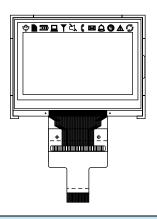




Character Size

128 x 64 Graphic LCD



FEATURES

• Type: Graphic

• Display format: 128 x 64 dots

• Built-in controller: Sitronix ST7565-F3

• Duty cycle: 1/64

• + 3.3 V power supply (4 times boosted voltage)

• Compliant to RoHS directive 2002/95/EC



MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module Dimension	65.0 x 84.0 x 1.9				
Viewing Area	52.0 x 33.5				
Dot Size	0.35 x 0.40	mm			
Dot Pitch	0.37 x 0.42] '''''			
Mounting Hole	N/a				

N/a

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
IIEW	STIVIBOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V_{DD} to V_{SS}	2.6	3.0	3.5	V	
Input Voltage	VI	- 0.3	-	V_{DD}		

Note

• $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL		STANDARD VALUE				
		CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltage	V_{DD}	L level	0.8 V _{DD}	-	V_{DD}	V	
	V _{IO}	H level	-	-	-	V	
Supply Current	I _{DD}	V _{DD} = + 5 V	-	-	-	mA	
	V _{DD} to V ₀	- 20 °C	-	-	10.5	V	
Recommended LC Driving		0 °C	-	-	-		
Voltage for Normal Temperature		25 °C	-	8.4	-		
Version Module		50 °C	7.0	-	-		
		70 °C	-	-	-		
LED Forward Voltage	V _F	25 °C	-	-	-	V	
LED Forward Current	I _F	25 °C	-	-	-	mA	
CCFL	V _F	25 °C	-	-	-	Vms	
	I _F	25 °C	-	-	-	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	-	mA	

OPTION	OPTIONS								
	PROCESS COLOR					BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	х	х		Х		Х		х	

For detailed information, please see the "Product Numbering System" document.

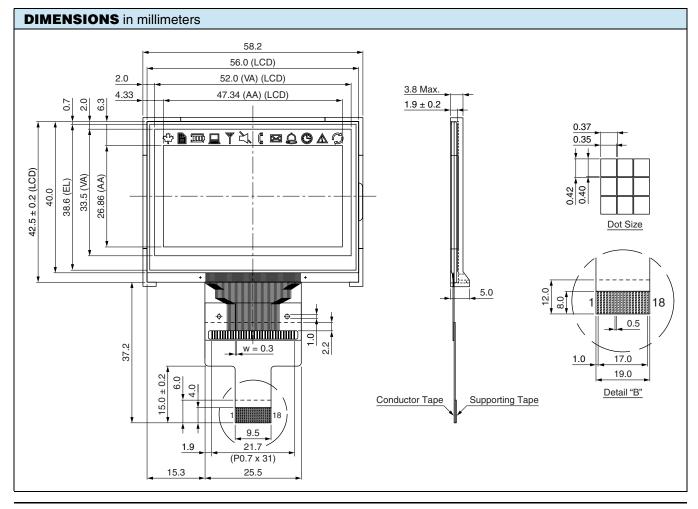
Document Number: 37344 Revision: 16-Mar-09

Vishay

128 x 64 Graphic LCD



INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{DD}	Power supply for logic			
2	V _{SS}	Ground			
3	CS1B	Chip select input pin			
4	CS2	Chip select input pin			
5	RES	Reset			
6	RS	Register select signal			
7	R/W	H: Read signal/L: Write signal			
8	E	H → Enable signal			
9	DB0	Data bus line			
10	DB1	Data bus line			
11	DB2	Data bus line			
12	DB3	Data bus line			
13	DB4	Data bus line			
14	DB5	Data bus line			
15	DB6	Data bus line			
16	DB7	Data bus line			
17	MI	H: 6800 series/L: 8080 series			
18	P/S	H: Parallel/L: Serial			





Vishay

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Revision: 18-Jul-08

Document Number: 91000 www.vishay.com