



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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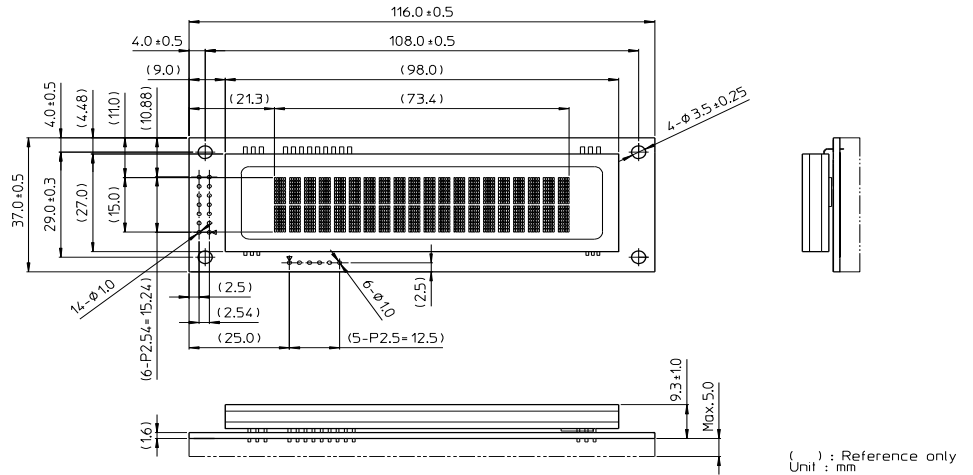
CU20027-YX1A

SIMPLIFIED DATASHEET

Features

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

Physical dimension



Get full specification
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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	#1: Brightness 400%		#2: Brightness 100%	
	Min.	Typ.	Min.	Typ.
Luminance	350 cd/m ²	Min.	875 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 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	Function
Highlight Function	Highlight Function
Font Magnification	Font Magnification
Horizontal scroll mode	Horizontal scroll mode
Blink ON/OFF	Blink ON/OFF
Power save mode	Power save mode
Screen saver	Screen saver
Cursor, Underline ON/OFF	Cursor, Underline ON/OFF
User Font function	User Font function
etc.	etc.



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