

9.9mm (0.39") SINGLE DIGIT NUMERIC DISPLAY

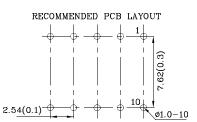
3,8

Features

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







Package Schematics 6.2(0.244) 10 1 13(0.512) 9.9(0.39)5 $0.5(0.02)^{+0.25}_{-0.1}$ ø1.2(0.047) 10(0.394) 7(0.276)

 $(0.157)\pm0.5$

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

 $0.25(0.01)^{+0.25}_{-0.1}$

2. Specifications are subject to change without notice.

7.62(0.3)

Absolute Maximum Ratings $(T_A=25^{\circ}C)$		UY (GaAsP/GaP)	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	140	mA	
Power Dissipation	P_{D}	75	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)	UY (GaAsP/GaP)	Unit	
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	1.95	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	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=10\text{mA})$	λD	588*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$\triangle \lambda$	35	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	20	pF

10

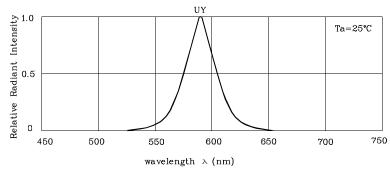
Part Number	Emitting Color	Emitting Material	$\begin{array}{c} Luminous\ Intensity \\ CIE127\text{-}2007^* \\ (I_F\text{=}10\text{mA}) \\ ucd \end{array}$		Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XDUY08A	Yellow	GaAsP/GaP	1400 360*	2990 990*	590*	Common Anode , Rt.Hand Decimal.

^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Jan 16,2014

XDSA0147 V7-X Layout: Maggie L.

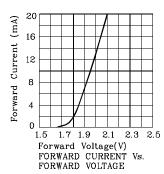


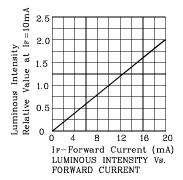


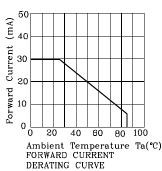


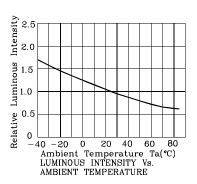
RELATIVE INTENSITY Vs. CIE WAVELENGTH

\$ UY

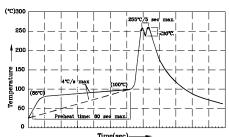








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- 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
- 2.Peak wave soldering temperature between 240 to 7 250 to 1 3 50 to 1 apply stress to the epoxy resin while the temperature is abd. 4.Pixtures should not incur stress on the component when mounting 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:

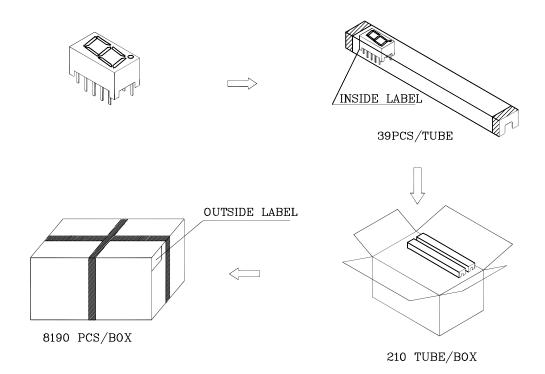
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.





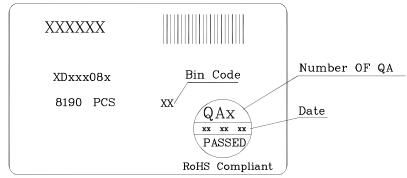
PACKING & LABEL SPECIFICATIONS



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.
- $6. \ Additional\ technical\ notes\ are\ available\ at\ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$

Jan 16,2014