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# Part Number: XAUR20C

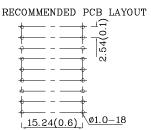
 $20.32 \mathrm{mm} \; (0.8") \; 16 \; \mathrm{SEGMENT} \; \mathrm{SINGLE} \; \mathrm{DIGIT}$   $\mathrm{ALPHANUMERIC} \; \mathrm{DISPLAY}$ 

### **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) 8.5(0.335) 4(0.157)±0.5 10.9(0.429) 18 18 18 10.9(0.429) 10.9(0.429) 10.9(0.429) 10.9(0.02)+0.25 10.9(0.02)+0.25 11.5.24(0.6)

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 <sub>A</sub> =25°C)		UR (GaAsP/GaP)	Unit	
Reverse Voltage	$V_{\mathrm{R}}$	5	V	
Forward Current	$I_{\mathrm{F}}$	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 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 [2mm Below Package Base]	260°C For 3-5 Seconds			

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

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

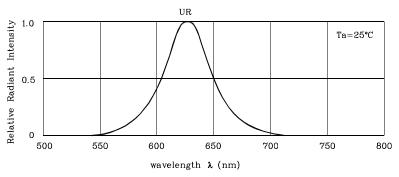
<sup>\*</sup>Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Feb 26.2014

XDSA1130 V7-X Layout: Maggie L.

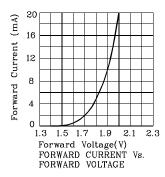
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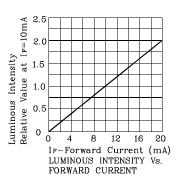


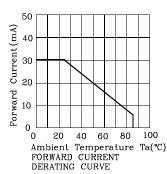


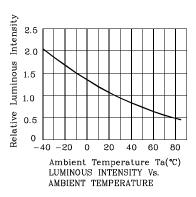
RELATIVE INTENSITY Vs. CIE WAVELENGTH

### ❖ UR

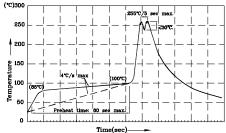








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- 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.



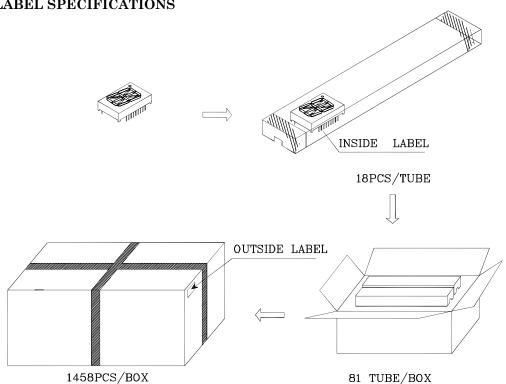
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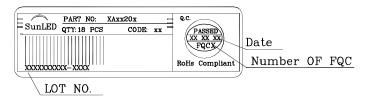
20.32mm (0.8") 16 SEGMENT SINGLE DIGIT ALPHANUMERIC DISPLAY



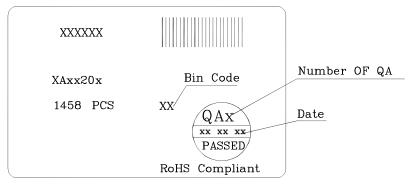
# PACKING & LABEL SPECIFICATIONS



# Inside Label On IC-tube



### Outside Label On Box



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