

Excellent Integrated System Limited

Stocking Distributor

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

<u>SunLED</u> XGMGX20D

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



Distributor of SunLED: Excellent Integrated System Limited

Datasheet of XGMGX20D - BAR GRAPH ARRAY 20-SEG GREEN

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



Part Number: XGMGX20D

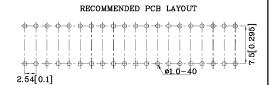
20 SEGMENTS BAR GRAPH ARRAY

Features

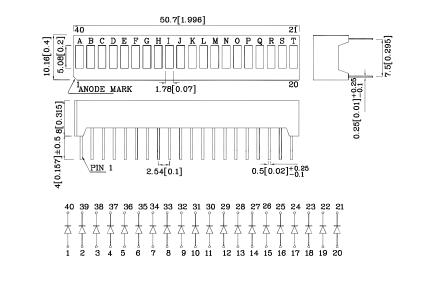
- Robust package
- Uniform light disbursement
- Ideal for backlighting logos or icons
- Excellent for flush mounting
- Standard configuration: Gray face w/ white segments
- RoHS Compliant







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 $(T_A=25^{\circ}C)$	MG (GaP)	Unit		
Reverse Voltage	$V_{\rm R}$	5	V	
Forward Current	I_{F}	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	mA	
Power Dissipation	P_{D}	62.5	mW	
Operating Temperature	T_{A}	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85	-0	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds			

Operating Characteristics (T _A =25°C)		MG (GaP)	Unit
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	2	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)	λР	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	λD 568*	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	Δλ	30	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	pF

Part Number	Color	Material Material	CIE127-2007* (I _F =10mA) ucd		CIE127-2007* nm λP	Description
			min.	typ.		
XGMGX20D	Green	GaP	5600 1400*	11990 2790*	565*	20 Segments Bar graph-Display

Luminous Intensity

XDSA1922 V8-X Layout: Maggie L.

^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 Mar $05{,}2014$



Distributor of SunLED: Excellent Integrated System Limited

Datasheet of XGMGX20D - BAR GRAPH ARRAY 20-SEG GREEN

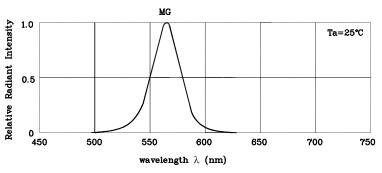
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Part Number: XGMGX20D

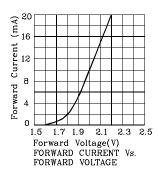
20 SEGMENTS BAR GRAPH ARRAY

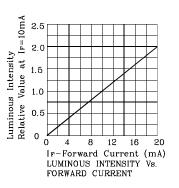


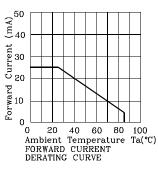


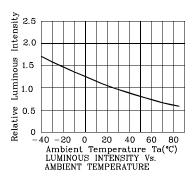
RELATIVE INTENSITY Vs. CIE WAVELENGTH

♦ MG

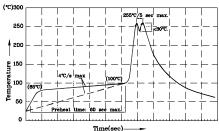








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- 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.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.



Distributor of SunLED: Excellent Integrated System Limited

Datasheet of XGMGX20D - BAR GRAPH ARRAY 20-SEG GREEN

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

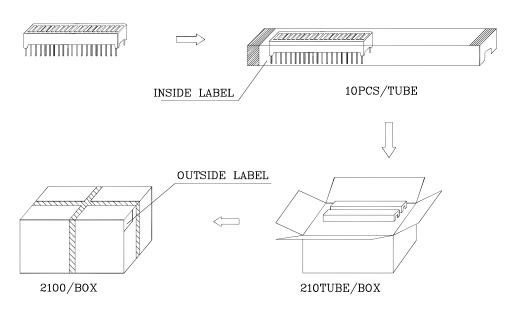


Part Number: XGMGX20D

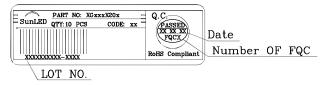
20 SEGMENTS BAR GRAPH ARRAY



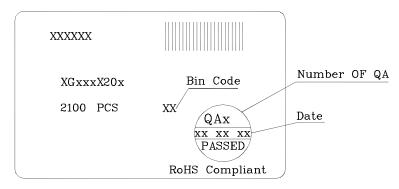
PACKING & LABEL SPECIFICATIONS



Inside Label On IC-tube



Outside Label On Box



TERMS OF USE

- 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 http://www.SunLEDusa.com/TechnicalNotes.asp

Mar 05,2014