

# **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

**SunLED** XGURX20D

For any questions, you can email us directly: sales@integrated-circuit.com



# **Distributor of SunLED: Excellent Integrated System Limited**

Datasheet of XGURX20D - BAR GRAPH ARRAY 20-SEG RED

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



### Part Number: XGURX20D

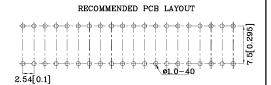
20 SEGMENTS BAR GRAPH ARRAY

#### **Features**

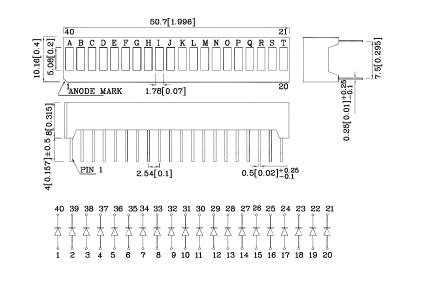
- Robust package
- Uniform light disbursement
- Ideal for backlighting logos or icons
- Excellent for flush mounting
- Standard configuration: Gray face w/ white segments
- RoHS Compliant







## Package Schematics



#### Notes:

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

Wavelength

2. Specifications are subject to change without notice.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)	UR (GaAsP/GaP)	Unit		
Reverse Voltage	$V_{\rm R}$	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)	$V_{\mathrm{F}}$	V <sub>F</sub> 1.9	
Forward Voltage (Max.) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	2.5	V
Reverse Current (Max.) $(V_R=5V)$	$I_{\mathrm{R}}$	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λΡ	627*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	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	CIE127-2007* (I <sub>F</sub> =10mA) ucd		Material CIE127-2007*		CIE127-2007* nm λP	Description
			min.	typ.				
XGURX20D	Red	GaAsP/GaP	3600 900*	8990 1990*	627*	20 Segments Bar graph-Display		

Luminous Intensity

XDSA1920 V8-X Layout: Maggie L.

<sup>\*</sup>Luminous intensity value and wavelength are in accordance with CIE127-2007 Mar 05,2014



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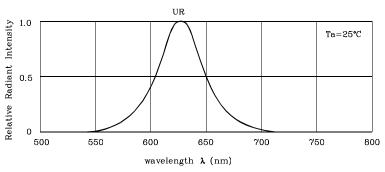
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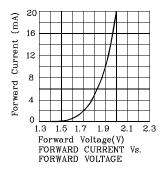
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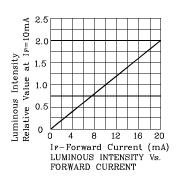


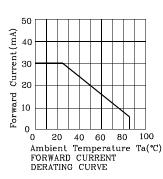


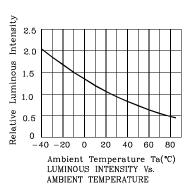
RELATIVE INTENSITY Vs. CIE WAVELENGTH

#### **♦** UR

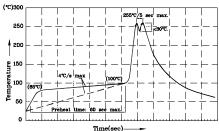








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- max).
  3.Do not apply stress to the epoxy resin while the temperature is above
  4.Fixtures should not incur stress on the component when mounting and
  during soldering process.
  5.3AC 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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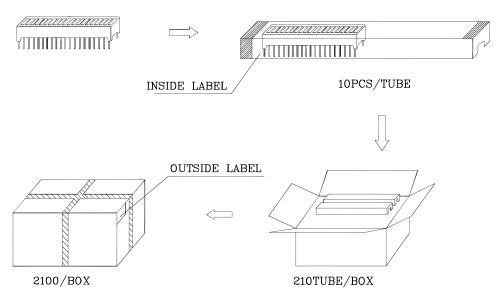
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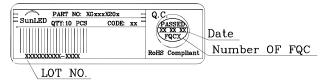
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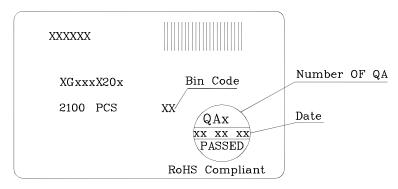
#### PACKING & LABEL SPECIFICATIONS



#### Inside Label On IC-tube



#### Outside Label On Box



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Mar 05,2014

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