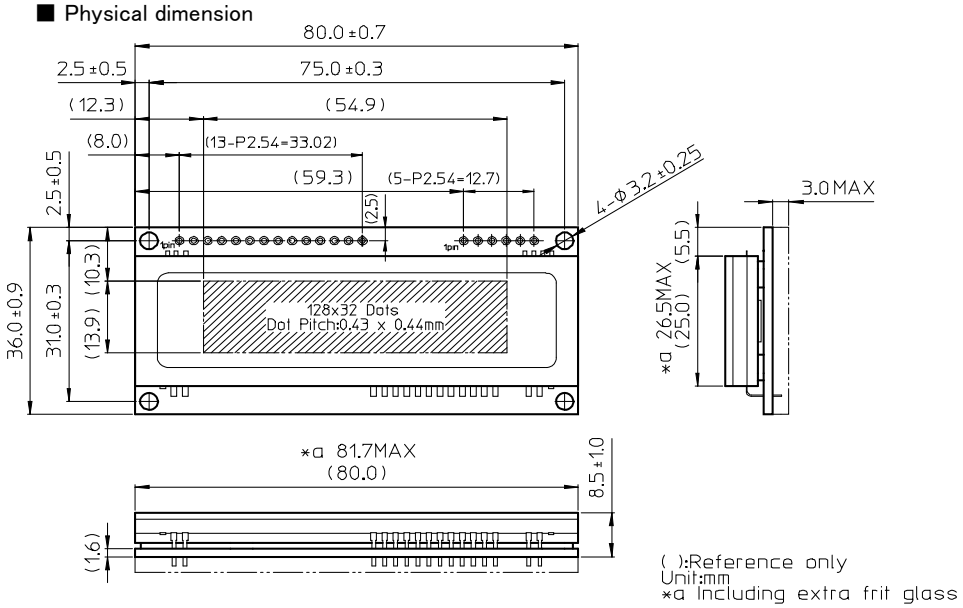
GU128X32D-7050

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. Further, the external PCB size is similar to 2x16LCD and GU112x16G, etc. 128x32 dots in a more compact package.

■ 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	–	290	380	mADC	All dots ON
Power Supply Current 2	ICC-2	–	240	320	mADC	All dots OFF
Power Supply Current 3	ICC-3	–	22	40	mADC	Display power OFF
Power Consumption		–	1.45	1.9	W	All dots ON

■ Optical Specifications

Parameter	
Number of Dots	4,096 (128 x 32)
Character numbers	18 x 4 / Max21 x 4 by 5 x 7 dot ANK
Display Area	54.89mm x 13.93 mm
Dot Size (X x Y)	0.28mm x 0.29 mm
Dot Pitch (X x Y)	0.43 mm x 0.44 mm
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	-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	5 x 7 ANK, International font
Character width	Fixed/Proportional character format 1&2
Attribution	Character magnify, Reverse
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

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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