

Part Number: XDMDK100A

101.2mm (4.0") SINGLE DIGIT NUMERIC DIS-PLAY

Features

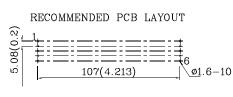
- \bullet Low power consumption
- \bullet Robust package
- I.C. Compatible

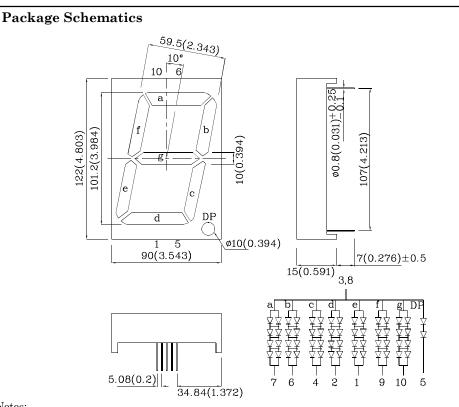
• Standard configuration: Gray face w/ white segments

• Optional black face provides superior color contrast

• RoHS Compliant







Notes: 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted. 2. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)	MDK (AlGaInP)	Unit		
Reverse Voltage (Per Chip)	V_{R}	V _R 5		
Forward Current (Dp)	$I_{\rm F}$ $\begin{pmatrix} 60\\(30) \end{pmatrix}$		mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width (Dp)	ifs	370 (185)	mA	
Power Dissipation (Per Chip)	er Chip) P _D 150		mW	
Operating Temperature	TA	$-40 \sim +85$	°C	
Storage Temperature	Tstg	-40 ~ +85		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds			

Operating Characteristics (T _A =25°C)		MDK (AlGaInP)	Unit
Forward Voltage (Typ.) (Dp) (I _F =10mA)	V_{F}	7.4 (3.7)	V
Forward Voltage (Max.) (Dp) (I _F =10mA)	V_{F}	10 (5.0)	V
Reverse Current (Max.) (Per Chip) (V_R =5V)	I_R	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λP	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)	$ riangle \lambda$	28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* (I _F =10mA) ucd	Wavelength CIE127-2007* nm λP	Description
			min. typ.		
XDMDK100A	Red	AlGaInP	88000 249990 31000* 73990*	645*	Common Anode, Rt.Hand Decimal.

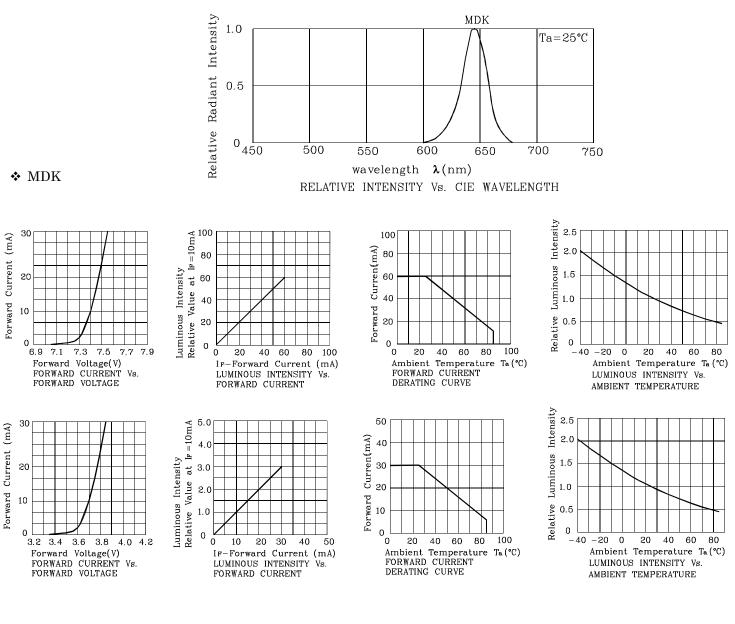
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Mar 11,2014

XDSB0881 V3-X Layout: Maggie L.

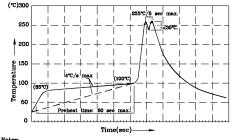


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PLAY



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



Notes: 1. Recommend pre-heat temperature of 105°C or less (as measured thermecouple attached to the LED pins) prior to immersion in U wave with a maximum solder bath temperature of 260°C 2. Peak wave soldering temperature between 245°C ~ 255°C for 3 so max). with a sec (5 sec

and

max). 3.Do not apply stress to the epoxy resin while the temperature is al 4.Fixtures 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. 7.During wave soldering, the PCB top-surface temperature should be kept below 105°C.

Remarks:

If special sorting is required (e.g. binning based on forward voltage,

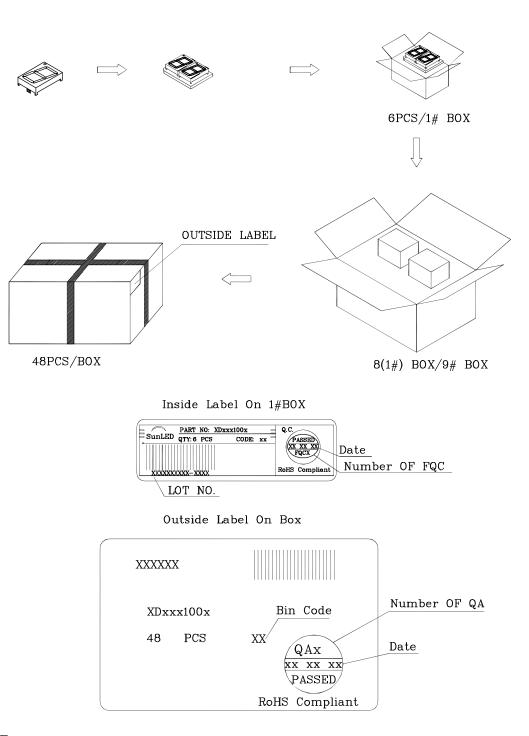
luminous intensity / luminous flux, or wavelength),

- 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



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
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- 6. Additional technical notes are available at http://www.SunLEDusa.com/TechnicalNotes.asp