Noritake itron

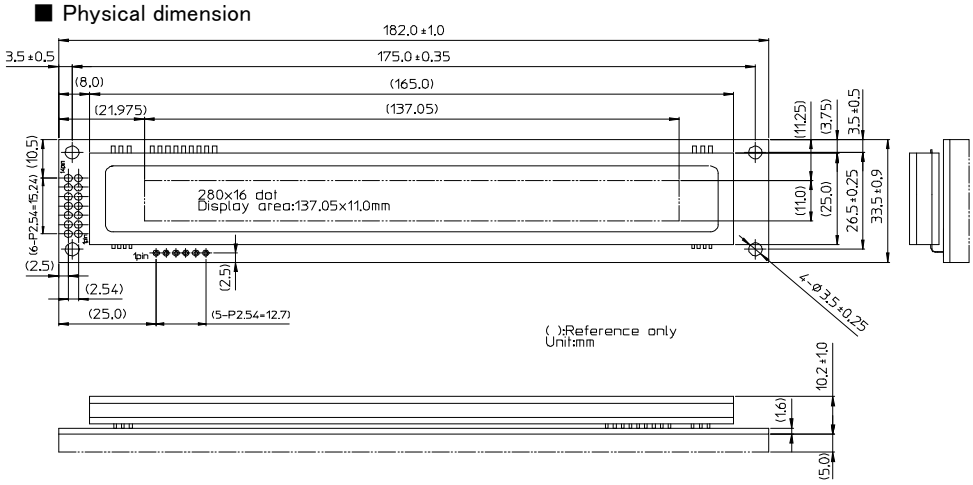
GU280X16G-7000

SIMPLIFIED DATASHEET

■ Features

Slim external dimension size.
A good fit for devices that need to keep height down.
With a long-width type VFD, this is also good for longer text, or messages display, etc.

■ 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
'L' Logic Input Current						
D0-D7,/WR,/RD	IIL1	–	–	-0.15	mA	VIN=0V
/RESET	IIL2	–	–	-0.6	mA	VIN=0V
'H' Logic Input Current						
D0-D7,/WR,/RD,/RESET	IIH	–	–	1.0	μADC	VIN=5V
Logic Input Voltage	VIH	0.8VCC	–	VCC	VDC	–
D0-D7,/WR,/RD,/RESET	VIL	0	–	0.2VCC	VDC	–
Logic Output Voltage	VOH	3.8	–	VCC	VDC	IOH=-1.5mA
D7(Busy flag), PBUSY	VOL	0	–	0.6	VDC	IOL=1.6mA
Logic input resistance						
SIN	RIN	3	–	–	KΩ	–
Logic Input Voltage	VIH	3.0	–	+15	VDC	–
SIN	VIL	-15	–	0.5	VDC	–
Logic Output Voltage	VOH	4.0	–	VCC	VDC	RL=3KΩ
SBUSY	VOL	0	–	0.5	VDC	RL=3KΩ
Power Supply Current 1	ICC-1	–	400	520	mADC	All dots ON
Power Supply Current 2	ICC-2	–	330	430	mADC	All dots OFF
Power Supply Current 3	ICC-3	–	25	35	mADC	Display power OFF
Power Consumption		–	2.0	2.6	W	All dots ON

■ Optical Specifications

Parameter	
Number of Dots	4,480 (280 x 16)
Character numbers	40 x 2 / Max46 x 2 by 5 x 7 dot ANK
Display Area	137.05 mm x 11.0 mm
Dot Size (X x Y)	0.34 mm x 0.5 mm
Dot Pitch (X x Y)	0.49 mm x 0.7 mm
Luminance	350 cd/m^2 Min. (500 cd/m^2 Typ.)
Color of illumination	Green (Blue-Green)

■ Environmental Specifications

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-operating)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (non-operating)	392m/s^2 (40G) 9ms X-Y-Z, 3 times each direction

■Character display

Parameter		*ANK(Alphabet, Numeric, Kana)
Character font type	5x7	ANK, International font
Character width	Fixed/Proportional character format 1&2	
Attribution	Character magnify, Reverse	
Weight	About 75 g	

■ Interface

Parallel(CMOS), Asynchronous Serial (RS232)

■ Pin Assignment (Parallel)

Pin No.	Signal	Pin No.	Signal
1	GND	2	Vcc
3	NC	4	RS
5	/WR	6	/RD
7	D0	8	D1
9	D2	10	D3
11	D4	12	D5
13	D6	14	D7(PBUSY)

(Asynchronous Serial)

Pin No.	Signal
1	Vcc
2	SIN
3	GND
4	SBUSY
5	NC
6	/RESET

Baud Rate Setting
9600bps
19200bps
38400bps*
115200bps
(*:Default setting)

■ Functions

Parameter
Control command
Scroll display action
Proportional Font function
User-Windows function
AND/OR/XOR Mixture display
Reverse display
Bit image display
Character download function
etc.

RoHS COMPLIANT

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