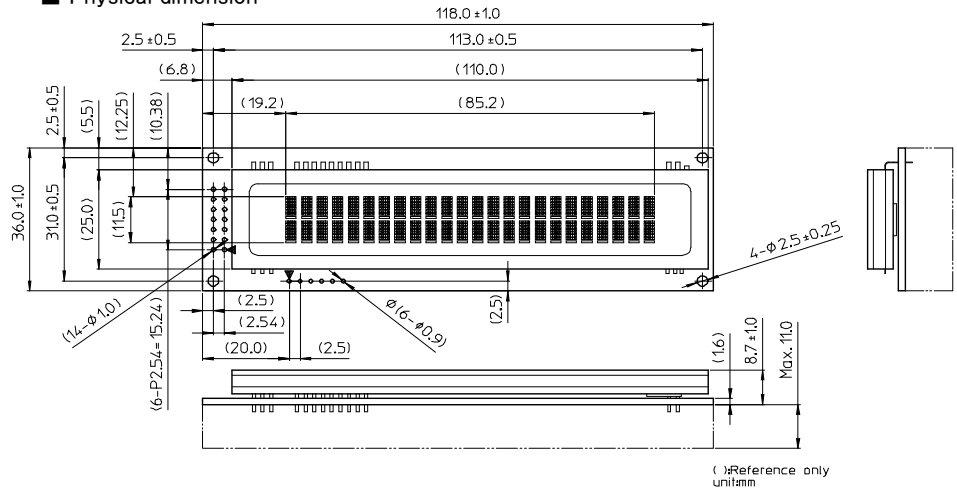Noritake itron®

CU24025-UW1J

SIMPLIFIED DATASHEET

■ Features

24 character x 2 line display. A good balance between display size and amount of text display.

■ Physical dimension

( )：Reference only
unit：mm

Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Input Voltage						
DB0–DB7, RS,R/W(WR),	VIH1	2.0	–	VCC	VDC	VCC-VSS= 5.0 V
E(RD),SCK, STB	VIL1	VSS	–	0.8		
Logic Input Voltage	VIH2	0.7VCC	–	VCC	VDC	VCC-VSS= 5.0 V
SI/SO	VIL2	VSS	–	0.3VCC		
Logic Input Voltage	VIH3	0.8VCC	–	VCC	VDC	VCC-VSS= 5.0 V
/RESET	VIL3	VSS	–	0.2VCC		
Power supply Voltage	VCC-VSS	4.75	5.00	5.25	VDC	–

■ Electrical Characteristics

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Output Voltage	'H'	VOH	VCC-0.8	–	–	VDC	IOH = −4 mA
	'L'	VOL	–	–	0.6		IOL = 4 mA
	'H'	VOH	VCC-0.5	–	–	VDC	IOH = −2 mA
	'L'	VOL	–	–	0.5		IOL = 2 mA
Power Supply Current 1		ICC1	–	165	215	mA	Display ON
Power Supply Current 2		ICC2	–	13	25	mA	Display OFF
Power Consumption			–	0.825	1.075	W	Display ON

■ Optical Characteristics

Parameter	
Luminance	350 cd/m² Min.
Color of illumination	Green (Blue–Green)

■ Environmental Conditions

Parameter	
Operating Temperature	−40 ~ +85 degrees celsius
Storage Temperature	−50 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non–condensing)
Vibration (Non operation)	10–55–10Hz, all amplitude 1mm, 30 minutes, X–Y–Z
Shock (Non operation)	539m/s² (55G) 10ms

■ Physical Specifications

Parameter	*ANK(Alphabet, Numeric, Kana)
Number of char.	48 (24 x 2)
Built–in Fonts	5x7 ANK, International
Display area	85.2 x 11.5 mm (X x Y)
Character size	2.4 x 4.7 mm (X x Y)
	Underline is not included.
Character pitch	3.6 mm
Line pitch	6.1 mm
Weight	About 47 g

■ Interface

8bit/4bit Parallel(TTL), Synchronous Serial (CMOS)

■ Pin Assignment (Parallel)

Pin No.	Signal	Pin No.	Signal
1	GND	2	VCC
3	NC	4	RS
5	R/W(WR)	6	E(RD)
7	DB0	8	DB1
9	DB2	10	DB3
11	DB4	12	DB5
13	DB6	14	DB7

(Synchronous Serial)

Pin No.	Signal
1	VCC
2	SI/SO
3	GND
4	STB
5	SCK
6	NC

■ Functions

Parameter
Command compatible with HD44780 LCD controller
Display ON/OFF
Brightness Control
Cursor ON/OFF
8 User definable character font
etc.

RoHS COMPLIANT

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