

E SunLED

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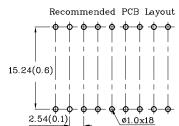
14.22mm (0.56") Dual Digit Numeric Display

Features

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



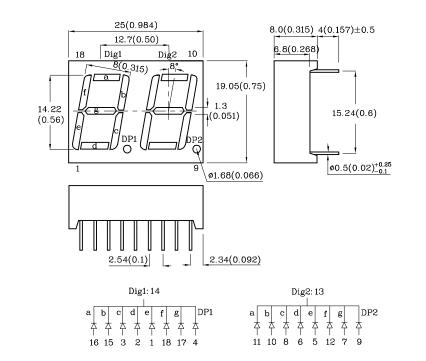






ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

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)	Red (AlGaInP)	Unit		
Reverse Voltage	$V_{\rm R}$	5	V	
Forward Current	I_{F}	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	185	mA	
Power Dissipation	P_{D}	75	mW	
Operating Temperature	T_{A}	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85		
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)	Red (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	1.85	V
Forward Voltage (Max.) (I _F =10mA)	V_{F}	2.35	V
Reverse Current (Max.) $(V_R=5V)$	I_{R}	10	μА
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λΡ	645*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$\triangle \lambda$	28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	pF

 Part Number	Emitting Color	Emitting Material	CIE127-2007* (I _F =10mA) ucd		Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XDMDK14C2	Red	AlGaInP	31000 9000*	84990 23990*	645*	Common Cathode, Rt.Hand Decimal.

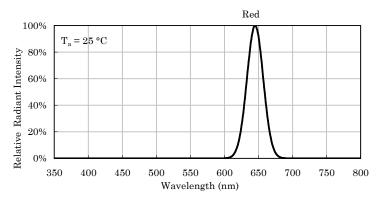
 $^{^*}$ Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Dec 10,2020 XDSA8858 V5-X Layout: Maggie L.



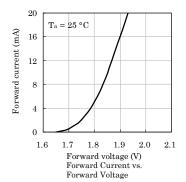


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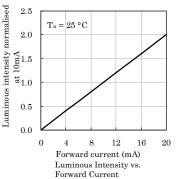


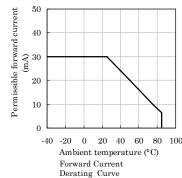
Relative Intensity Vs. CIE Wavelength

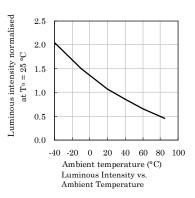
* Red



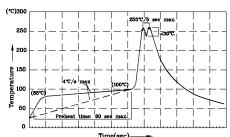
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Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- Notes:

 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 250°C for 3 sec (5 sec max).

 2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec (5 sec max).

 3. Do not apply stress to the epoxy resin while the temperature is above 85°C 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.

 7. During wave soldering, the PCB top-surface temperature should be kept below 105°C.
- while the temperature is above 85°C. e component when mounting and

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

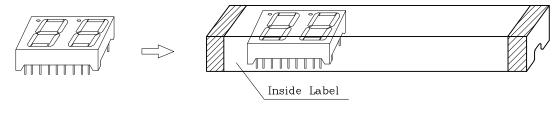
Note: Accuracy may depend on the sorting parameters.



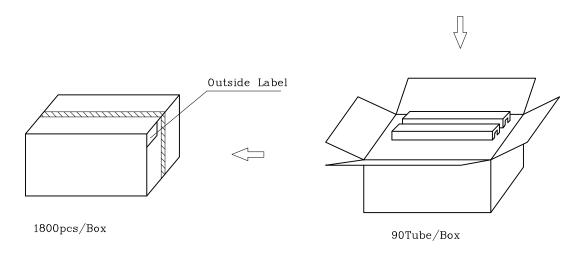
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PACKING & LABEL SPECIFICATIONS

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20pcs/Tube





TERMS OF USE

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- 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. When any special process such as potting is required for LED assembly, please consult with SunLED representative before proceeding.
- 7. Additional technical notes are available at https://www.SunLEDusa.com/TechnicalNotes.asp

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