

**20.32mm (0.8") SINGLE DIGIT  
NUMERIC DISPLAY**

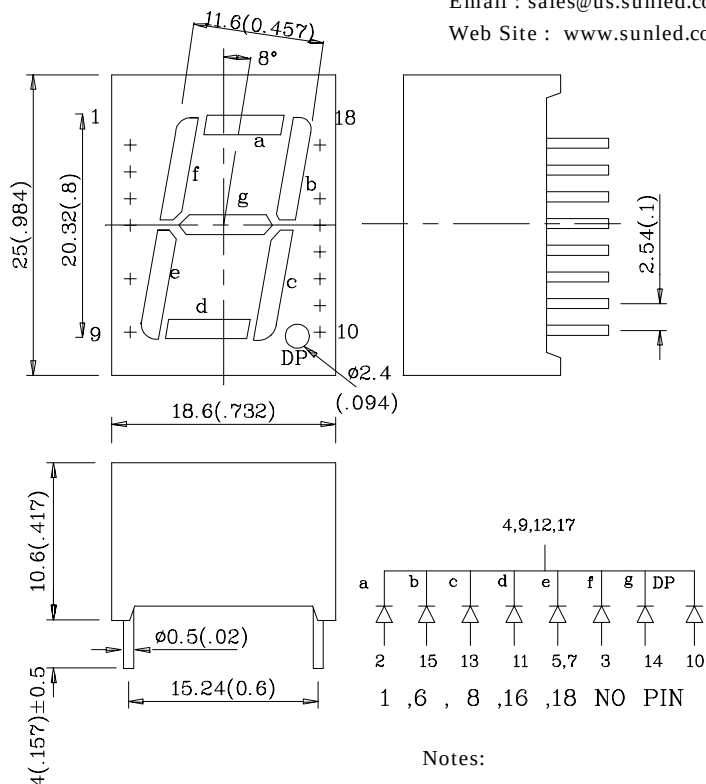


**SUNLED**

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XDUY20C-1



**Notes:**

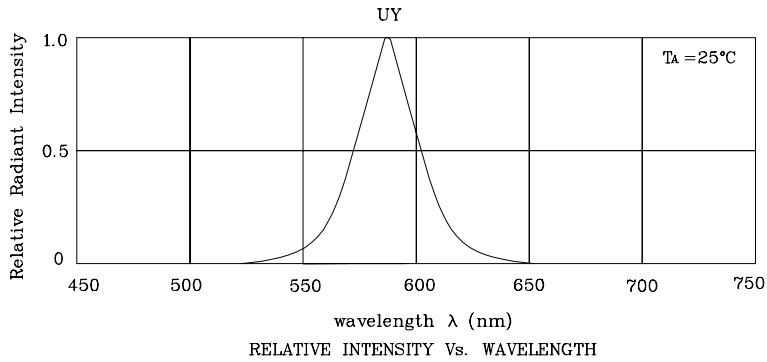
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.

| Absolute maximum ratings<br>(T <sub>A</sub> =25°C)            |                     | UY<br>(GaAsP/GaP) | Unit |
|---------------------------------------------------------------|---------------------|-------------------|------|
| Reverse voltage                                               | V <sub>R</sub>      | 5                 | V    |
| Forward current                                               | I <sub>F</sub>      | 30                | mA   |
| Forward current (peak)<br>1/10Duty cycle<br>0.1ms pulse width | i <sub>FS</sub>     | 140               | mA   |
| Power dissipation                                             | P <sub>T</sub>      | 105               | mW   |
| Operating temperature                                         | T <sub>A</sub>      | -40 ~ +85         | °C   |
| Storage temperature                                           | T <sub>stg</sub>    |                   |      |
| Lead solder temperature<br>[2mm below package base]           | 260°C For 5 Seconds |                   |      |

| Operating Characteristics<br>( $T_A=25^\circ\text{C}$ )     |                  | UY<br>(GaAsP/GaP) | Unit          |
|-------------------------------------------------------------|------------------|-------------------|---------------|
| Forward voltage (typ.)<br>( $I_F=10\text{mA}$ )             | $V_F$            | 1.95              | V             |
| Forward voltage (max.)<br>( $I_F=10\text{mA}$ )             | $V_F$            | 2.5               | V             |
| Reverse current<br>( $V_R=5\text{V}$ )                      | $I_R$            | 10                | $\mu\text{A}$ |
| Wavelength at peak<br>emission<br>( $I_F=10\text{mA}$ )     | $\lambda_{peak}$ | 590               | nm            |
| Wavelength at Dominate<br>emission<br>( $I_F=10\text{mA}$ ) | $\lambda_D$      | 588               | nm            |
| Spectral Line half-width<br>( $I_F=10\text{mA}$ )           | $\Delta\lambda$  | 35                | nm            |
| Capacitance<br>( $V_F=0\text{V}$ , $f=1\text{MHz}$ )        | $C$              | 20                | pF            |

| Part<br>Number | Emitting<br>Color | Emitting<br>Material | Luminous<br>Intensity<br>( $I_F=10\text{mA}$ )<br>ucd<br>min.      typ. | Wave-<br>length<br>nm<br>$\lambda_P$ | Description                     |
|----------------|-------------------|----------------------|-------------------------------------------------------------------------|--------------------------------------|---------------------------------|
| XDUY20C-1      | Yellow            | GaAsP/GaP            | 1900      4690                                                          | 590                                  | Common Cathode,Rt.Hand Decimal. |

**XDUY20C-1**



**◆UY**

