

CU22042-Y1A

SIMPLIFIED DATASHEET

Features

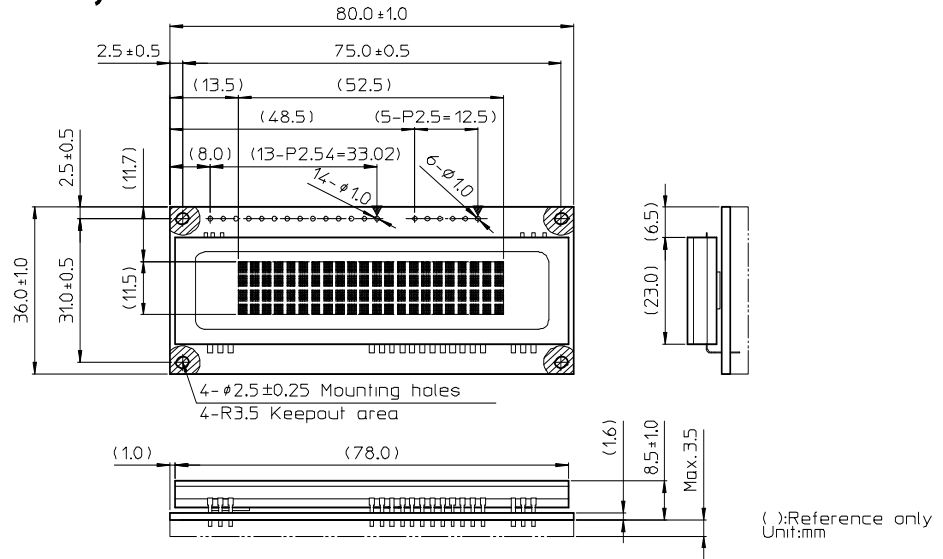
22 character x 4 line display.
 Display 2.75 times more information, in around the same compact size as CU-U series or LCD module.

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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.	Max.	Unit	Condition	#1: Brightness 200% #2: Brightness 100%	
'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	-	180	230	mADC	Display ON		
Power Supply Current #1	ICC2-1	-	170	210	mADC	Display OFF		
Power Supply Current #2	ICC1-2	-	220	270	mADC	Display ON		
Power Supply Current #2	ICC2-2	-	190	240	mADC	Display OFF		
Power Supply Current 3	ICC3	-	18	25	mADC	Disp. Power OFF		
Power Consumption #1		-	0.9	1.15	W	Display ON		
Power Consumption #2		-	1.1	1.35	W	Display ON		

Optical Characteristics

Parameter	#1: Brightness 200% #2: Brightness 100%	
Luminance	350 cd/m ² Min.	
	#1 1000 cd/m ² Typ.	
	#2 2000 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.	88 (22 characters x 4 lines)
Built-in Fonts	5 x 8 ANK, International font
Display Area	52.48 x 11.5 mm (X x Y)
Character Size	1.66 x 2.348 mm (X x Y)
Character Pitch	2.42 mm
Line pitch	3.05 mm
Weight	About 31 g

Interface

Parallel (CMOS), Sync/Asynchronous Serial (CMOS)

Pin Assignment (Parallel)

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