WINSTAR Display

OLED SPECIFICATION

Model No:

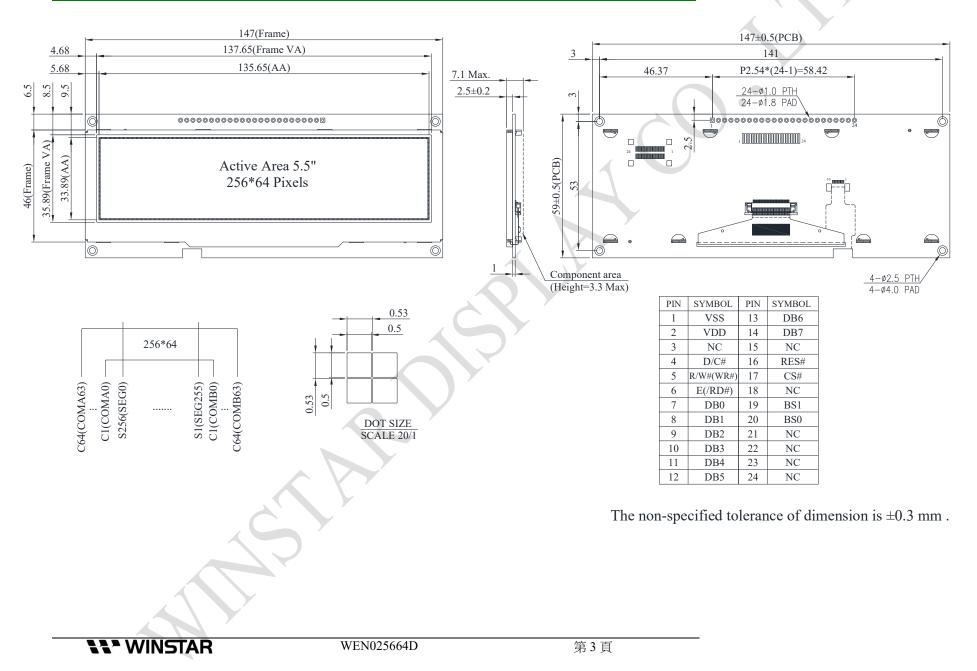
WEN025664D

General Specification

Item	Dimension	Unit				
Dot Matrix	256 x 64 Dots	-				
Module dimension	147.0 × 59 × 2.5	mm				
Active Area	135.65 x 33.89	mm				
Pixel Size	0.50 x 0.50	mm				
Pixel Pitch	0.53 x 0.53	mm				
Display Mode	Passive Matrix					
Display Color	Monochrome					
Drive Duty	1/64 Duty					
Gray scale	4 bits					
IC	SSD1322					
Interface	6800, 8080, SPI					
Size	5.5 inch					

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Contour Drawing & Block Diagram



Interface Pin Function

Pin Number	Symbol	I/O	Function
1	VSS	Р	Ground.
2	VDD	Р	Power Supply for Core Logic Circuit Power supply pin for core logic operation. A capacitor is required to connect between this pin and VSS
3	N.C.	Р	Reserved Pin The N.C. pin between function pins are reserved for compatible and flexible design.
4	D/C#	Ι	Data/Command Control This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the content at D[7:0] will be interpreted as data. When the pin is pulled LOW, the content at D[7:0] will be interpreted as command.
5	R/W# (WR#)	Ι	Read/Write Select or Write This pin is MCU interface input. When interfacing to a 68XX-series microprocessor, this pin will be used as Read/Write (R/W#) selection input. Pull this pin to "High" for read mode and pull it to "Low" for write mode. When 80XX interface mode is selected, this pin will be the Write (WR# input. Data write operation is initiated when this pin is pulled low and th CS# is pulled low. When serial mode is selected, this pin must be connected to VSS.
6	E(/RD#)		Read/Write Enable or Read This pin is MCU interface input. When interfacing to a 68XX-series microprocessor, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled high and the CS# is pulled low. When connecting to an 80XX-microprocessor, this pin receives the Read (RD#) signal. Data read operation is initiated when this pin is pulled low and CS# is pulled low. When serial mode is selected, this pin must be connected to VSS.
7~14	DB0 DB1 DB2 DB3 DB4 DB5 DB6 DB7	- I/O	Host Data Input/Output Bus These pins are 8-bit bi-directional data bus to be connected to the microprocessor's data bus. When serial mode is selected, D1 will be the serial data input SDIN and D0 will be the serial clock input SCLK.
15	NC	Р	Reserved Pin The N.C. pin between function pins are reserved for compatible and flexible design.
16	RES#	Ι	This pin is reset signal input.

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	Keep this pin pull HIGH during normal operation.							
		Data/Command Control						
17	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.					
			Reserved Pin					
18	NC	Р	The N.C. pin between function pins are reserved for compatible and					
			xible design.					
19	BS1	_	mmunicating Protocol Select					
			These pins are MCU interface selection input. See the following table:					
			BS[1:0] Bus Interface Selection					
			00 4 line SPI					
20	DOA	Ι	01 3 line SPI					
20	BS0		10 8-bit 8080 parallel					
			11 8-bit 6800 parallel					
			Note					
			(1) 0 is connected to VSS					
21	NC		(2) 1 is connected to VDD					
	NC		No connection					
22			No connection					
23	NC	—	No connection					
24	NC		No connection					
	6							

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Display	VDD	-0.3	4	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	VDD		2.8	3.0	3.3	V
High Level Input	VIH	-	0.8×VDD		VDD	V
Low Level Input	VIL		0		0.2×VDD	V
High Level Output	VOH		0.9×VDD		VDD	V
Low Level Output	VOL		0		0.1×VDD	V
Display 50% Pixel on	IDD	VDD =3V	_	240	400	mA