

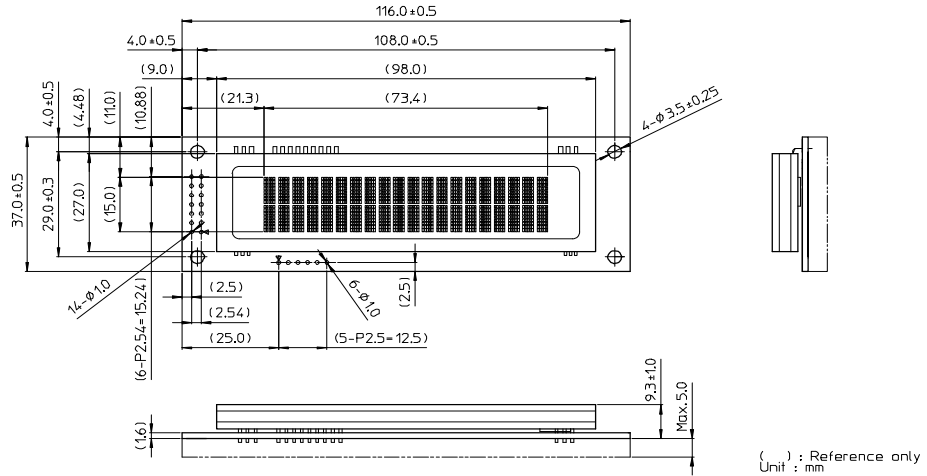
# CU20027-YX100

SIMPLIFIED DATASHEET

### Features

20 character x 2 line display.  
 Brightness up to 3.5 times higher (3500cd/m<sup>2</sup>) for improved visibility outdoors.

### Physical dimension



### Specifications

#### Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply Voltage	VCC	4.75	5.00	5.25	VDC	-

#### Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Condition	
				#1: Brightness 100%	#2: Brightness 400%
'L' Logic Input Current D0-D7, /WR, /RESET	IIL	-	-	-0.15	mA VIN=0V
'H' Logic Input Current D0-D7 /WR, /RESET	I <sub>IH1</sub> I <sub>IH2</sub>	-	-	5.0 0.25	μA VIN=5V
Logic input resistance SIN	RIN	3	-	-	KΩm
'L' Logic Input Voltage D0-D7, /WR /RESET SIN	VIL1 VIL2 VIL3	0 0 -15	-	0.2VCC 0.8 0.5	VDC
'H' Logic Input Voltage D0-D7, /WR, /RESET SIN	VIH1 VIH2	0.8VCC 3.0	-	VCC +15	VDC
'L' Logic Output Voltage PBUSY SBUSY	VOL1 VOL2	- 0	-	0.1 0.5	VDC IOL=50 μA RL = 3KΩm
'H' Logic Output Voltage PBUSY SBUSY	VOH1 VOH2	VCC-0.1 4.0	-	- VCC	VDC IOH=-50 μA RL = 3KΩm
Power Supply Current #1	ICC1-1	-	230	300	mADC Display ON
Power Supply Current #1	ICC2-1	-	200	250	mADC Display OFF
Power Supply Current #2	ICC1-3	-	420	540	mADC Display ON
Power Supply Current #2	ICC2-3	-	300	390	mADC Display OFF
Power Supply Current 3	ICC3	-	25	35	mADC Disp. Pwer OFF
Power Consumption #1	-	-	1.15	1.5	W Display ON
Power Consumption #2	-	-	2.1	2.7	W Display ON

#### Optical Characteristics

Parameter		Condition	
		#1: Brightness 100%	#2: Brightness 400%
Luminance	350 cd/m <sup>2</sup> Min.		
	#1 875 cd/m <sup>2</sup> Typ.		
	#2 3500 cd/m <sup>2</sup> Typ.		
Color of illumination	Green (Blue-Green)		

#### Environmental Conditions

Parameter	Condition
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Storage Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (Non operation)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (Non operation)	392m/s <sup>2</sup> (40G) 9ms X-Y-Z, 3 times each direction

#### Physical Specifications

Parameter	Condition
Number of Char.	40 (20 characters x 2 lines)
Built-in Fonts	5x8 ANK, International font
Display Area	73.4 x 14.97 mm (X x Y)
Character Size	2.72 x 7.19 mm (X x Y)
Character Pitch	3.72 mm
Line pitch	7.81 mm
Weight	About 48 g

#### Interface

Parallel (CMOS), Asynchronous Serial (RS232)

#### Pin Assignment (Parallel)

Pin No.	Signal	Pin No.	Signal
1	GND	2	Vcc
3	PBUSY	4	/RESET
5	/WR	6	NC
7	D0(LSB)	8	D1
9	D2	10	D3
11	D4	12	D5
13	D6	14	D7(MSB)

#### (Serial)

Pin No.	Signal	Baud Rate Setting
1	Vcc	9600bps
2	SIN	19200bps
3	GND	38400bps*
4	SBUSY	115200bps
5	NC	(*factory default)
6	/RESET	

#### Functions

Parameter
Highlight Function
Font Magnification
Horizontal scroll mode
Blink ON/OFF
Power save mode
Screen saver
Cursor, Underline ON/OFF
User Font function
etc.



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