

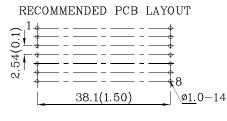
Part Number: XMMYK50C

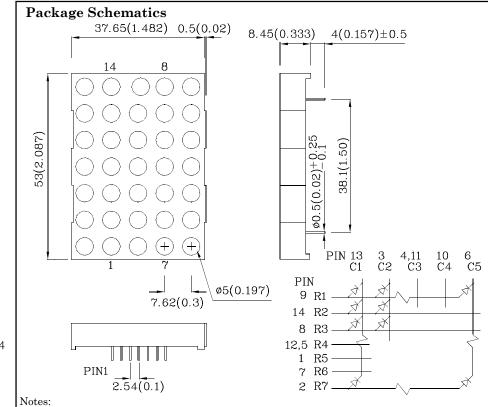
50mm (2.0 ") 5x7 DOT MATRIX DISPLAY

Features

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







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

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

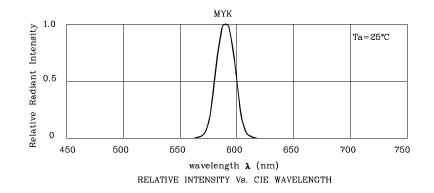
Operating Characteristics (T _A =25°C)		MYK (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	1.95	V
Forward Voltage (Max.) (I _F =10mA)	V _F 2.5		V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λP	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$ riangle\lambda$	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	20	$_{\rm pF}$

Part Number	Emitting Color	Emitting Material	Luminous Intens: CIE127-2007* (I _F =10mA) ucd	CIE127-2007*	Description
			min. typ.		
XMMYK50C	Yellow	AlGaInP	88000 15999 21000* 5099	590*	Column Cathode

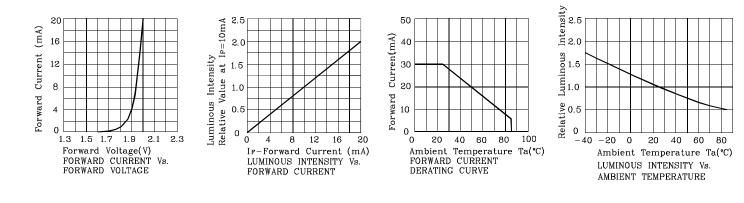
*Luminous intensity value and wavelength are in accordance with CIE127-2007 Mar 04,2014

XDSA4008 V4-X Layout: Maggie L.

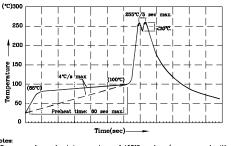




♦ MYK



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



nmend pre-heat temperature of 105°C or less (as measured with a noccupie attached to the LED pins) prior to immersion in the solder with a maximum solder bath temperature of 260°C wave soldering temperature between $245°C \sim 255°C$ for 3 sec (5 sec 1. Rec the wave 2.Peak

Peak wave soldering temperature between 2+30 - 2+30

Remarks:

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

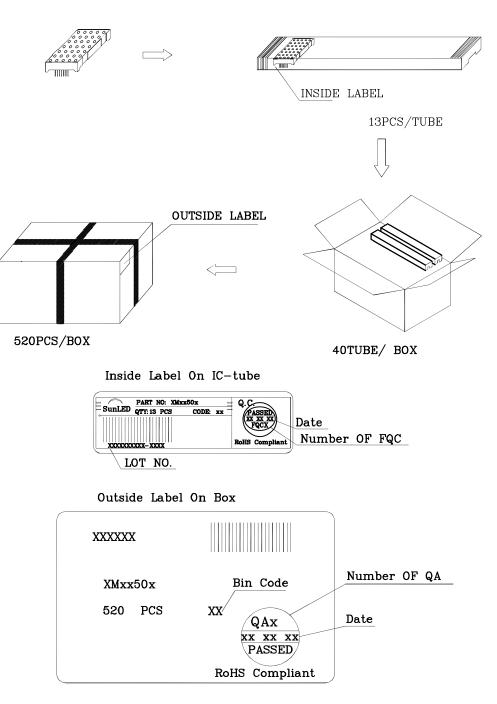
luminous intensity / luminous flux, or wavelength),

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

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