

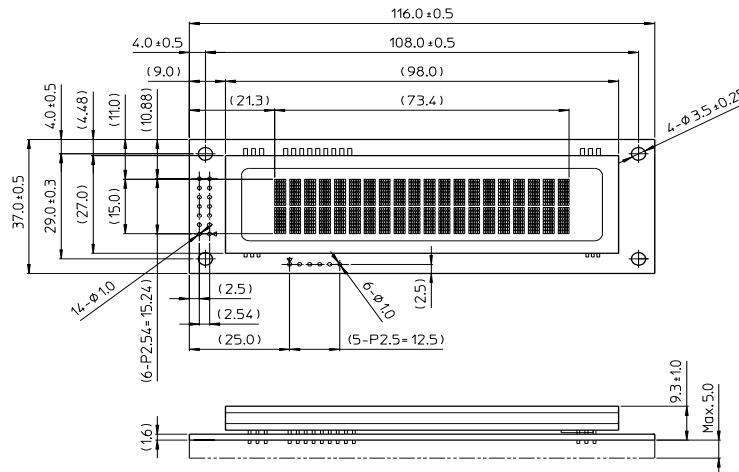
CU20027-YX100

SIMPLIFIED DATASHEET

■ Features

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

■ Physical dimension



() : Reference only
 Unit : mm

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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.	Max.	Unit	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	IIH1	-	-	5.0	μA	VIN=5V		
	IIH2	-	-	0.25	μA	VIN=5V		
Logic input resistance SIN	RIN	3	-	-	KOhm	-		
'L' Logic Input Voltage D0-D7, /WR /RESET SIN	VIL1	0	-	0.2VCC	VDC	-		
	VIL2	0	-	0.8	VDC	-		
	VIL3	-15	-	0.5	VDC	-		
'H' Logic Input Voltage D0-D7, /WR, /RESET SIN	VIH1	0.8VCC	-	VCC	VDC	-		
	VIH2	3.0	-	+15	VDC	-		
'L' Logic Output Voltage PBUSY SBUSY	VOL1	-	-	0.1	VDC	IOL=50 μA		
	VOL2	0	-	0.5	VDC	RL = 3KOhm		
'H' Logic Output Voltage PBUSY SBUSY	VOH1	VCC-0.1	-	-	VDC	IOH=-50 μA		
	VOH2	4.0	-	VCC	VDC	RL = 3KOhm		
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		#1	#2
Luminance		350 cd/m ² Min.	875 cd/m ² Typ.
		3500 cd/m ² Typ.	
Color of illumination		Green (Blue-Green)	

■ Environmental Conditions

Parameter	
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		*ANK(Alphabet, Numeric, Kana)
Number of Char.	40 (20 characters × 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), 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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