

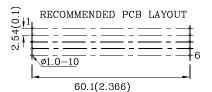
57mm (2.3") SINGLE DIGIT NUMERIC DISPLAY

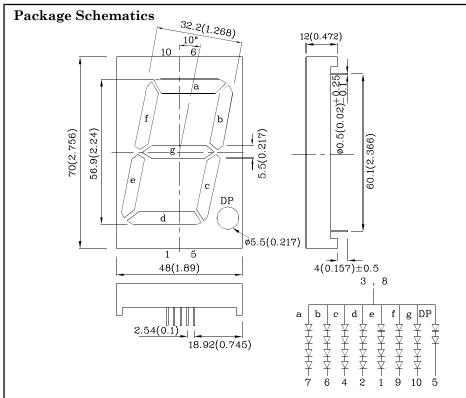
Features

- 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









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 $(T_A=25^{\circ}C)$		MDK (AlGaInP)	Unit	
Reverse Voltage (Per Chip) VI		5	V	
Forward Current (Dp)	I_{F}	30 (30)	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width(Dp)	i_{FS}	185 (185)	mA	
Power Dissipation (Per Chip)	P_{D}	150	mW	
Operating Temperature	$T_{\rm A}$	-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)		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)	λΡ	645*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=10\text{mA})$	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

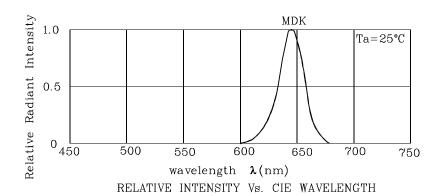
Part Number	Emitting Color	Emitting Material	CIE127 (I _F =10m	7-2007*	Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XDMDK57A	Red	AlGaInP	255000 52000*	439990 119990*	645*	Common Anode, Rt. Hand Decimal

^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Mar 10.2014

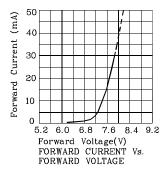
XDSB7716 V1-X Layout: Maggie L.

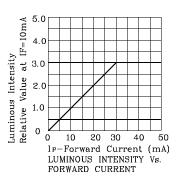


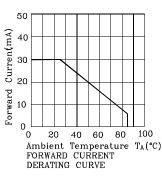


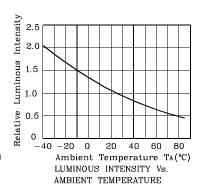


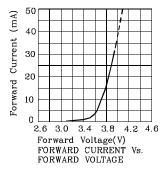
❖ MDK

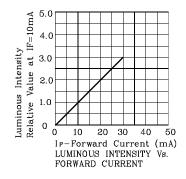


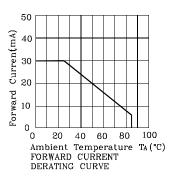


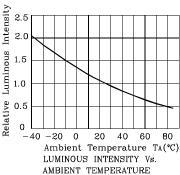




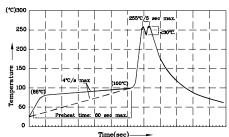








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



pre-heat temperature of 105°C or less (as measured attached to the LED pins) prior to immersion in ti-maximum solder bath temperature of 260°C oldering temperature between 245°C ~ 255°C for 3 s

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

Adving soldering process

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%

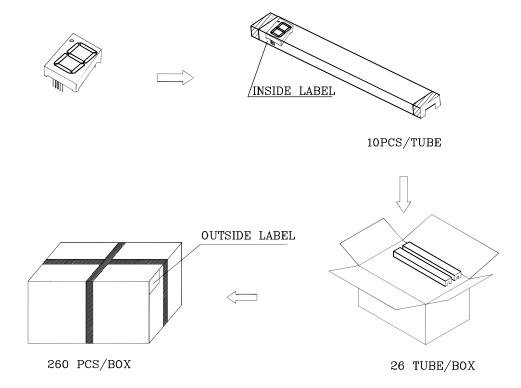
3. Forward Voltage: +/-0.1V

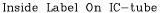
Note: Accuracy may depend on the sorting parameters.

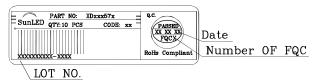




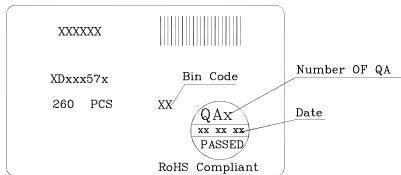
PACKING & LABEL SPECIFICATIONS







Outside Label On Box



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

Mar 10,2014