WINSTAR Display

OLED SPECIFICATION

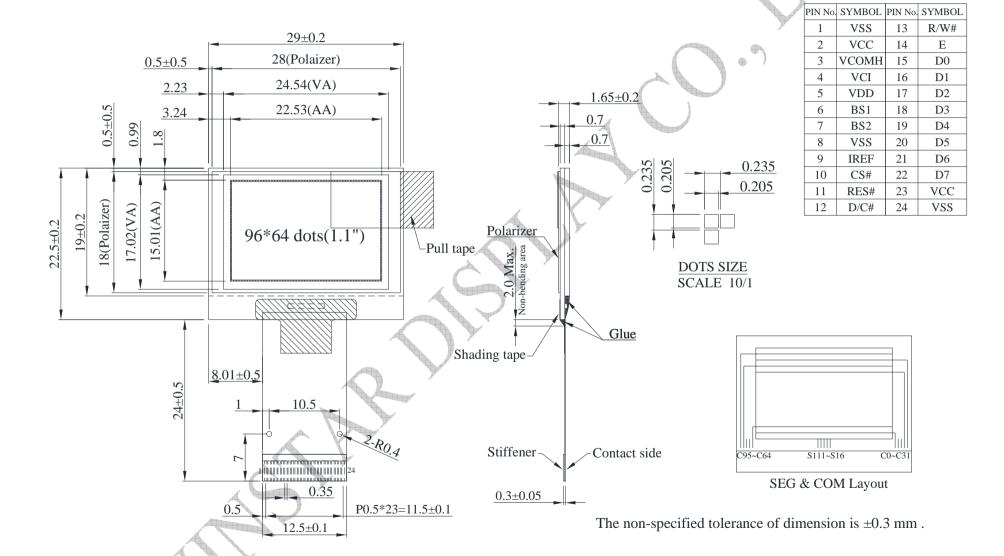
Model No:

WEO009664B-ZIF

General Specification

Item	Item Dimension				
Dot Matrix	96 x 64 Dots	-			
Module dimension	29.00 x 22.50 x 1.65	mm			
Active Area	22.53 x 15.01	mm			
Pixel Size	0.205 x 0.205	mm			
Pixel Pitch	0.235 x 0.235	mm			
Display Mode	Passive Matrix				
Display Color	Monochrome				
Drive Duty	1/64 Duty				
IC	SSD1327				
Interface	4-Wire SPI, I2C, 6800, 8080				
Size	1.1 inch				

Contour Drawing & Block Diagram



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WEO009664B-ZIF

第3頁,共6頁

Interface Pin Function

No.	Symbol	Function				
1	VSS	Ground pin. It must be connected to external ground.				
2	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin. It is supplied by external high voltage source.				
3	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS. No external power supply is allowed to connect to this pin.				
4	VCI	Low voltage power supply and power supply for interface logic level. It should match with the MCU interface voltage level and must be connected to external source. VCI must always set to be equivalent to or higher than VDD.				
5	VDD	Power supply pin for core logic operation.				
6	BS1	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS2, BS1 and BS0 are pin select. Bus Interface selection BS[2:1] Interface 00 4 line SPI 01 I2C				
7	BS2	11 8-bit 8080 parallel 10 8-bit 6800 parallel Note (1) 0 is connected to VSS (2) 1 is connected to VCI				
8	VSS	Ground pin. It must be connected to external ground.				
9	IREF	This pin is the segment output current reference pin				
10	CS#	This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW (active LOW).				
11	RES#	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin pull HIGH during normal operation.				
12	D/C#	This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the data at D[7:0] will be interpreted as data. When the pin is pulled LOW, the data at D[7:0] will be transferred to a command register. In I2C mode, this pin acts as SA0 for slave address selection. When 3-wire serial interface is selected, this pin must be connected to VSS.				
13	R/W#	This pin is read / write control input pin connecting to the MCU interface. When 6800 interface mode is selected, this pin will be used as Read/Write (R/W#) selection input. Read mode will be carried out when this pin is pulled HIGH and write mode when LOW. When 8080 interface mode is selected, this pin will be the Write (WR#) input. Data write operation is initiated when this pin is pulled LOW and the chip is selected.				

		This pin is MCU interface input.
		When 6800 interface mode is selected, this pin will be used as the Enable (E)
		signal.
		Read/write operation is initiated when this pin is pulled HIGH and the chip is
14	E	selected.
		When 8080 interface mode is selected, this pin receives the Read (RD#)
		signal. Read operation is initiated when this pin is pulled LOW and the chip is
		selected.
		When serial or I2C interface is selected, this pin must be connected to VSS.
15	D0	
16	D1	These pins are bi-directional data bus connecting to the MCU data bus.
17	D2	Unused pins are recommended to tie LOW.
18	D3	When serial interface mode is selected, D0 will be the serial clock input:
19	D4	SCLK; D1 will be the serial data input: SDIN and D2 should be kept NC.
20	D5	When I2C mode is selected, D2, D1 should be tied together and serve as
21	D6	SDAout, SDAin in application and D0 is the serial clock input, SCL.
22	D7	
23	VCC	Power supply for panel driving voltage. This is also the most positive power
		voltage supply pin. It is supplied by external high voltage source.
24	VSS	Ground pin.

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Operation	VCI	-0.3	4.0	V
Supply Voltage for Logic	VDD	-0.5	2.75	V
Supply Voltage for Display	VCC	-0.5	19.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Logic	VCI		2.8	3.0	3.3	V
Supply Voltage for Display	VCC		8.0	8.5	9.0	V
Input High Volt.	VIH	-	0.8×VCI	_	VCI	٧
Input Low Volt.	VIL	_	VSS	_	0.2×VCI	٧
Output High Volt.	VOH	_	0.9×VCI	_	VCI	V
Output Low Volt.	VOL	_	VSS	_	0.1×VCI	V
50% Check Board operating Current	ICC	VCC=8.5V	_	13.0	26.0	mA