Excellent Integrated System Limited

Stocking Distributor

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SunLED XDMDK20C-1

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of SunLED: Excellent Integrated System Limited

Datasheet of XDMDK20C-1 - DISPLAY 20.32MM RED 1DIGIT CC

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Part Number: XDMDK20C-1

20.32mm (0.8") SINGLE DIGIT NUMERIC DIS-

PLAY

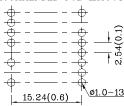
Features

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

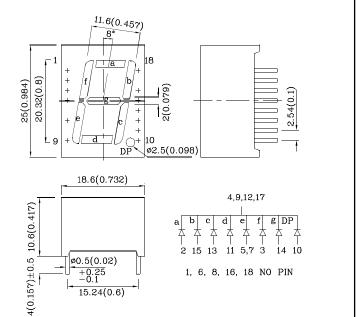




RECOMMENDED PCB LAYOUT



Package Schematics



Notes:

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

Wavelength

15.24(0.6)

2. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)	MDK (AlGaInP)	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	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			

Operating Characteristics (T _A =25°C)	MDK (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	1.85	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	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)	C	35	pF

Part Number	Emitting Color	Emitting Material	CIE127-2007* (I _F =10mA) ucd		CIE127-2007* nm λΡ	Description
			min.	typ.		
XDMDK20C-1	Red	AlGaInP	31000 9000*	60990 18990*	645*	Common Cathode, Rt. Hand Decimal

Luminous Intensity

Jan 17,2014

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



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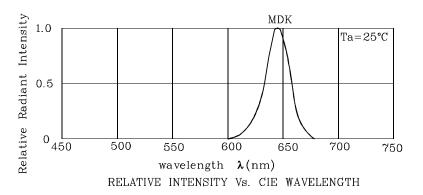
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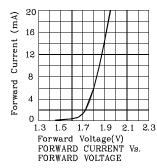
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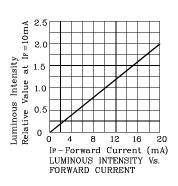
20.32mm (0.8") SINGLE DIGIT NUMERIC DIS-

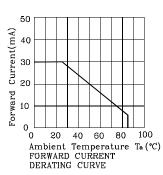
PLAY

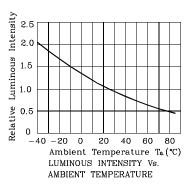


♦ MDK

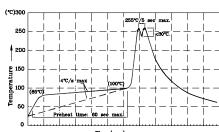








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- temperature of 105°C or less (as i to the LED pins) prior to immen solder bath temperature of 260°
- max).
 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
 during soldering process.
 5.3AC 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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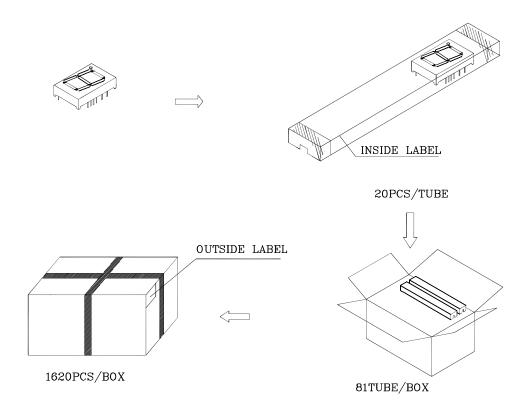


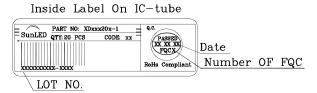
Part Number: XDMDK20C-1

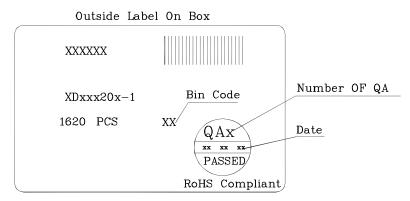
 $20.32 \mathrm{mm}$ (0.8") SINGLE DIGIT NUMERIC DIS-

PLAY

PACKING & LABEL SPECIFICATIONS







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 17,2014 XDSB7704 V1-X Layout: Maggie L.