

www.SunLEDusa.com

Part Number: XAMR20A

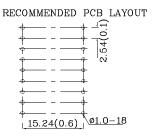
 $20.32 \mathrm{mm} \; (0.8") \; 16 \; \mathrm{SEGMENT} \; \mathrm{SINGLE} \; \mathrm{DIGIT}$ $\mathrm{ALPHANUMERIC} \; \mathrm{DISPLAY}$

Features

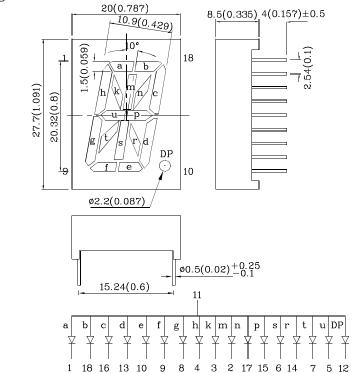
- Low power consumption
- ullet Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- RoHS Compliant







Package Schematics



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 _A =25°C)	MR (GaAlAs)	Unit		
Reverse Voltage	V_{R}	5	V	
Forward Current	I_{F}	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	155	mA	
Power Dissipation	P_{D}	75	mW	
Operating Temperature	T_{A}	-40 ~ +85	-40 ~ +85 -40 ~ +85	
Storage Temperature	Tstg	-40 ~ +85		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds			

Operating Characteristics (T _A =25°C)		MR (GaAlAs)	Unit
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	1.8	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	655*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=10\text{mA})$	λD	640*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$\triangle \lambda$	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	45	pF

Part Number	Emitting Color	Emitting Material	Luminous CIE127 (I _F =10m	-2007*	Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XAMR20A	Red	GaAlAs	14000 3600*	26990 7990*	655*	Common Anode, Rt. Hand Decimal.

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

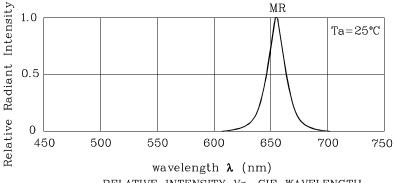
Feb 28.2014

XDSA1132 V7-X Layout: Maggie L.

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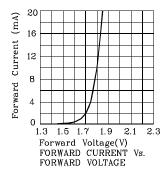
20.32mm (0.8") 16 SEGMENT SINGLE DIGIT ALPHANUMERIC DISPLAY

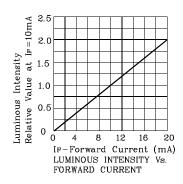


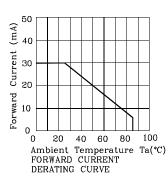


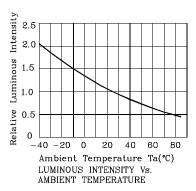
RELATIVE INTENSITY Vs. CIE WAVELENGTH

❖ MR

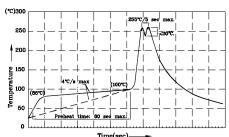








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- nmend pre-heat temperature of 105°C or less (as measured with a noccouple attached to the LED pins) prior to immersion in the solder with a maximum solder bath temperature of 250°C wave soldering temperature between 245°C \sim 255°C for 3 sec (5 sec
- 2.Peak wave soldering temperature oetwermax).
 3.Do not apply stress to the epoxy resin (-Pixtures should not incur stress on the 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.



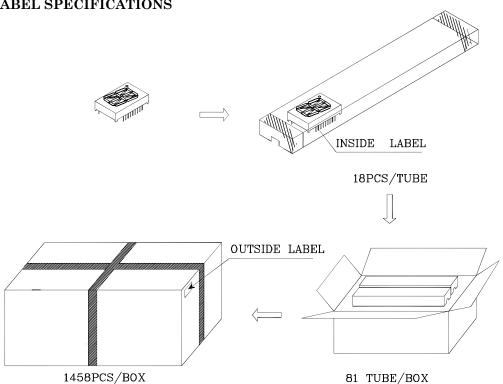
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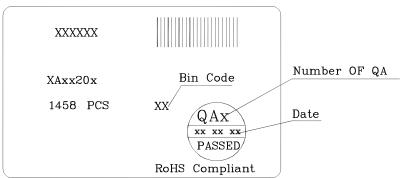
PACKING & LABEL SPECIFICATIONS



Inside Label On IC-tube



Outside Label On Box



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