



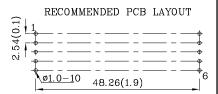
44.5mm (1.75") SINGLE DIGIT NUMERIC DIS-**PLAY** 

### **Features**

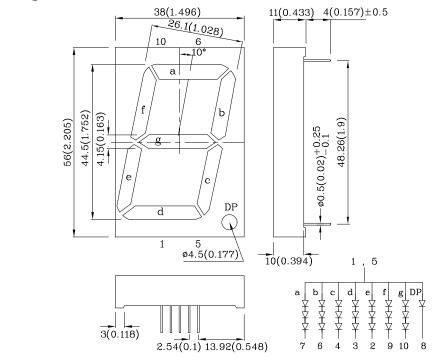
- Low power consumption
- ullet Robust package
- I.C. Compatible
- $\bullet$  Standard configuration: Gray face w/ white segments
- ullet Optional black face provides superior color contrast
- RoHS Compliant







# **Package Schematics**



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

Wavelength

2. Specifications are subject to change without notice.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)	MYK (AlGaInP) Unit			
Reverse Voltage (Per Chip)	$V_{\rm R}$	5	V	
Forward Current ( Dp)	$I_{\mathrm{F}}$	I <sub>F</sub> 30 (30)		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width (Dp)	ifs	175 (175)	mA	
Power Dissipation (Per Chip)	$P_D$	75	mW	
Operating Temperature	$T_{A}$	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85	1 -0	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3~5 Seconds			

Dont

Operating Characteristics (T <sub>A</sub> =25°C)		MYK (AlGaInP)	Unit
Forward Voltage (Typ.) (Dp) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	5.85 (1.95)	V
Forward Voltage (Max.) (Dp) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	7.5 (2.5)	V
Reverse Current (Max.) (Per Chip) (V <sub>R</sub> =5V)	$I_R$	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λР	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=10\text{mA})$	λD 590*		nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =10mA)	Δλ	20	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	20	pF

Number	Color	Material	CIE127-2 (IF=10m/		CIE127-2007* nm λP	Description
			min.	typ.		
XDMYK46A	Yellow	AlGaInP		589990 189990*	590*	Common Anode , Rt.Hand Decimal.

Emitting

Luminous Intensity

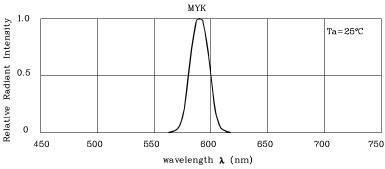
Emitting

<sup>\*</sup>Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Mar 10,2014

# Part Number: XDMYK46A

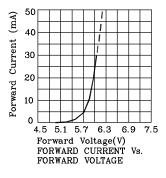
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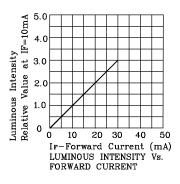


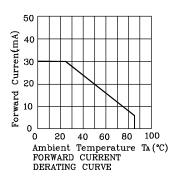


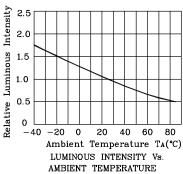
RELATIVE INTENSITY Vs. CIE WAVELENGTH

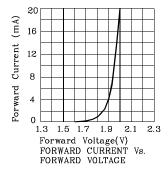
### **❖** MYK

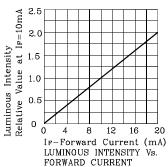


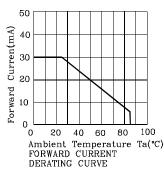


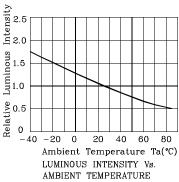




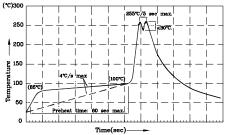








### Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- end pre-heat temperature of 106°C or less (as measured with a ouple attached to the LED pins) prior to immersion in the solder that a maximum solder bath temperature of 260°C.
- 3.10a.j.
  3.10 and apply stress to the epoxy resin while the temperature is a 5. Fixtures should not incur stress on the component when mounting during soldering process.
  5.8AC 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:

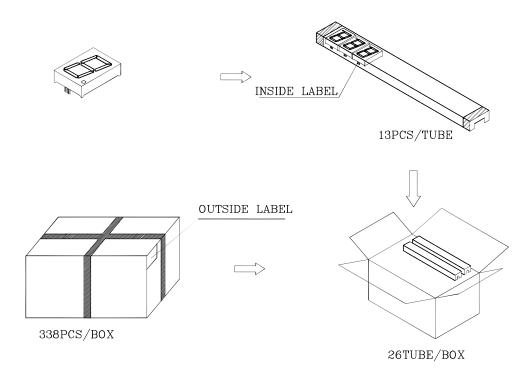
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage:  $\pm -0.1$ V

Note: Accuracy may depend on the sorting parameters.

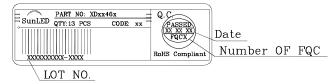


 $44.5 \mathrm{mm}$  (1.75") SINGLE DIGIT NUMERIC DISPLAY

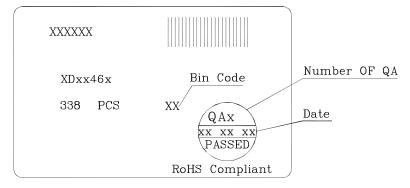
### PACKING & LABEL SPECIFICATIONS



Inside Label On IC-tube



# Outside Label On Box



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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.
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