

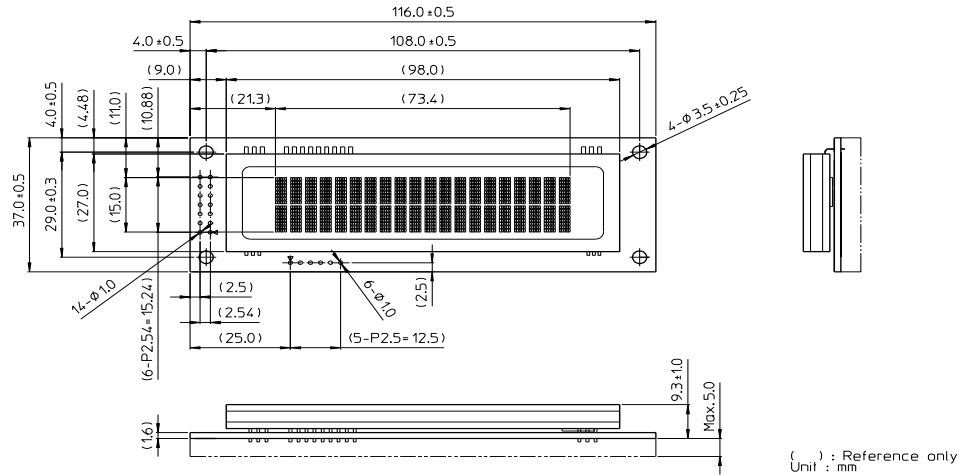
CU20027-YX1A

SIMPLIFIED DATASHEET

■ Features

20 character x 2 line display.
 Brightness up to 3.5 times higher (3500cd/m²) for improved visibility outdoors.

■ Physical dimension



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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.	#1: Brightness 400%		#2: Brightness 100%	
				Max.	Unit	Max.	Unit
'L' Logic Input Current							
D0-D7, /WR, /RESET	IIL1	-	-	-0.15	mA	VIN=0V	
SIN, SCK	IIL2	-	-	-0.55	mA	VIN=0V	
'H' Logic Input Current							
D0-D7, SIN, SCK	IiH1	-	-	5.0	μA	VIN=5V	
/WR, /RESET	IiH2	-	-	0.25	μA	VIN=5V	
'L' Logic Input Voltage							
D0-D7, /WR, SIN, SCK	VIL1	0	-	0.2VCC	VDC	-	
/RESET	VIL2	0	-	0.8	VDC	-	
'H' Logic Input Voltage							
D0-D7, /WR, /RESET, SIN, SCK	VIH	0.8VCC	-	VCC	VDC	-	
'L' Logic Output Voltage							
PBUSY	VOL1	-	-	0.1	VDC	IOL=50 μA	
SBUSY	VOL2	-	-	0.45	VDC	IOL=200 μA	
'H' Logic Output Voltage							
PBUSY	VOH1	VCC-0.1	-	-	VDC	IOH=-50 μA	
SBUSY	VOH2	VCC-0.5	-	VCC	VDC	IOH=-200 μA	
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	ICC1-2	-	420	540	mADC	Display ON	
Power Supply Current #2	ICC2-2	-	300	390	mADC	Display OFF	
Power Supply Current 3	ICC3	-	25	35	mADC	Disp. Power OFF	
Power Consumption #1		-	1.15	1.5	W	Display ON	
Power Consumption #2		-	2.1	2.7	W	Display ON	

■ Optical Characteristics

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

■ Environmental Conditions

Parameter	Value
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 ² (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	Value
Number of Char.	40 (20 characters x 2 lines)
Built-in Fonts	5 x 8 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), Sync/Asynchronous Serial (CMOS)

■ 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	Pin No	Signal	Baud Rate Setting
1	Vcc	1	Vcc	9600bps
2	SIN	2	SIN	19200bps
3	GND	3	GND	38400bps*
4	SBUSY	4	SBUSY	115200bps
5	SCK	5	NC	(*:Default setting)
6	/RESET	6	/RESET	

■ Functions

Parameter	Value
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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