GU128X32D-7000B

SIMPLIFIED DATASHEET

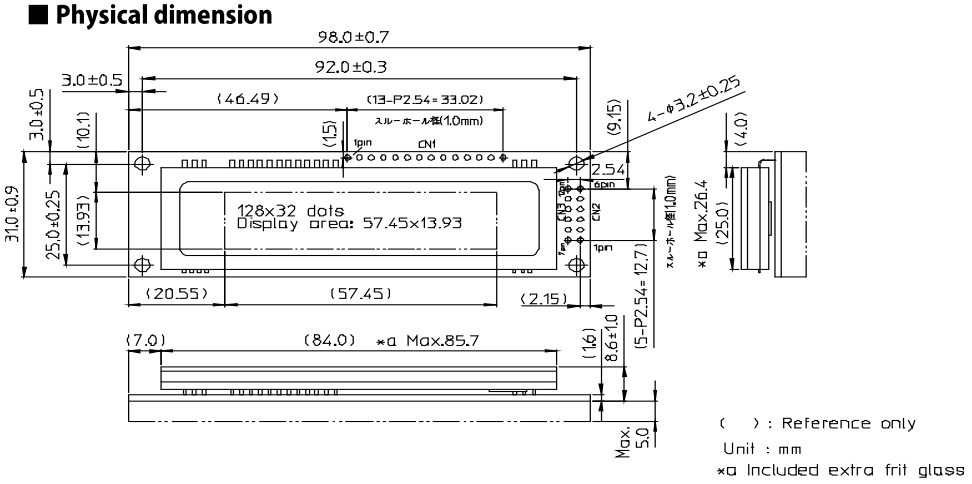
■ Features

Compact size VFD module that can display 4 lines of information.
Perfect for where a lot of information is to be shown, but without taking up too much space.

Get full specification

Click here to go to request form.

■ 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	-	280	370	mADC	All dots ON
Power Supply Current 2	ICC-2	-	230	300	mADC	All dots OFF
Power Supply Current 3	ICC-3	-	11	15	mADC	Display power OFF
Power Consumption		-	1.4	1.9	W	All dots ON

■ Optical Specifications

Parameter	
Luminance	350 cd/m^2 Min. (800 cd/m^2 Typ.)
Color of illumination	Green (Blue-Green)

■ Environmental Specifications

Parameter	
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-60 ~ +85 degrees (Under 168 hours)/-40 ~ +85 degrees (Or more)
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/s2 (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	
Number of Dots	4,096 (128 x 32)
Display Area	57.45 mm x 13.93 mm
Dot Size (X x Y)	0.30 mm x 0.29 mm
Dot Pitch (X x Y)	0.45 mm x 0.44 mm
Weight	About 34 g

■ Interface

Parallel(CMOS), Asynchronous Serial (RS232)

■ Pin Assignment (Parallel)

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

(Asynchronous Serial)

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

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

■ Selectable Font

Parameter		
Character font type	5 x 7	ANK, International
Character width	Fixed/Proportional character format 1&2	
Character numbers	18 x 4 by 5 x 7 dot ASCII	
	21 x 4 by 5 x 7 dot Proportional	

■ Functions

Parameter
Control command
Scroll display action
Proportional Font function
User-Windows function
AND/OR/XOR Mixture display
Reverse display
Dot unit real-time bit image display
Download character function
Font Magnification function
etc.

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