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Part Number: XDMDK46C

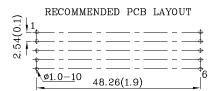
 $44.5 \mathrm{mm}$ (1.75") SINGLE DIGIT NUMERIC DISPLAY

Features

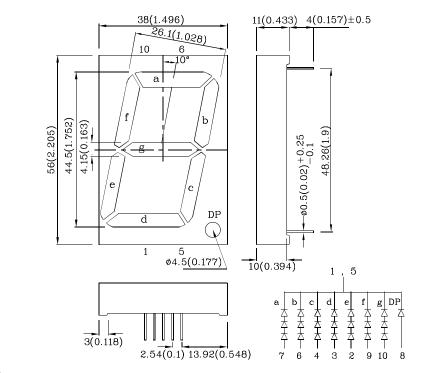
- Low power consumption
- ullet Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- RoHS Compliant







Package Schematics



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}	5	V
Forward Current (Dp)		30 (30)	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width (Dp)	ifs	185 (185)	mA
Power Dissipation (Per Chip)	P_D	75	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}	5.55 (1.85)	V
Forward Voltage (Max.) (Dp) (I _F =10mA)	V_{F}	7.5 (2.5)	V
Reverse Current (Max.) (Per Chip) (V_R =5 V)	$I_{ m R}$	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.) $\triangle \lambda$ (I _F =10mA)		28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	pF

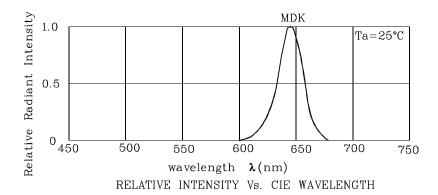
	Part Number	Emitting Color	Emitting Material	Luminous CIE127 (I _F =10n	-2007*	Wavelength CIE127-2007* nm λP	Description
				min.	typ.		
-	XDMDK46C	Red	AlGaInP	150000 31000*	309990 89990*	645*	Common Cathode, Rt.Hand Decimal.

^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Jan 17,2014

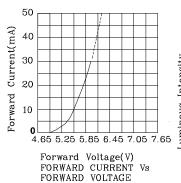
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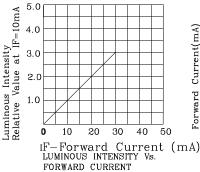
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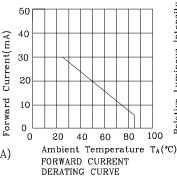


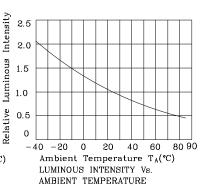


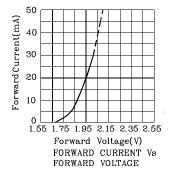
❖ MDK

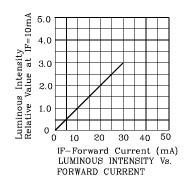


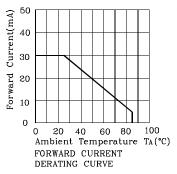


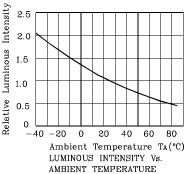




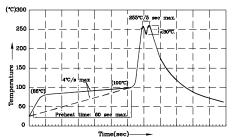








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- amend pre-heat temperature of 105°C or less (as measured with a occouple attached to the LED pins) prior to immersion in the solid with a maximum solder bath temperature of 250°C wave soldering temperature between 245°C \sim 255°C for 3 sec (5 s
- 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.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:

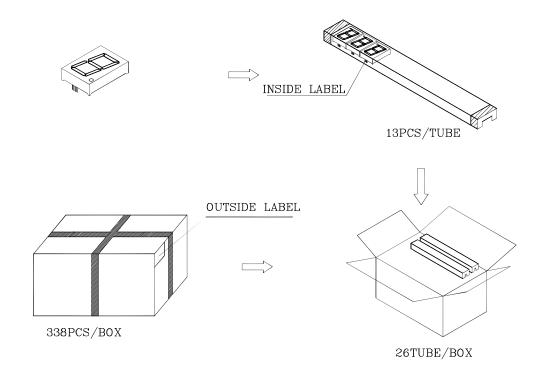
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

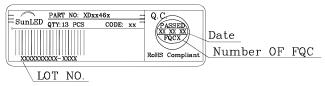
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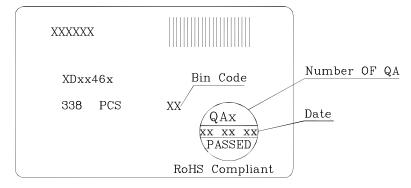
PACKING & LABEL SPECIFICATIONS



Inside Label On IC-tube



Outside Label On Box



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- 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.
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