OLED DISPLAY SPECIFICATION





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Model No: REX025664D

General Specification

The Features is described as follow:

- Module dimension: 99.20 x 33.50 x 2.01 mm
- Active area: 87.52 x 21.28 mm
- Dot Matrix: 256 x 64 Dots
- Pixel Size: 0.312 x 0.303 mm
- Pixel Pitch: 0.342 x 0.333 mm
- Display Mode: Passive Matrix
- Duty: 1/64 Duty
- Gray Scale: 4 bits
- Display Color: Monochrome
- IC: SSD1322
- Interface: 6800,8080,SPI
- Size: 3.55 inch

Interface Pin Function

	Symbol	1/0	Function					
1	ESD_GND	Р	Ground					
2	VSS	Р	Ground.					
3	VCC	Р	Power supply for panel driving voltage. This is also the most positive power voltage supply pin.					
4	VCOMH	Р	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.					
5	VLSS	Р	Analog system ground pin.					
6~13	D7~D0	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.					
14	E/RD#	Ι	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					
15	R/W#	I	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 the CS# is pulled low. When serial mode is selected, this pin must be connected to VSS.					
16 17	BS0 BS1	Ι	Communicating Protocol Select These pins are MCU interface selection input. See the following table: BS[1:0] Bus Interface Selection 00 4 line SPI 01 3 line SPI 10 8-bit 8080 parallel 11 8-bit 6800 parallel Note (1) 0 is connected to VSS					

	D/C#	Ι	Data/Command Control		
18			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.		
10		-	Data/Command Control		
19	CS#	1	This pin is the chip select input connecting to the MCU. The chip is		
•			enabled for MCU communication only when CS# is pulled LOW.		
			I his pin is reset signal input.		
20	KES#	1	When the pin is pulled LOW, initialization of the chip is executed.		
			Keep this pin pull HIGH during normal operation.		
21	FR	0	This pin is No Connection pins. Nothing should be connected to this pin.		
			This pin should be left open individually.		
22	IDEE	т	Current Reference for Brightness Adjustment		
22	IKEF	1	I his pin is segment current reference pin. A resistor should be		
			Connected between this pin and VSS. Set the current lower than TouA.		
22			Reserved PIII The N.C. pip between function pipe are recorded for competible and		
23	N.C.	-	The N.C. pin between function pins are reserved for compatible and		
			Rewar Supply for I/O Bin		
24	VDDIO	Р	It should be matched with the MCU interface voltage level		
			Rever Supply for Coro Logic Circuit		
25	חחע	р	Power supply for core logic operation A capacitor is required to		
23	VDD	Г	connect between this nin and V/SS		
			Power Supply for Operation		
26	VCI	Р	VCI must always be equal to or higher than VDD and VDDIO		
			Voltage Output Low Level for SEG Signal		
	VSL	Р	This is segment voltage reference pin.		
27			When external VSL is not used, this pin should be left open.		
27			When external VSL is used, this pin should connect with resistor and		
			diode to ground.		
	VLSS	À	Ground of Analog Circuit		
28		Р	These are the analog ground pins. They should be connected to VSS		
			externally.		
		Verne	Power Supply for OLED Panel		
29	VCC	P	These are the most positive voltage supply pin of the chip. They must be		
		1	connected to external source.		
30	ESD GND	Р	Ground		
	\mathbf{Y}				



Contour Drawing & Block Diagram

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.5	2.75	V
Low voltage power supply	VCI	-0.3	4.0	V
Power supply for I/O pins	VDDIO	-0.5	VCI	
Supply Voltage for Display	VCC	-0.5	20.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

ltem	Symbol	Condition	Min	Тур	Max	Unit
Low Voltage power supply	VCI	2-	3.1	3.3	3.5	V
Supply Voltage for Display	VCC		15.5	16.0	16.5	V
Logic supply voltage	VDD	¥	2.4	_	2.6	V
Power for I/O pins	VDDIO	_	1.65	_	VCI	V
High Level Input	VIH	_	0.8×VDDIO	_	VDDIO	V
Low Level Input	VIL	_	0	—	0.2×VDDIO	V
High Level Output	VOH	_	0.9×VDDIO	—	VDDIO	V
Low Level Output	VOL	_	0	_	0.1×VDDIO	V
50% Check Board operatir	VCC =16V	_	35	55	mA	