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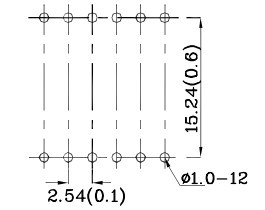
**Part Number: XDUY14C4-A**

14.22mm(0.56") FOUR DIGIT NUMERIC DISPLAY

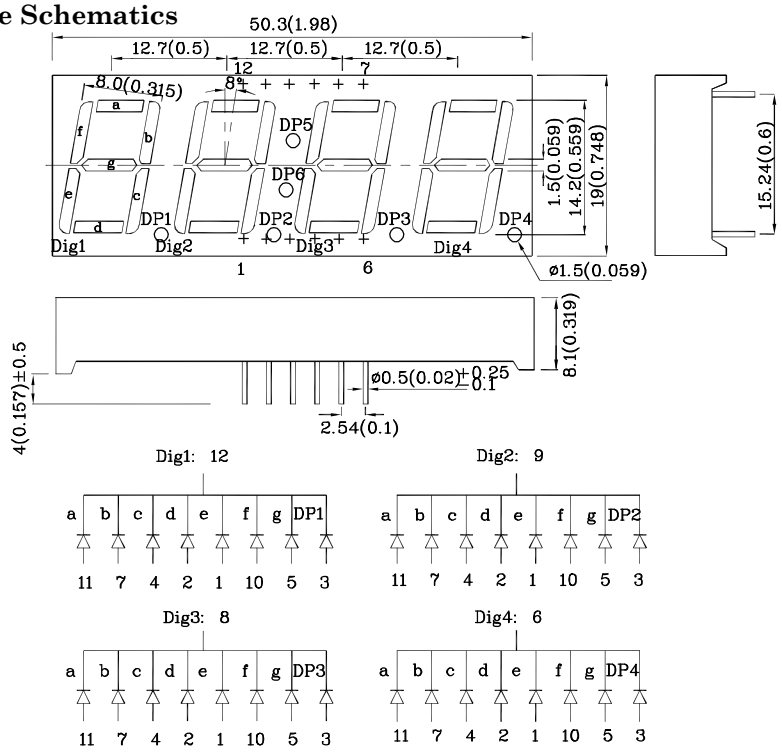
## Features

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

RECOMMENDED PCB LAYOUT




## Package Schematics



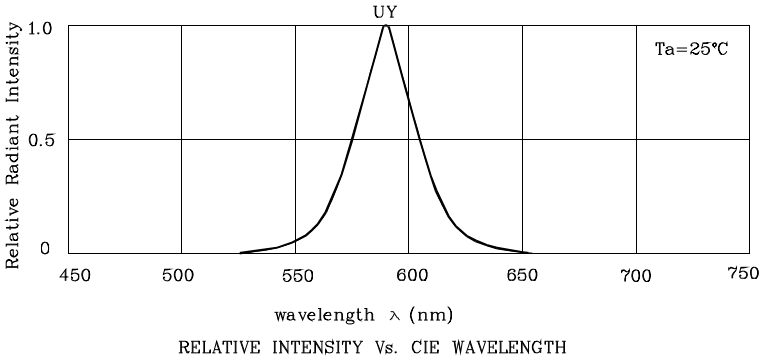

Notes:
1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
2. Specifications are subject to change without notice.

| **Absolute Maximum Ratings ($T_A$=25°C)** | | **UY (GaAsP/GaP)** | **Unit** |
|---|---|---|---|
| Reverse Voltage | $V_R$ | 5 | V |
| Forward Current | $I_F$ | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | $i_{FS}$ | 140 | mA |
| Power Dissipation | $P_D$ | 75 | mW |
| Operating Temperature | $T_A$ | -40 ~ +85 | °C |
| Storage Temperature | Tstg | -40 ~ +85 | |
| Lead Solder Temperature [2mm Below Package Base] | 260°C For 3-5 Seconds | | |

| **Operating Characteristics ($T_A$=25°C)** | | **UY (GaAsP/GaP)** | **Unit** |
|---|---|---|---|
| Forward Voltage (Typ.) ($I_F$=10mA) | $V_F$ | 1.95 | 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) | λP | 590* | nm |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) ($I_F$=10mA) | λD | 588* | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) ($I_F$=10mA) | △λ | 35 | nm |
| Capacitance (Typ.) ($V_F$=0V, f=1MHz) | C | 20 | pF |

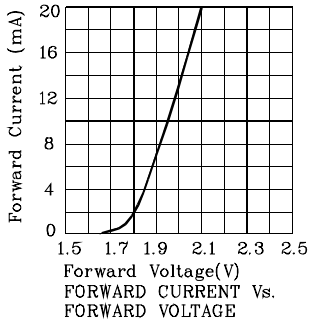
| Part Number | Emitting Color | Emitting Material | Luminous Intensity CIE127-2007* ($I_F$=10mA) ucd | | Wavelength CIE127-2007* nm λP | Description |
|---|---|---|---|---|---|---|
| | | | min. | typ. | | |
| XDUY14C4-A | Yellow | GaAsP/GaP | 2200<br>900* | 6490<br>2290* | 590* | Common Cathode, Rt.Hand Decimal. |

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

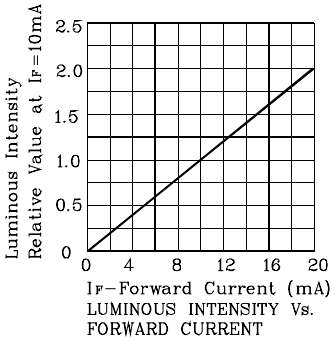



RELATIVE INTENSITY Vs. CIE WAVELENGTH

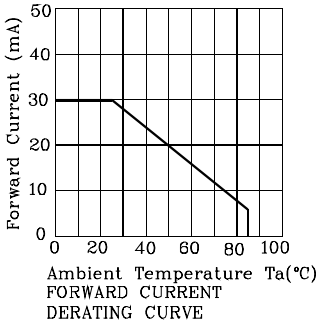
## ❖ UY



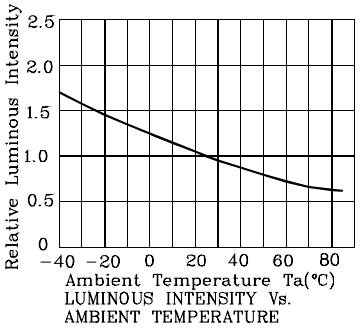

FORWARD CURRENT Vs.
FORWARD VOLTAGE




LUMINOUS INTENSITY Vs.
FORWARD CURRENT

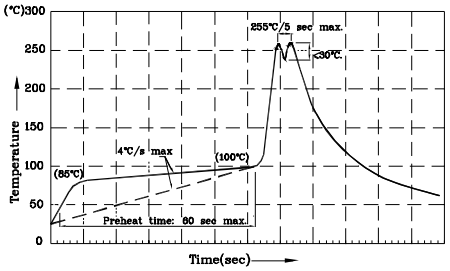



FORWARD CURRENT
DERATING CURVE




LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

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




Notes:
1. Recommend pre-heat temperature of 105℃ or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260℃
2. Peak wave soldering temperature between 245℃ ~ 255℃ for 3 sec (5 sec max).
3. Do not apply stress to the epoxy resin while the temperature is above 85℃.
4. Fixtures should not incur stress on the component when mounting and during soldering process.
5. SAC 305 solder alloy is recommended.
6. No more than one wave soldering pass.

Remarks:

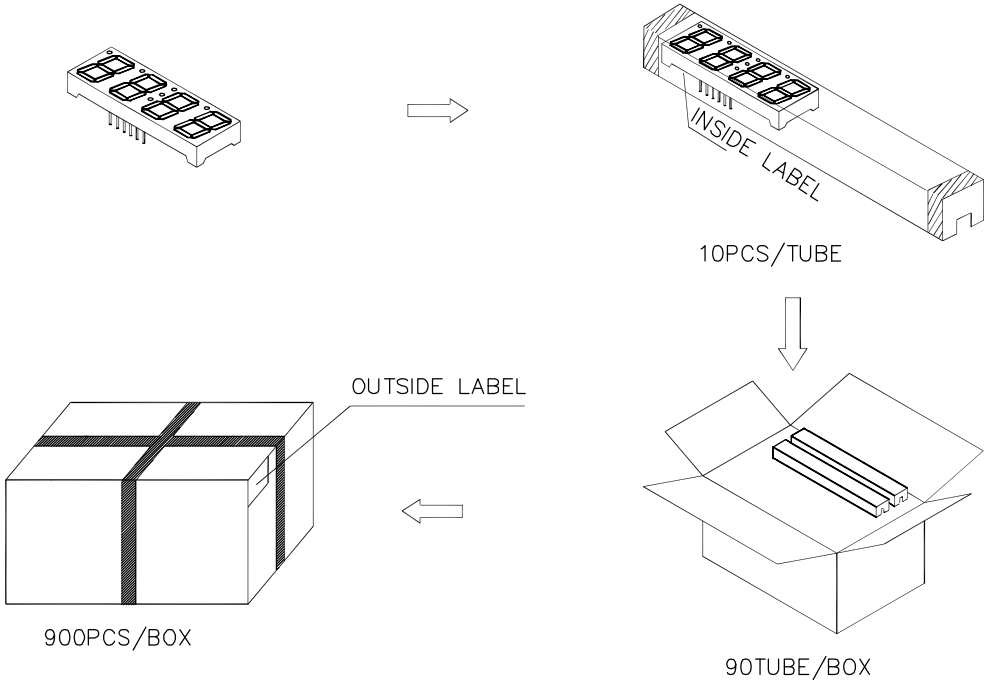
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength),

the typical accuracy of the sorting process is as follows:

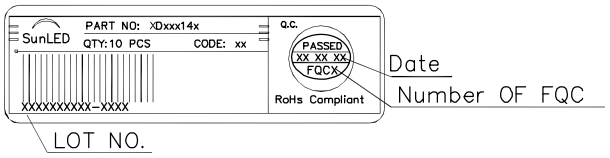
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

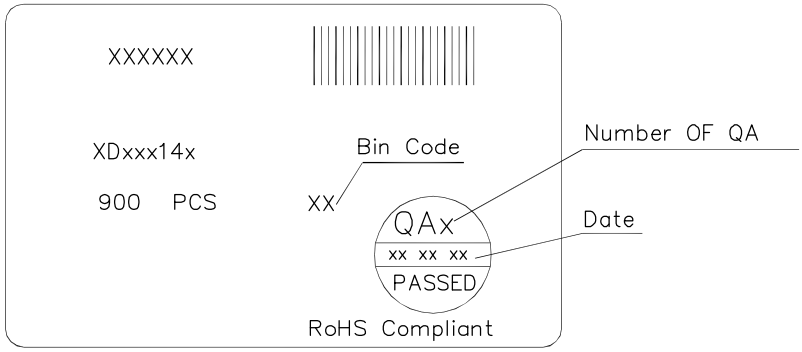
## PACKING & LABEL SPECIFICATIONS




Inside Label On IC-tube




Outside Label On Box

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