WINSTAR Display

OLED SPECIFICATION

Model No:

WEO012832D

General Specification

ltem	Dimension	Unit			
Dot Matrix	128 × 32 Dots	-			
Module dimension	30.0 × 11.5 × 1.26	mm			
Active Area	22.384 × 5.584	mm			
Pixel Size	0.152 × 0.152	mm			
Pixel Pitch	0.175 × 0.175	mm			
Display Mode	Passive Matrix				
Display Color	Monochrome				
Drive Duty	1/32 Duty				
IC	SSD1306BZ				
Interface	4-wire SPI				
Size	0.91 inch				

WINSTAR

Contour Drawing & Block Diagram



Interface Pin Function

Symbol	Function					
C2P	Positive Terminal of the Elving Inverting Conseiter Negative Terminal of the					
C2N	Positive Terminal of the Flying Inverting Capacitor Negative Terminal of the Flying Boost Capacitor The charge-pump capacitors are required between the terminals. They must be floated when the converter is not used.					
C1P						
C1N						
VBAT	Power Supply for DC/DC Converter Circuit This is the power supply pin for the internal buffer of the DC/DC voltage					
	converter. It must be connected to external source when the converter is used. It should be connected to VDD when the converter is not used.					
	Ground of Logic Circuit					
VSS	This is a ground pin. It acts as a reference for the logic pins. It must be connected to external ground.					
	Power Supply for Logic					
VDD	This is a voltage supply pin. It must be connected to external source.					
	Chip Select					
CS#	This pin is the chip select input. The chip is enabled for MCU communication					
	only when CS# is pulled low.					
9 RES#	Power Reset for Controller and Driver					
	This pin is reset signal input. When the pin is low, initialization of the chip is					
	executed.					
	Data/Command Control					
	This pin is Data/Command control pin.					
D/C#	When the pin is pulled high and serial interface mode is selected, the data at					
	SDIN is treated as data. When it is pulled low, the data at SDIN will be					
	transferred to the command register. In I2C mode, this pin acts as SAU for					
0011/	slave address selection.					
	when serial mode is selected, DT will be the serial data input SDIN and DU					
SDIN	Will be the serial clock input SOLK.					
IDEE	This pip is sogmost current reference pip A resister should be connected					
	between this pin and VSS . Set the current lower than 12 5uA					
	Voltage Output High Level for COM Signal					
VCOMH	This pin is the input pin for the voltage output high level for COM signals. A					
	capacitor should be connected between this pin and VSS					
	Power Supply for OFL Panel					
	This is the most positive voltage supply pin of the chip. A stabilization					
VCC	capacitor should be connected between this pin and VSS when the converter					
,	is used. It must be connected to external source when the converter is not					
	used.					
	Symbol C2P C2N C1P C1N VBAT VSS VDD CS# RES# D/C# SDIN IREF VCOMH					

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	0	4.0	V
Supply Voltage for Display	VCC	0	16.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

1 DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Мах	Unit
Supply Voltage for Logic	VDD	X-	2.8	3.0	3.3	V
Supply Voltage for Display	VCC		7	7.25	8	V
Input High Volt.	VIH	_	0.8×VDD	_	VDDIO	V
Input Low Volt.	VIL	_	0	_	0.2×VDD	V
Output High Volt.	VOH	_	0.9×VDD	_	VDDIO	V
Output Low Volt.	VOL	_	0	_	0.1×VDD	V
Operating Current for VCC (VCC Supplied Externally)	ICC	Vcc =7.25V	—	7	11	mA

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