

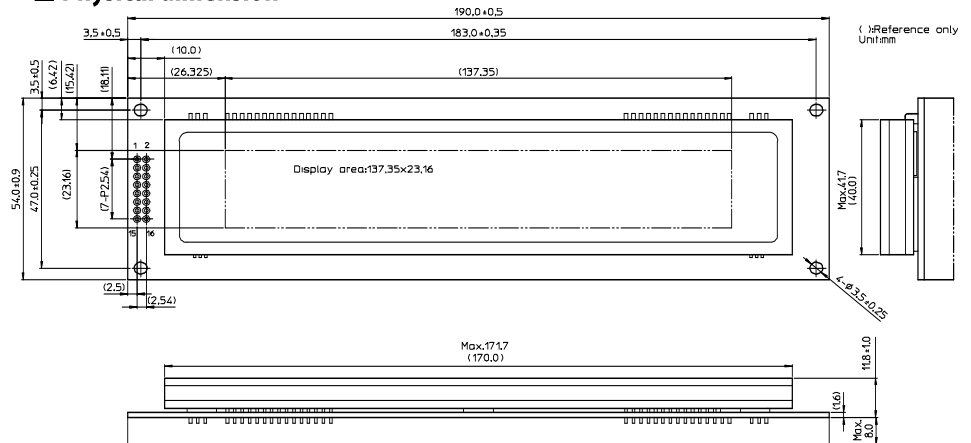
# CU40045-UW1J

## SIMPLIFIED DATASHEET

### ■ Features

40 character x 4 line, up to 160 characters can be displayed simultaneously. Very useful for applications that need a show a lot of information at a glance.

### ■ Physical dimension



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### Specifications

#### ■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Input Voltage	VIH1	2.0	-	VCC	VDC	VCC-VSS= 5.0 V
	VIL1	VSS	-	0.8	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	'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	-	520	680	mA	Display ON
Power Supply Current 2	ICC2	-	20	30	mA	Display OFF
Power Consumption		-	2.6	3.4	W	Display ON

#### ■ Optical Characteristics

Parameter	Value
Luminance	350 cd/m <sup>2</sup> Min. (1000 cd/m <sup>2</sup> Typ.)
Color of illumination	Green (Blue-Green)

#### ■ Environmental Conditions

Parameter	Value
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	Value
Number of char.	160 (40 x 4)
Matrix format	5 x 7 ANK, International
Display area	137.35 x 23.16 mm (X x Y)
Character size	2.07 x 4.89 mm (X x Y)
Character pitch	3.47 mm
Line pitch	6.09 mm
Weight	About 140 g

#### ■ Interface

8bit/4bit Parallel(TTL)

#### ■ Pin Assignment (Parallel)

Pin No	Signal	Pin No	Signal
1	DB7	2	DB6
3	DB5	4	DB4
5	DB3	6	DB2
7	DB1	8	DB0
9	E1	10	R/W
11	RS	12	NC
13	GND	14	Vcc
15	E2	16	NC

#### ■ Functions

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