

# Part Number: XAUR20C

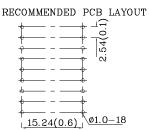
 $20.32 \mathrm{mm} \; (0.8") \; 16 \; \mathrm{SEGMENT} \; \mathrm{SINGLE} \; \mathrm{DIGIT}$   $\mathrm{ALPHANUMERIC} \; \mathrm{DISPLAY}$ 

# **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







# Package Schematics 20(0.787) 10.9(0.429) 18 10.9(0.429) 10.9(0.42

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 <sub>A</sub> =25°C)                |                       | UR<br>(GaAsP/GaP) | 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 | ifs                   | 160               | mA   |  |
| Power Dissipation  | $P_D$                 | 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 |                   |      |  |

| Operating Characteristics (T <sub>A</sub> =25°C)                             |                     | UR<br>(GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =10mA)                             | $V_{\mathrm{F}}$    | 1.9               | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =10mA)                             | $V_{\mathrm{F}}$    | 2.5               | V    |
| Reverse Current (Max.) $(V_R=5V)$  | $I_{R}$             | 10                | uA   |
| Wavelength of Peak<br>Emission CIE127-2007* (Typ.)<br>(I <sub>F</sub> =10mA) | λΡ                  | 627*              | nm   |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=10\text{mA})$      | λD                  | 617*              | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA) | $\triangle \lambda$ | 45                | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                           | С                   | 15                | pF   |

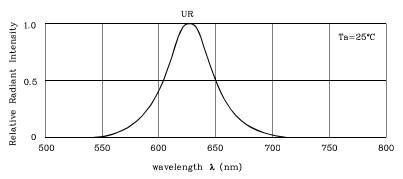
| Part<br>Number | Emitting<br>Color | Emitting<br>Material | Luminous Intensity<br>CIE127-2007*<br>(I <sub>F</sub> =10mA) ucd |               | Wavelength<br>CIE127-2007*<br>nm λP | Description                          |
|----------------|-------------------|----------------------|--|---------------|-------------------------------------|--------------------------------------|
|                |                   |                      | min.   | typ.          |                                     |                                      |
| XAUR20C        | Red               | GaAsP/GaP            | 3600<br>900*   | 7690<br>2090* | 627*                                | Common Cathode,<br>Rt. Hand Decimal. |

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

Feb 26.2014

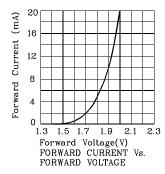
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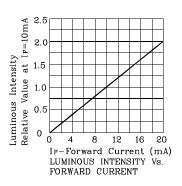


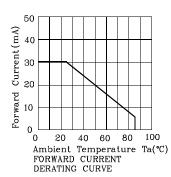


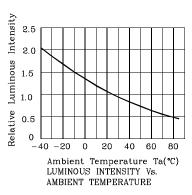
RELATIVE INTENSITY Vs. CIE WAVELENGTH

# ❖ UR

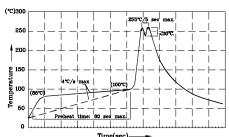








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- nmend pre-heat temperature of 105°C or less (as measured with a noccouple attached to the LED pins) prior to immersion in the solder with a maximum solder bath temperature of 250°C wave soldering temperature between 245°C  $\sim$  255°C for 3 sec (5 sec
- 2.Peak wave soldering temperature oetwermax).
  3.Do not apply stress to the epoxy resin (-Pixtures should not incur stress on the 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.



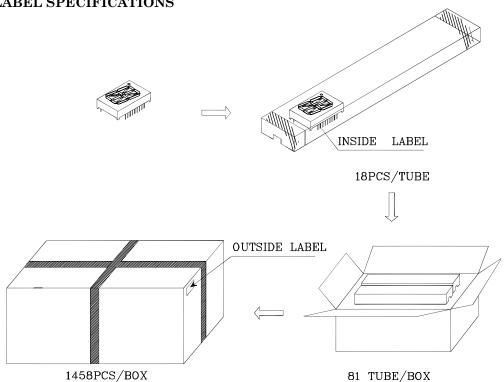
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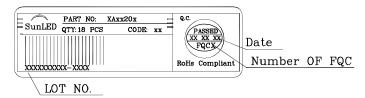
20.32mm (0.8") 16 SEGMENT SINGLE DIGIT ALPHANUMERIC DISPLAY



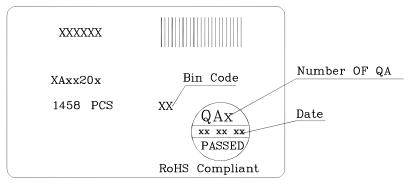
# PACKING & LABEL SPECIFICATIONS



# Inside Label On IC-tube



# Outside Label On Box



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