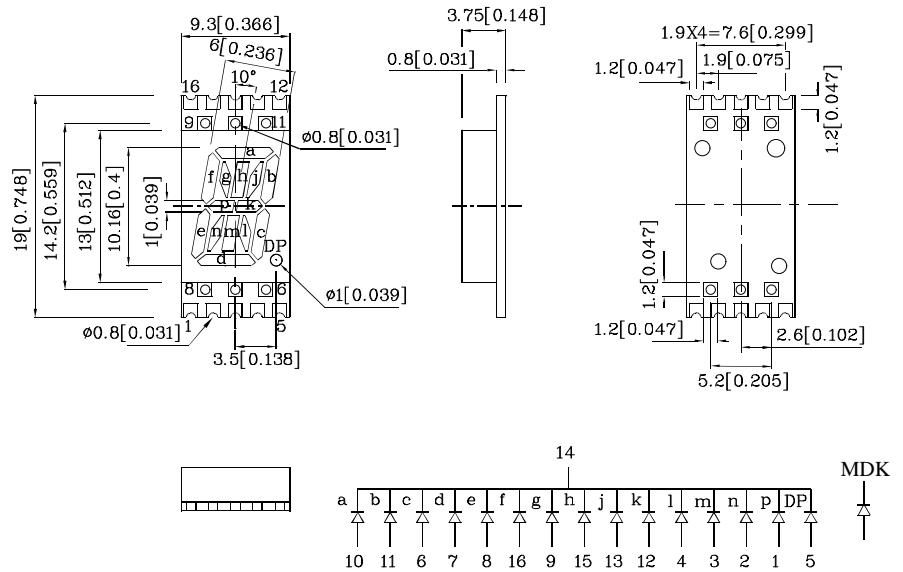


Features

- 0.4 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Standard Package: 400pcs/ Reel
- MSL (Moisture Sensitivity Level): 2a
- 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.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

| Absolute Maximum Ratings (T _A =25°C) | | MDK (AlGaInP) | 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 _D | 75 | mW |
| Operating Temperature | T _A | -40 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | |

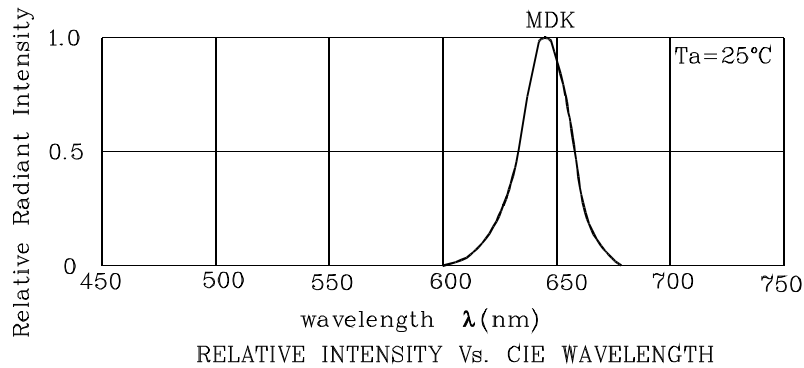
| Operating Characteristics (T _A =25°C) | | MDK (AlGaInP) | Unit |
|--|----------------|------------------|------|
| Forward Voltage (Typ.) (I _F =10mA) | V _F | 1.85 | V |
| Forward Voltage (Max.) (I _F =10mA) | V _F | 2.5 | V |
| Reverse Current (Max.) (V _R =5V) | I _R | 10 | uA |
| Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA) | λ _P | 645* | nm |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA) | λ _D | 630* | 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 CIE127-2007* (I _F =10mA) ucd | | Wavelength CIE127-2007* nm λ _P | Description |
|----------------|-------------------|----------------------|---|----------------|--|-------------------------------------|
| | | | min. | typ. | | |
| XZFAMDK10C | Red | AlGaInP | 14000 3600* | 35990 8290* | 645* | Common Cathode, Rt.Hand Decimal. |

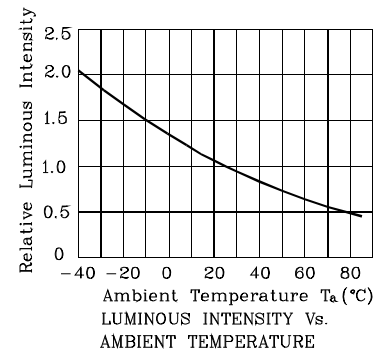
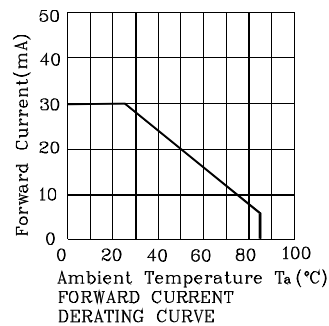
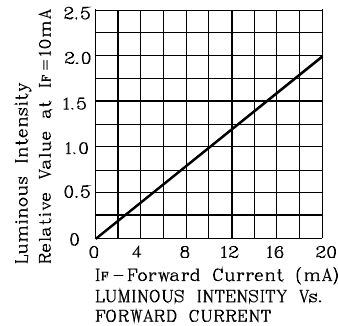
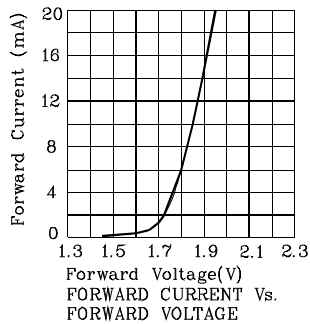
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Jan 14,2014

XDSB1629 V3-X Layout: Maggie L.

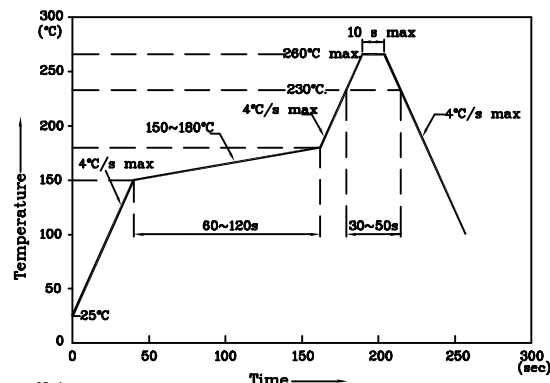


❖ MDK



LED is recommended for reflow soldering and soldering profile is shown below.

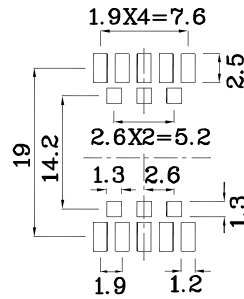
Reflow Soldering Profile for SMD Products (Pb-Free Components)



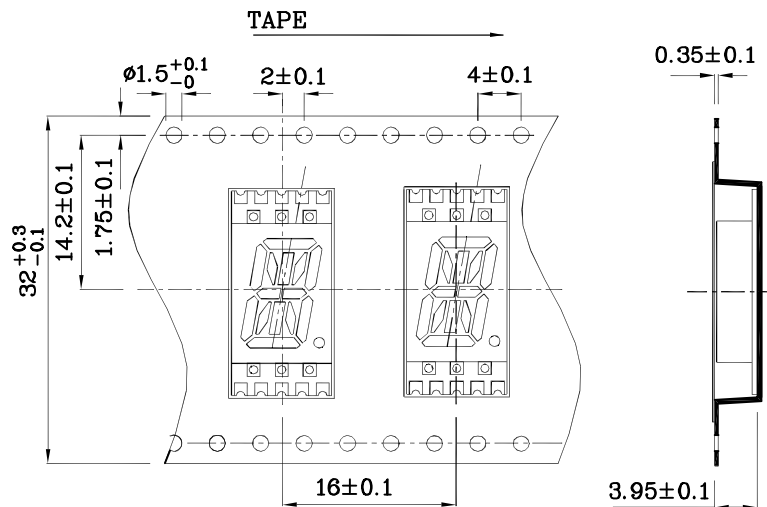
Notes:

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

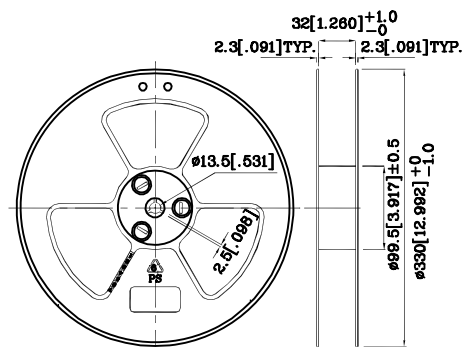
❖ **Recommended Soldering Pattern (Units : mm; Tolerance: ±0.15)**



❖ Tape Specification (Units : mm)



❖ Reel Dimension



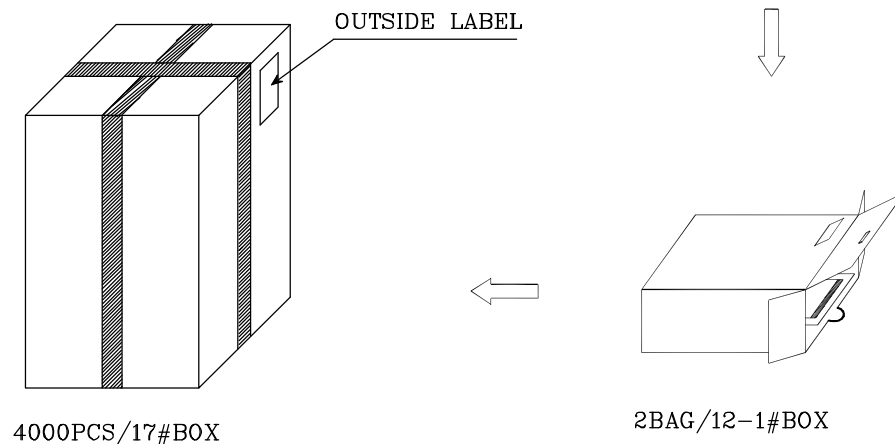
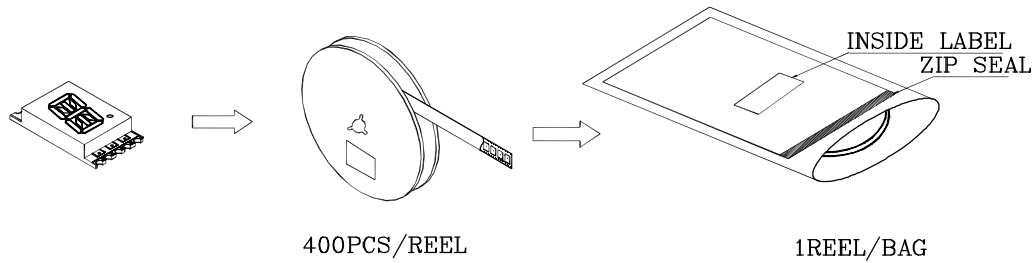
Remarks:

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:

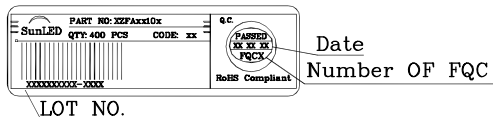
1. Wavelength: $\pm 1\text{nm}$
2. Luminous intensity / luminous flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

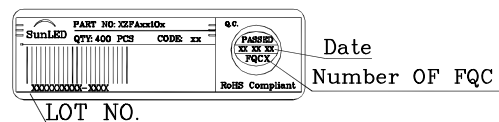
PACKING & LABEL SPECIFICATIONS



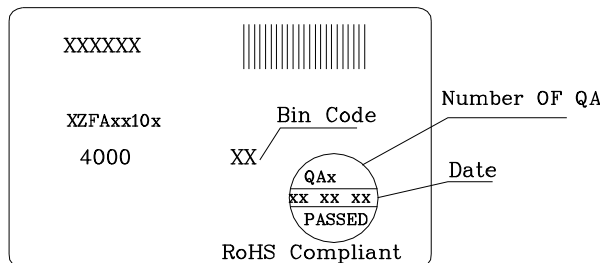
Inside Label On tape



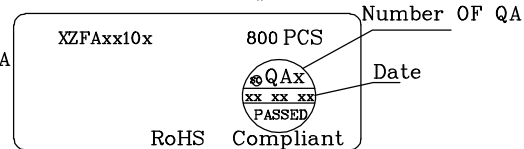
Outside Label On BAG



Outside Label On 19#Box



Outside Label On 12#Box



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