

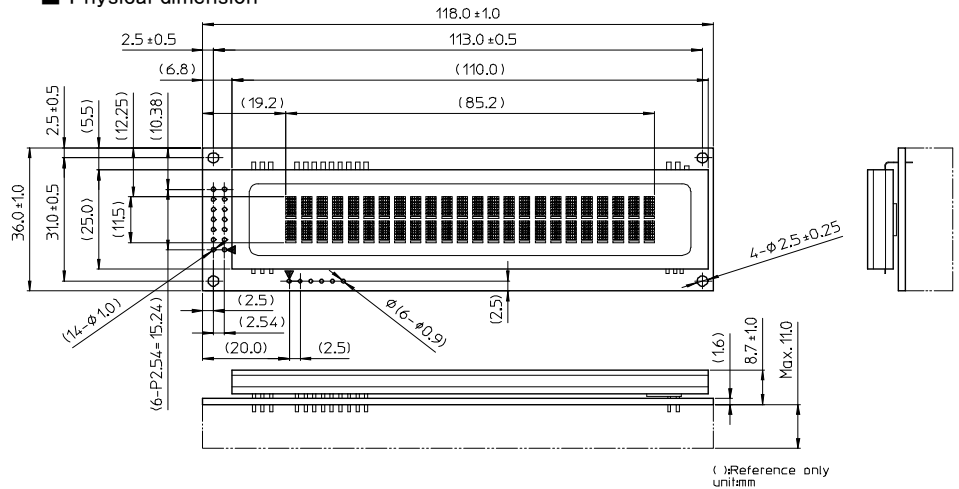
# CU24025-UW1J

## SIMPLIFIED DATASHEET

### ■ Features

24 character x 2 line display.  
A good balance between display size and amount of text display.

### ■ Physical dimension



### Specifications

#### ■ Electrical Ratings

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

#### ■ Physical Specifications

Parameter	*ANK(Alphabet, Numeric, Kana)
Number of char.	48 (24 x 2)
Built-in Fonts	5x7 ANK, International
Display area	85.2 x 11.5 mm (X x Y)
Character size	2.4 x 4.7 mm (X x Y)
	Underline is not included.
Character pitch	3.6 mm
Line pitch	6.1 mm
Weight	About 47 g

#### ■ Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Output Voltage						
'H'	VOH	VCC-0.8	-	-	VDC	IOH = -4 mA
'L'	VOL	-	-	0.6		IOL = 4 mA
'H'	VOH	VCC-0.5	-	-	VDC	IOH = -2 mA
'L'	VOL	-	-	0.5		IOL = 2 mA
Power Supply Current 1	ICC1	-	165	215	mA	Display ON
Power Supply Current 2	ICC2	-	13	25	mA	Display OFF
Power Consumption		-	0.825	1.075	W	Display ON

#### ■ Interface

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

#### ■ Pin Assignment (Parallel)

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

#### (Synchronous Serial )

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

#### ■ 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

#### ■ Functions

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

