

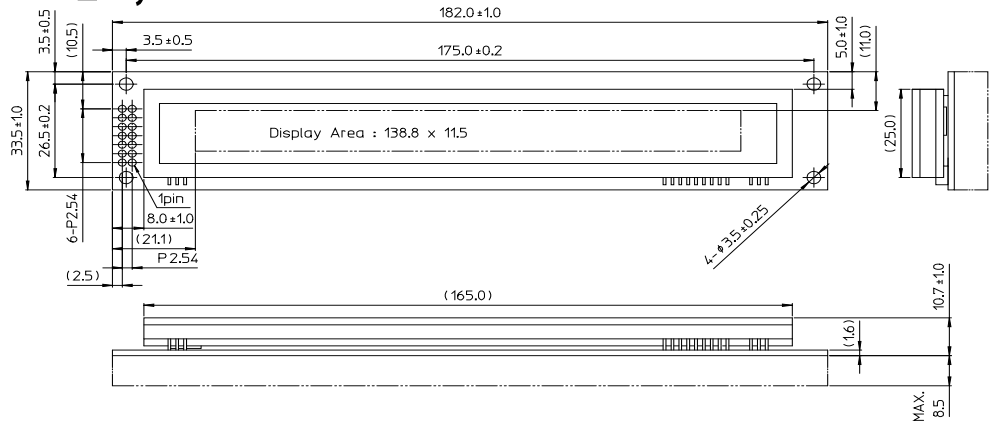
## CU40025-UW6J

## SIMPLIFIED DATASHEET

## ■ Features

40 character x 2 line, long text display capable.  
Useful for showing a lot of information on each line.

## ■ Physical dimension



() : Reference only  
Unit : mm

## Get full specification



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## Specifications

## ■ Electrical Ratings

| Parameter                                                     | Symbol  | Min.   | Typ. | Max.   | Unit | Condition      |
|---------------------------------------------------------------|---------|--------|------|--------|------|----------------|
| Logic Input Voltage<br>DB0-DB7, RS,R/W(WR),<br>E(RD),SCK, STB | VIH1    | 2.0    | -    | VCC    | VDC  | VCC-VSS= 5.0 V |
|                                                               | VIL1    | VSS    | -    | 0.8    | VDC  |                |
| Logic Input Voltage<br>SI/SO                                  | VIH2    | 0.7VCC | -    | VCC    | VDC  | VCC-VSS= 5.0 V |
|                                                               | VIL2    | VSS    | -    | 0.3VCC | VDC  |                |
| Logic Input Voltage<br>/RESET                                 | VIH3    | 0.8VCC | -    | VCC    | VDC  | VCC-VSS= 5.0 V |
|                                                               | VIL3    | VSS    | -    | 0.2VCC | VDC  |                |
| Power supply Voltage                                          | VCC-VSS | 4.75   | 5.00 | 5.25   | VDC  | -              |

## ■ Electrical Characteristics

| Parameter                   | Symbol | Min.    | Typ. | Max. | Unit | Condition   |
|-----------------------------|--------|---------|------|------|------|-------------|
| Logic Output Voltage<br>'H' | VOH    | VCC-0.8 | -    | -    | VDC  | IOH = -4 mA |
| 'L'                         | VOL    | -       | -    | 0.6  | VDC  | IOL = 4 mA  |
| 'H'                         | VOH    | VCC-0.5 | -    | -    | VDC  | IOH = -2 mA |
| 'L'                         | VOL    | -       | -    | 0.5  | VDC  | IOL = 2 mA  |
| Power Supply Current 1      | ICC1   | -       | 300  | 390  | mA   | Display ON  |
| Power Supply Current 2      | ICC2   | -       | 5    | 10   | mA   | Display OFF |
| Power Consumption           |        | -       | 1.5  | 2.0  | W    | Display ON  |

## ■ Optical Characteristics

| Parameter             |                            |
|-----------------------|----------------------------|
| Luminance             | 350 cd/m <sup>2</sup> Min. |
| Color of illumination | Green (Blue-Green)         |

## ■ Environmental Conditions

| Parameter                 |                                                  |
|---------------------------|--------------------------------------------------|
| Operating Temperature     | -40 ~ +85 degrees celsius                        |
| Storage Temperature       | -50 ~ +85 degrees celsius                        |
| Operating Humidity        | 20 ~ 80% R.H. (non-condensing)                   |
| Vibration (Non operation) | 10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z |
| Shock (Non operation)     | 539m/s <sup>2</sup> (55G) 10ms                   |

## ■ Physical Specifications

| Parameter       | *ANK(Alphabet, Numeric, Kana) |
|-----------------|-------------------------------|
| Number of char. | 80 (40 x 2)                   |
| Built-in Fonts  | 5 x 7 ANK, International      |
| Display area    | 138.8 x 11.5 mm (X x Y)       |
| Character size  | 2.3 x 4.7 mm (X x Y)          |
| Character pitch | 3.5 mm                        |
| Line pitch      | 6.1 mm                        |
| Weight          | About 76 g                    |

## ■ Interface

8bit/4bit Parallel(TTL), Synchronous Serial (CMOS)

## ■ Pin Assignment (Parallel)

| Pin No | Signal  | Pin No | Signal |
|--------|---------|--------|--------|
| 1      | GND     | 8      | DB1    |
| 2      | VCC     | 9      | DB2    |
| 3      | NC      | 10     | DB3    |
| 4      | RS      | 11     | DB4    |
| 5      | R/W(WR) | 12     | DB5    |
| 6      | E(RD)   | 13     | DB6    |
| 7      | DB0     | 14     | DB7    |

## (Synchronous Serial)

| Pin No | Signal |
|--------|--------|
| 1      | VCC    |
| 2      | SI/SO  |
| 3      | GND    |
| 4      | STB    |
| 5      | SCK    |
| 6      | NC     |

## ■ Functions

| Parameter                                      |
|------------------------------------------------|
| Command compatible with HD44780 LCD controller |
| Display ON/OFF                                 |
| Brightness Control                             |
| Cursor ON/OFF                                  |
| 8 User definable character font                |
| etc.                                           |