

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Part Number: XGURX20D

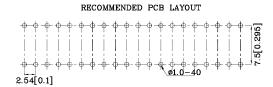
 $20 \; {
m SEGMENTS} \; {
m BAR} \; {
m GRAPH} \; {
m ARRAY}$

Features

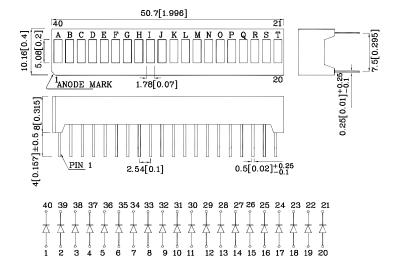
- Robust package
- ullet Uniform light disbursement
- \bullet Ideal for backlighting logos or icons
- Excellent for flush mounting
- \bullet Standard configuration: Gray face w/ white segments
- RoHS Compliant







Package Schematics



Notes:

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

2. Specifications are subject to change without notice.

	UR (GaAsP/GaP)	Unit		
Reverse Voltage	$V_{\rm R}$	5	V	
Forward Current	I_{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 _A =25°C)		UR (GaAsP/GaP)	Unit
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	1.9	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)	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 _F =10mA)	$\triangle \lambda$	45	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	pF

Part Number	Emitting Color	Emitting Material	Luminous CIE127- (I _F =10m	2007*	Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XGURX20D	Red	GaAsP/GaP	3600 900*	8990 1990*	627*	20 Segments Bar graph-Display

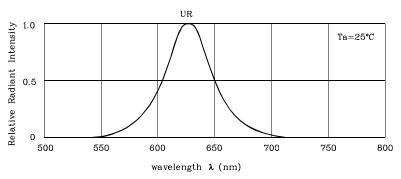
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007

Mar 05,2014 XDSA1920 V8-X Layout: Maggie L.



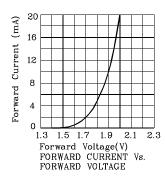


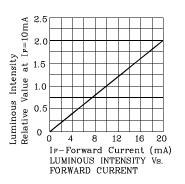


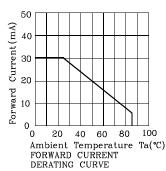


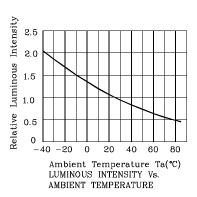
RELATIVE INTENSITY Vs. CIE WAVELENGTH

❖ UR

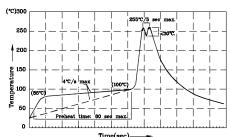








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- 1. Recommend pre-heat temperature of 105°C 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°C
 2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec (5 sec

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:

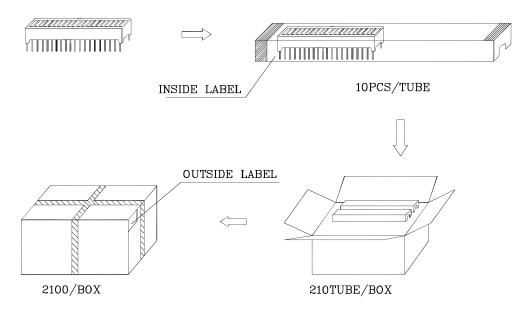
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

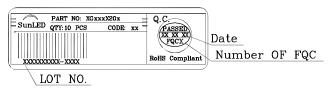


PACKING & LABEL SPECIFICATIONS

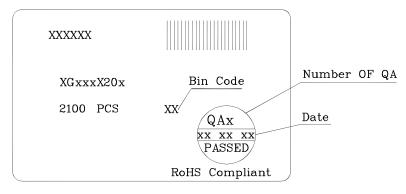
www.SunLEDusa.com 20 SEGMENTS BAR



Inside Label On IC-tube



Outside Label On Box



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- 2. Contents within this document are subject to improvement and enhancement changes without notice.
- 3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
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Mar 05,2014