Noritake itron

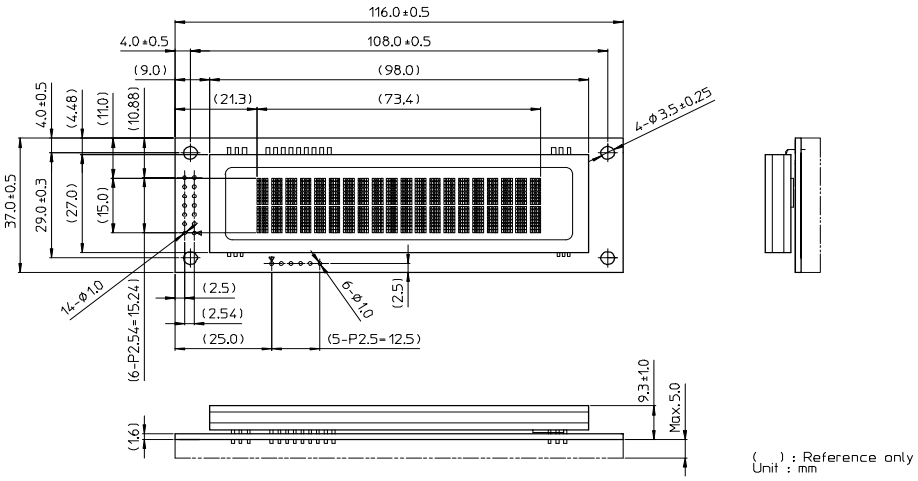
CU20027-Y100

SIMPLIFIED DATASHEET

■ Features

20 character x 2 line display.
Compact, with large character display.

■ 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

#1: Brightness 100% #2: Brightness 200%

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
'L' Logic Input Current						
D0-D7, /WR, /RESET	IIL	–	–	-0.15	mA	VIN=0V
'H' Logic Input Current						
D0-D7	IIH1	–	–	5.0	μA	VIN=5V
/WR, /RESET	IIH2	–	–	0.25	μA	VIN=5V
Logic input resistance						
SIN	RIN	3	–	–	KOhm	–
'L' Logic Input Voltage						
D0-D7, /WR	VIL1	0	–	0.2VCC	VDC	–
/RESET	VIL2	0	–	0.8	VDC	–
SIN	VIL3	-15	–	0.5	VDC	–
'H' Logic Input Voltage						
D0-D7, /WR,/RESET	VIH1	0.8VCC	–	VCC	VDC	–
SIN	VIH2	3.0	–	+15	VDC	–
'L' Logic Output Voltage						
PBUSY	VOL1	–	–	0.1	VDC	IOL=50μA
SBUSY	VOL2	0	–	0.5	VDC	RL = 3KOhm
'H' Logic Output Voltage						
PBUSY	VOH1	VCC-0.1	–	–	VDC	IOH=-50μA
SBUSY	VOH2	4.0	–	VCC	VDC	RL = 3KOhm
Power Supply Current #1	ICC1-1	–	240	300	mADC	Display ON
Power Supply Current #1	ICC2-1	–	200	250	mADC	Display OFF
Power Supply Current #2	ICC1-2	–	320	400	mADC	Display ON
Power Supply Current #2	ICC2-2	–	250	310	mADC	Display OFF
Power Supply Current 3	ICC3	–	25	35	mADC	Disp. Pwer OFF
Power Consumption #1		–	1.2	1.5	W	Display ON
Power Consumption #2		–	1.6	2.0	W	Display ON

■ Optical Characteristics

#1: Brightness 100% #2: Brightness 200%

Parameter		
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	
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/s2 (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	5x8 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
1	Vcc
2	SIN
3	GND
4	SBUSY
5	NC
6	/RESET

Baud Rate Setting
9600bps
19200bps
38400bps*
115200bps
(*:factory default)

■ 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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