WINSTAR Display

OLED SPECIFICATION

Model No:

WEO012864Y

WINSTAR

WEO012864Y

General Specification

ltem	Dimension	Unit	
Dot Matrix	128 x 64	_	
Module dimension	45.24 x 29.14 x 2.01	mm	$\langle \cdot \rangle$
Active Area	35.05 x 17.51	mm 🖌	
Pixel Size	0.249 x 0.249	mm	
Pixel Pitch	0.274 x 0.274	mm	
Display Mode	Passive Matrix		
Display Color	Monochrome		
Drive Duty	1/64 Duty		
IC	SSD1309		
Interface	6800,8080,4-wire SPI,I20		
Size	1.54 inch		



Interface Pin Function

No.	Symbol	Function						
1	NC(GND)	No connection						
2	VLSS	This is an analog ground pin						
3	VSS	Ground.						
4	NC	No connection	No connection					
5	VDD	Power supply pin fc	Power supply pin for core logic operation					
6	BS1	ACU bus interface selection pins. Select appropriate logic setting as lescribed in the following table. BS2 and BS1 are pin select						
6	DOT		B\$1	BS2	\sim			
		12C	1	0				
		4-wire Serial	0	0				
		8-bit 68XX Parallel	0	1				
7	BS2	8-bit 80XX Parallel	1	1				
	7 BS2	Note (1) 0 is connected to (2) 1 is connected to	A-9833					
8	CS#		This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled					
9	RES#	When the pin is pull	his pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Geep this pin pull HIGH during normal operation.					
		This pin is Data/Cor	his pin is Data/Command control pin connecting to the MCU. hen the pin is pulled HIGH, the data at D[7:0] will be interpreted as ata. hen the pin is pulled LOW, the data at D[7:0] will be transferred to a mmand register. I2C mode, this pin acts as SA0 for slave address selection. hen 3-wire serial interface is selected, this pin must be connected to					
10	D/C#	data. When the pin is pull command register. In I2C mode, this pi When 3-wire serial VSS.	n acts as S interface is	he data at SA0 for sla s selected,	D[7:0] will be transferred to a ave address selection.			

12	E/RD#	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 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.
13-20	D0~D7	These pins are bi-directional data bus connecting to the MCU data bus. Unused pins are recommended to tie LOW. When serial interface mode is selected, D0 will be the serial clock input: SCLK; D1 will be the serial data input: SDIN and D2 should be kept NC. When I2C mode is selected, D2, D1 should be tied together and serve as SDAout, SDAin in application and D0 is the serial clock input, SCL.
21	IREF	This pin is the segment output current reference pin. IREF is supplied externally.
22	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.
23	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin.
24	NC(GND)	No connection

Absolute Maximum Ratings

Parameter	Symbol	Min	Мах	Unit
Supply Voltage for Logic	VDD	-0.3	4.0	V
Supply Voltage for Display	VCC	0	15.0	
Operating Temperature	TOP	-40	+70	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

ltem	Symbol	Condition	Min	🖌 Тур	Max	Unit
Supply Voltage for Logic	VDD	_	2.8	3.0	3.3	V
Supply Voltage for Display	VCC	A	12.0	12.5	13.0	V
High Level Input	VIH	C-X	0.8×VDD	_		V
Low Level Input	VIL) (C)			0.2×VDD	V
High Level Output	VOH	× –	0.9×VDD	_		V
Low Level Output	VOL	_			0.1×VDD	V
50% Check Board operatir	g Current	VCC =12.5V		16.0	24.0	mA