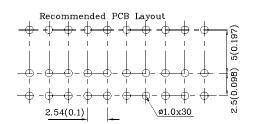
10 SEGMENT BAR GRAPH ARRAY

### **Features**

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







# **Package Schematics** 25.4(1.0) 2.54(0. 24.64(0.97) + + + 2.5(0.098) 5(0.197) 10.16(0.4) 5.08(0.2) В6 В8 B2 В4 B5 В9 B1 вз 1.78(0.07) ANODE MARK 8(0.315) $4(0.157)\pm0.5$ $\emptyset 0.5(0.02)^{+0.25}_{-0.1}$ 2.54(0.1) B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 Red Green

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)		Red (GaAsP/ GaP)	Green (GaP)	Unit
Reverse Voltage	$V_{\rm R}$	5	5	V
Forward Current	$I_{\mathrm{F}}$	30	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	160	140	mA
Power Dissipation	$P_D$	75	62.5	mW
Operating Temperature	$T_{A}$	-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 <sub>A</sub> =25°C)		Red (GaAsP/GaP)	Green (GaP)	Un it
Forward Voltage (Typ.) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	1.9	2	V
Forward Voltage (Max.) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	2.3	2.4	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_R$	10	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λΡ	627*	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λD	617*	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =10mA)	Δλ	45	30	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	15	15	рF

Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* (IF=10mA) ucd		Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XGURUGX10D	Red	GaAsP/GaP	3600 900*	8990 1990*	627*	10 Segments
	Green	GaP	5600 1400*	11990 3990*	565*	Bar graph-Display

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

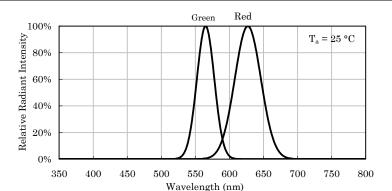
Nov 10,2018

XDSA1917 V9-X Layout: Maggie L.



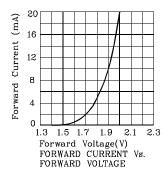


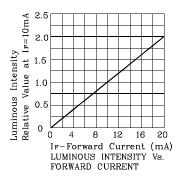


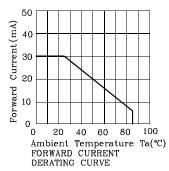


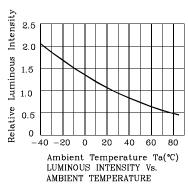
### Relative Intensity Vs. CIE Wavelength

## Red

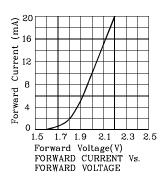


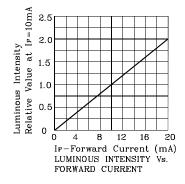


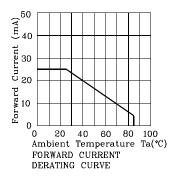


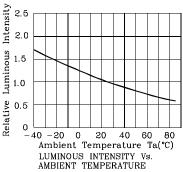


# Green

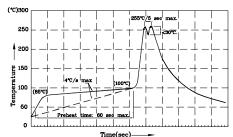








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- ore-heat temperature of 105°C or less (as measured attached to the LED pins) prior to immersion in the maximum solder bath temperature of 260°C
- 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
- Adving soldering process

  SAC 305 solder alloy is recommended.

  6.No more than one wave soldering pass.

  7.During wave soldering, the PCS top-surface temperature should be kept below 105°C.

### 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:

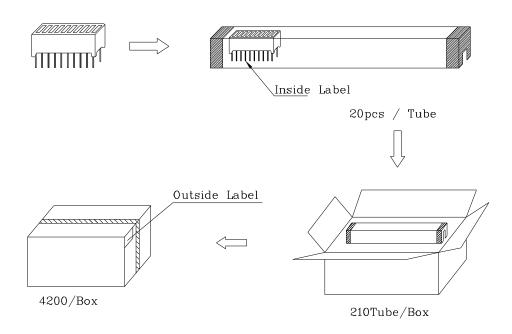
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.





### PACKING & LABEL SPECIFICATIONS





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