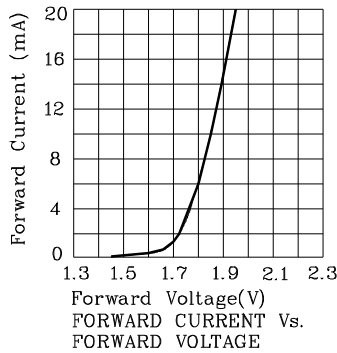
| Absolute Maximum Ratings (TA=25°C) | | MDK (InGaAlP) | Unit |
|--|------------------|------------------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | I _F | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i _{FS} | 185 | mA |
| Power Dissipation | P _T | 75 | mW |
| Operating Temperature | T _A | -40 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | |

| Operating Characteristics (TA=25°C) | | MDK (InGaAlP) | Unit |
|--|----------------|------------------|------|
| Forward Voltage (Typ.) (I _F =10mA) | V _F | 1.85 | 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 | 650 | nm |
| Wavelength Of Dominant Emission (Typ.) (I _F =10mA) | λ D | 635 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA) | Δλ | 28 | nm |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | C | 35 | pF |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity (I _F =10mA) ucd | | Wavelength nm λ P | Description |
|-------------|----------------|-------------------|---|-------|-------------------------|----------------------------------|
| | | | min. | typ. | | |
| XZFMDK129C | Red | InGaAlP | 12000 | 41040 | 650 | Common Cathode, Rt. Hand Decimal |



❖ MDK



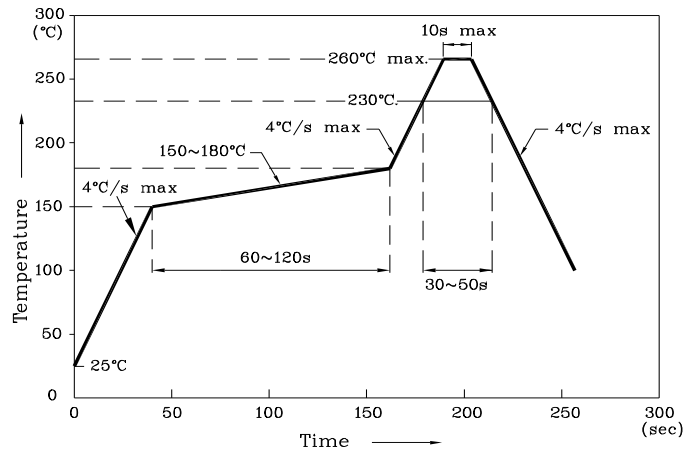
Remarks:

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.

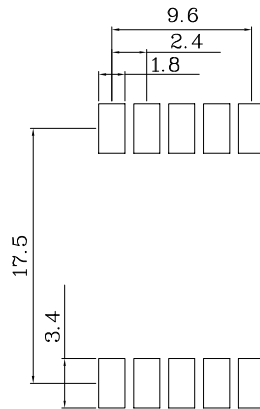
Reflow Soldering Profile For Lead-free SMT Process.



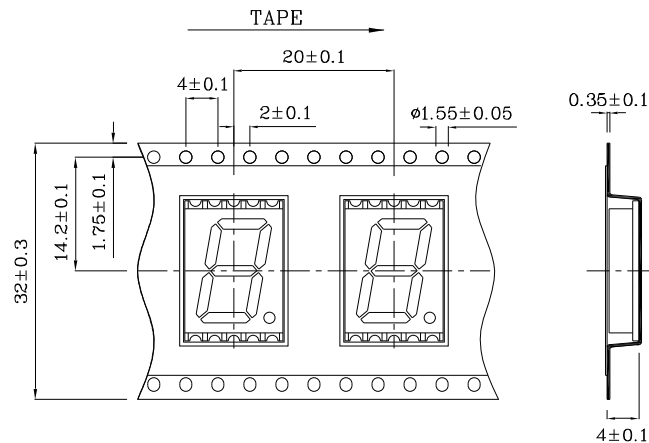
Notes:

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.

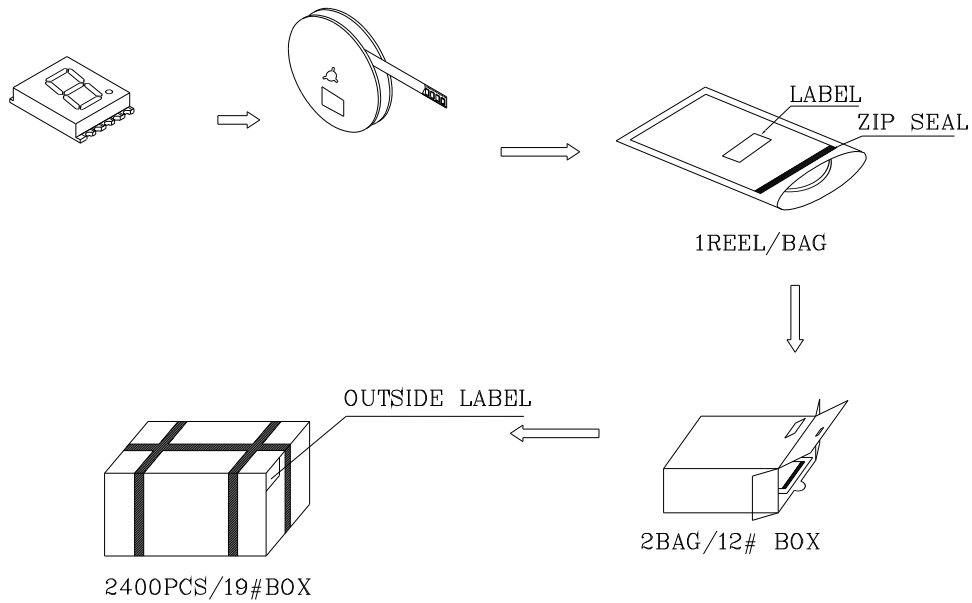
❖ Recommended Soldering Pattern (Units : mm;Tolerance:± 0.15)



❖ Tape Specification (Units : mm)

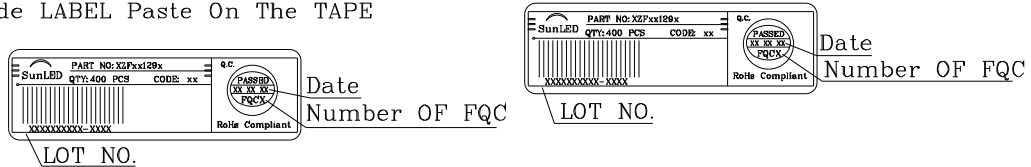


PACKING & LABEL SPECIFICATIONS XZFMDK129C



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

