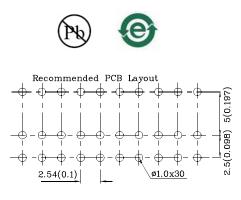


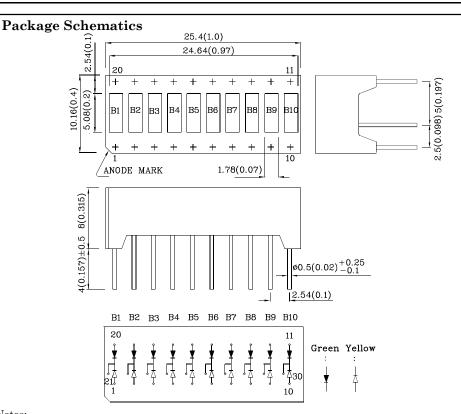
Part Number: XGUGUYX10D

10 SEGMENT BAR GRAPH ARRAY

Features

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







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 _A =25°C)		Green (GaP)	Yellow (GaAsP/ GaP)	Unit
Reverse Voltage	V_{R}	5	5	V
Forward Current	$I_{\rm F}$	25	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	140	mA
Power Dissipation	\mathbf{P}_{D}	62.5	75	mW
Operating Temperature	$T_{\rm A}$	-40 ~	°C	
Storage Temperature	Tstg	-40 ~		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3~5 Seconds			

A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Operating Characteristics (T _A =25°C)		Green (GaP)	Yellow (GaAsP/ GaP)	Unit		
Forward Voltage (Typ.) (I _F =10mA)	$V_{\rm F}$	2	1.95	V		
Forward Voltage (Max.)(I _F =10mA)	$V_{\rm F}$	2.5	5 2.5			
Reverse Current (Max.) (V_R =5V)	I_{R}	10	10	uA		
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λP	565*	590*	nm		
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	568*	588*	nm		
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$ riangle \lambda$	30	35	nm		
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	20	pF		
Luminous Intensity Waveleng CIE127-2007* CIE127-200 (IF=10mA) ucd nm λP		* I	Description			
min. typ.						
5600 11990 1400* 3990* 56	5*	1	0 Sogmonts			

			min.	typ.		
Green XGUGUYX10D Yellow	Green	GaP	5600 1400*	11990 3990*	565*	10 Segments Bar graph-Display
	Yellow	GaAsP/GaP	2200 900*	8990 2390*	590*	

Emitting

Material

 $\label{eq:loss} \hbox{``Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.}$

Emitting

Color

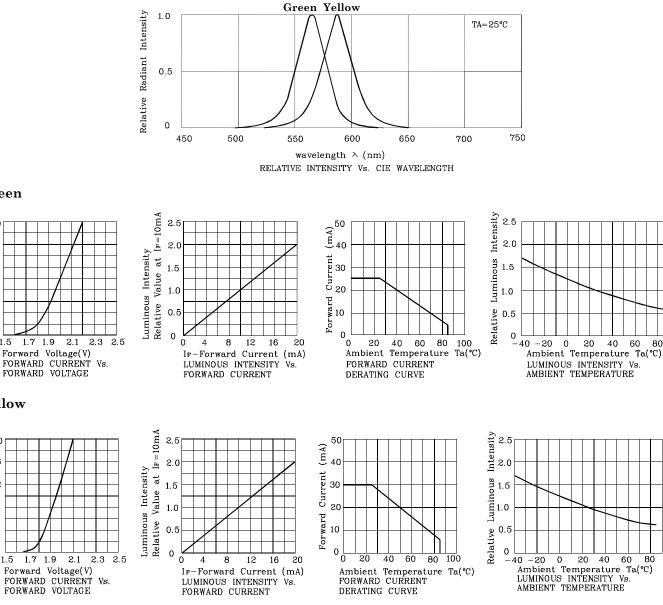
Oct 18,2016

Part

Number

XDSA1919 V8-X Layout: Maggie L.





Remarks:

1. Wavelength: +/-1nm

3. Forward Voltage: +/-0.1V

✤ Yellow

Green

20

16

12

8

4

0

15

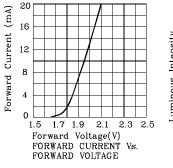
1.7 19 21

Forward Voltage(V)

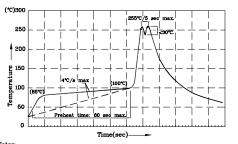
(mA)

Current

Forward







- pre-heat temperature of 105°C or less (as measured attached to the LED pins) prior to immersion in ti maximum solder bath temperature of 260°C idering temperature between 245°C ~ 255°C for 3 s 1. Recor thern mend pre with the with a maxi (5 sec
- not apply stress to the epoxy resin while the temperature is above 85°C. tures should not incur stress on the component when mounting and 4.Fixtur

- during solidering process: success on the component when inducting SAG 205 solider aloy is recommended.
 6.No more than one wave soldering pass.
 7.During wave soldering, the PCB top-surface temperature should be kept below 105°C.

If special sorting is required (e.g. binning based on forward voltage,

luminous intensity / luminous flux, or wavelength),

2. Luminous Intensity / Luminous Flux: +/-15%

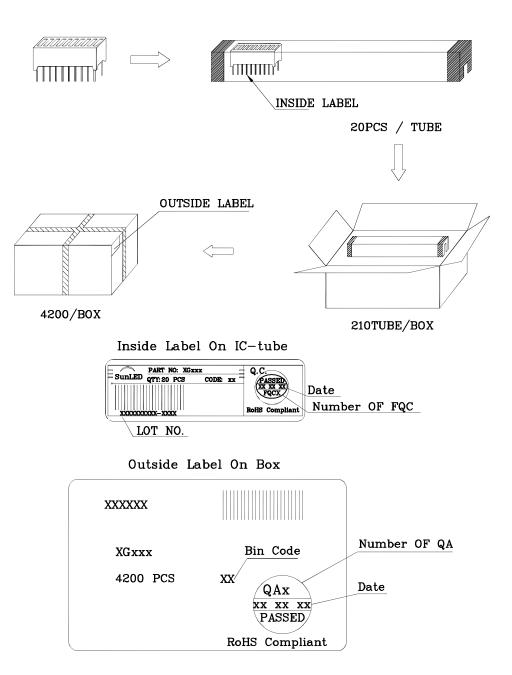
the typical accuracy of the sorting process is as follows:

Note: Accuracy may depend on the sorting parameters.

80



PACKING & LABEL SPECIFICATIONS



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- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
- 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.
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please
- consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
- 5. The contents within this document may not be altered without prior consent by SunLED.
- $6. \ Additional \ technical \ notes \ are \ available \ at \ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$