



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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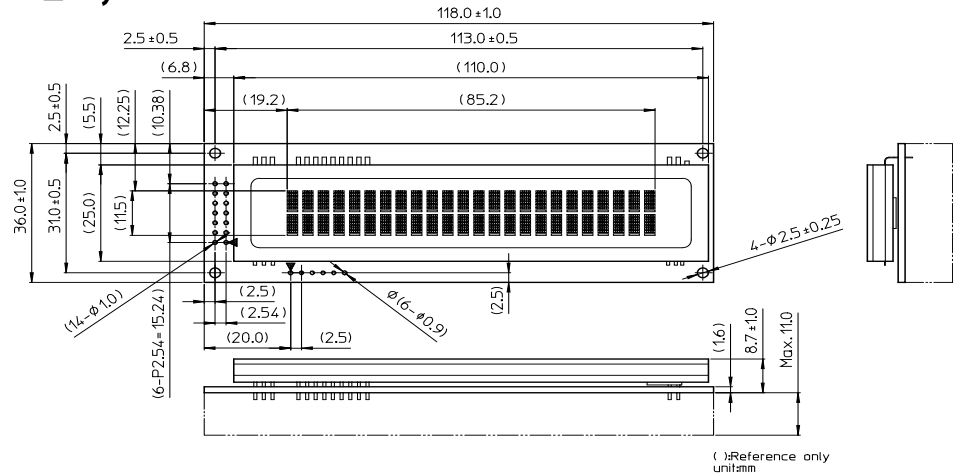
CU24025-UW1J

SIMPLIFIED DATASHEET

Features

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

Physical dimension



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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	VDC	
Logic Input Voltage SI/SO	VIH2	0.7VCC	-	VCC	VDC	VCC-VSS= 5.0 V
	VIL2	VSS	-	0.3VCC	VDC	
Logic Input Voltage /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 '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	-	165	215	mA	Display ON
Power Supply Current 2	ICC2	-	13	25	mA	Display OFF
Power Consumption		-	0.825	1.075	W	Display ON

Optical Characteristics

Parameter	Value
Luminance	350 cd/m ² Min.
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 ² (55G) 10ms

Physical Specifications

Parameter	Value	*ANK(Alphabet, Numeric, Kana)
Number of char.	48 (24 x 2)	
Built-in Fonts	5 x 7 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	

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

Functions

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

