

art manisci. Ababibili iii

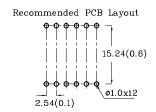
14.22 mm (0.56") Four Digit Numeric Display

### **Features**

- Low power consumption
- ullet Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- RoHS Compliant

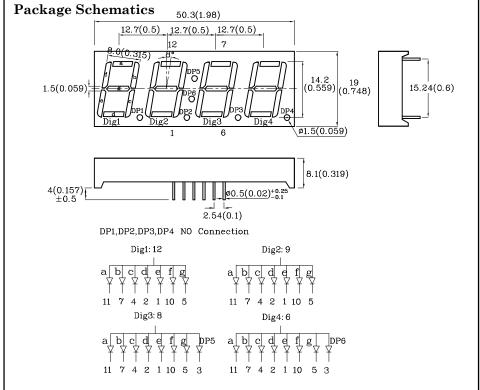








# ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



### Notes.

1. All dimensions are in millimeters (inches), Tolerance is  $\pm 0.25 (0.01")$  unless otherwise noted.

2. Specifications are subject to change without notice.

| Absolute Maximum Ratings $(T_A=25^{\circ}C)$                   | Red<br>(AlGaInP)      | Unit      |    |  |
|--|-----------------------|-----------|----|--|
| Reverse Voltage  | $V_{\rm R}$           | 5         | V  |  |
| Forward Current  | $I_{\mathrm{F}}$      | 30        | mA |  |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | $i_{\rm FS}$          | 185       | mA |  |
| Power Dissipation  | PD                    | 75        | mW |  |
| Operating Temperature  | $T_{A}$               | -40 ~ +85 | °C |  |
| Storage Temperature  | Tstg                  | -40 ~ +85 |    |  |
| Lead Solder Temperature<br>[2mm Below Package Base]            | 260°C For 3-5 Seconds |           |    |  |

| A Relative Humidity between 40% and 60% is recommended in          |
|--|
| ESD-protected work areas to reduce static build up during assembly |
| process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)            |

| Operating Characteristics (T <sub>A</sub> =25°C)                                 | Red<br>(AlGaInP) | Unit |    |
|--|------------------|------|----|
| Forward Voltage (Typ.) (I <sub>F</sub> =10mA)                                    | 1.85             | V    |    |
| Forward Voltage (Max.) (I <sub>F</sub> =10mA)                                    | $V_{\mathrm{F}}$ | 2.35 | V  |
| Reverse Current (Max.) (V <sub>R</sub> =5V)                                      | $I_R$            | 10   | μA |
| Wavelength of Peak<br>Emission CIE127-2007* (Typ.)<br>(I <sub>F</sub> =10mA)     | λΡ               | 645* | nm |
| Wavelength of Dominant<br>Emission CIE127-2007* (Typ.)<br>(I <sub>F</sub> =10mA) | λD               | 630* | nm |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA)     | Δλ               | 28   | nm |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                               | C                | 35   | pF |

| Part<br>Number | Emitting<br>Color | Emitting<br>Material | Luminous Intensity CIE127-2007* $(I_F=10\text{mA})$ ucd |                 | Wavelength<br>CIE127-2007*<br>nm λP | Description  |
|----------------|-------------------|----------------------|---|-----------------|-------------------------------------|--------------|
|                |                   |                      | min.  | typ.            |                                     |              |
| XDMDK14A4-1A   | Red               | AlGaInP              | 31000<br>14000*   | 71990<br>23990* | 645*                                | Common Anode |

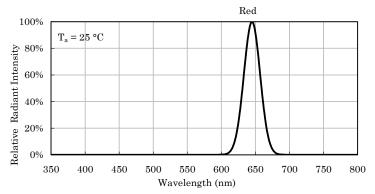
<sup>\*</sup>Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Mar 31,2022

14.22 mm (0.56") Four Digit Numeric Display

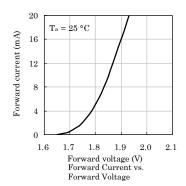


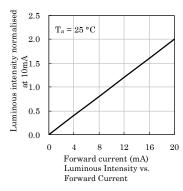
www.SunLEDusa.com

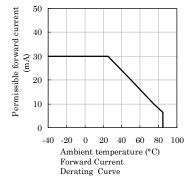


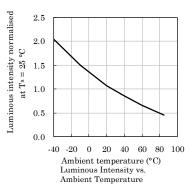
Relative Intensity Vs. CIE Wavelength

## **❖** Red

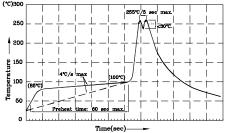








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- 2.Peak wave soldering temperature between 245°C ~ 255°C for 3 sec max).
  3.Do not apply stress to the epoxy resin while the temperature is al 4.Fixtures should not incur stress on the component when mounting during soldering process.
  5.3AC 305 solder alloy is recommended.
  6.No more than one wave soldering pass.
  7.During wave soldering, the PCB top-surface temperature should be kept below 105°C.

# 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:

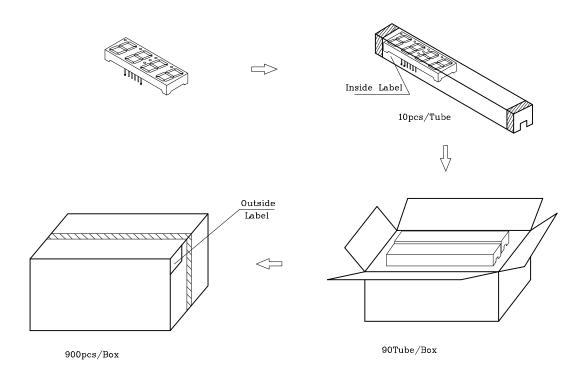
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.





# PACKING & LABEL SPECIFICATIONS





### TERMS OF USE

- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
- 2. Contents within this document are subject to improvement and enhancement changes without notice.
- 3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
- 5. The contents within this document may not be altered without prior consent by SunLED.
- 6. When any special process such as potting is required for LED assembly, please consult with SunLED representative before proceeding.
- 7. Additional technical notes are available at https://www.SunLEDusa.com/TechnicalNotes.asp