

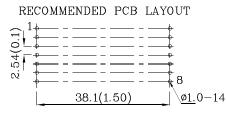
## Part Number: XMMYK50A

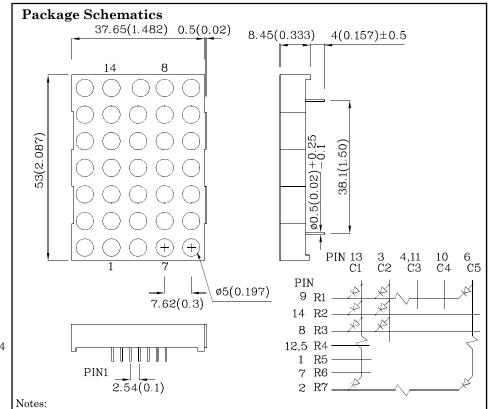
50mm (2.0 ") 5x7 DOT MATRIX DISPLAY

### 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.

| bsolute Maximum Ratings<br>$T_A=25^{\circ}C$ )                 |                       | MYK<br>(AlGaInP) | Unit |  |
|--|-----------------------|------------------|------|--|
| Reverse Voltage  | $V_{R}$               | 5                | V    |  |
| Forward Current  | $I_{\rm F}$           | 30               | mA   |  |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>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<br>[2mm Below Package Base]            | 260°C For 3-5 Seconds |                  |      |  |

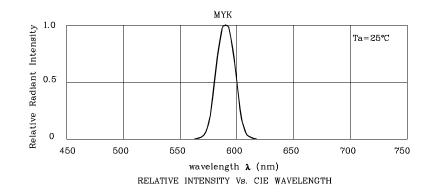
| Operating Characteristics<br>(T <sub>A</sub> =25°C)                              |                   | MYK<br>(AlGaInP) | Unit        |
|--|-------------------|------------------|-------------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =10mA)                                 | $V_{\mathrm{F}}$  |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

| Part<br>Number | Emitting<br>Color | Emitting<br>Material | Luminous Intensity<br>CIE127-2007*<br>(I <sub>F</sub> =10mA) ucd | Wavelength<br>CIE127-2007*<br>nm λΡ | Description  |
|----------------|-------------------|----------------------|--|-------------------------------------|--------------|
|                |                   |                      | min. typ.  |                                     |              |
| XMMYK50A       | Yellow            | AlGaInP              | 88000 159990<br>21000* 50990*                                    | 590*                                | Column Anode |

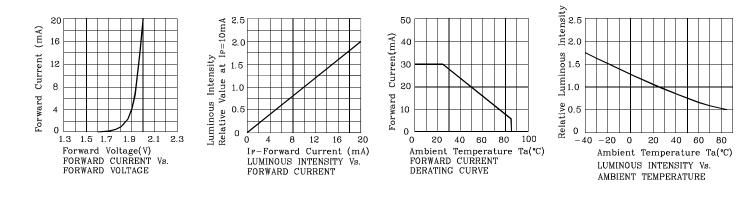
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 Mar 04,2014

XDSB7735 V1-X Layout: Maggie L.

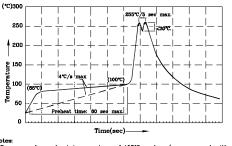




## ♦ MYK



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

3. Forward Voltage: +/-0.1V

Remarks:

1. Wavelength: +/-1nm

Note: Accuracy may depend on the sorting parameters.

luminous intensity / luminous flux, or wavelength),

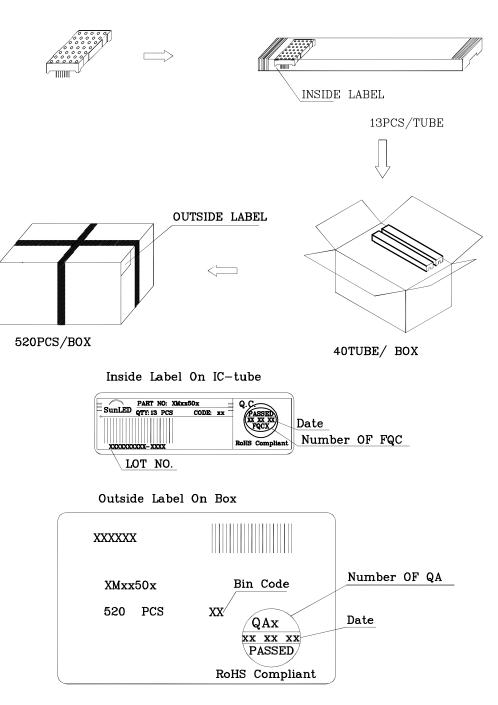
2. Luminous Intensity / Luminous Flux: +/-15%

the typical accuracy of the sorting process is as follows:

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



# **PACKING & LABEL SPECIFICATIONS**



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