



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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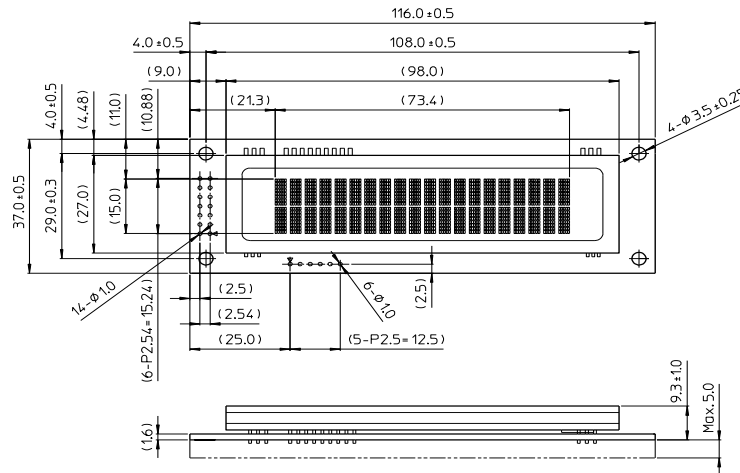
CU20027-YX100

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.	#1: Brightness 400%		#2: Brightness 100%	
				Max.	Unit	Max.	Unit
'L' Logic Input Current D0-D7, /WR, /RESET	IIL	-	-	-0.15	mA	VIN=0V	
'H' Logic Input Current D0-D7 /WR, /RESET	I IH1 I IH2	-	-	5.0 0.25	μA	VIN=5V	
Logic input resistance SIN	RIN	3	-	-	KOhm	-	
'L' Logic Input Voltage D0-D7, /WR /RESET SIN	VIL1 VIL2 VIL3	0	-	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	-	-	0.1 0.5	VDC	IOL=50 μA RL = 3KOhm	
'H' Logic Output Voltage PBUSY SBUSY	VOH1 VOH2	VCC-0.1 4.0	-	- VCC	VDC	IOH=-50 μA 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: Brightness 200%		#2: Brightness 100%	
		Min.	Typ.	Min.	Typ.
Luminance		350 cd/m ² Min.		875 cd/m ² Typ.	
	#1	875 cd/m ² Typ.		3500 cd/m ² Typ.	
	#2	3500 cd/m ² 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 ² (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	Value
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	Function
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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