



OLED SPECIFICATION

Model No:

REX009632B

General Specification

The Features is described as follow:

■ Module dimension: 19.80 x 12.32 x 1.21 mm

Active area: 16.298 x 5.418 mm

■ Dot Matrix: 96 x 32

■ Dot size: 0.148 x 0.148 mm

Dot pitch: 0.17 x 0.17 mm

■ Display Mode: Passive Matrix

■ Duty: 1/32 Duty

■ Display Color: OLED, Monochrome

■ Controller IC: SSD1305

■ Interface: 6800,8080,SPI,I2C

■ Size: 0.68 inch



Interface Pin Function

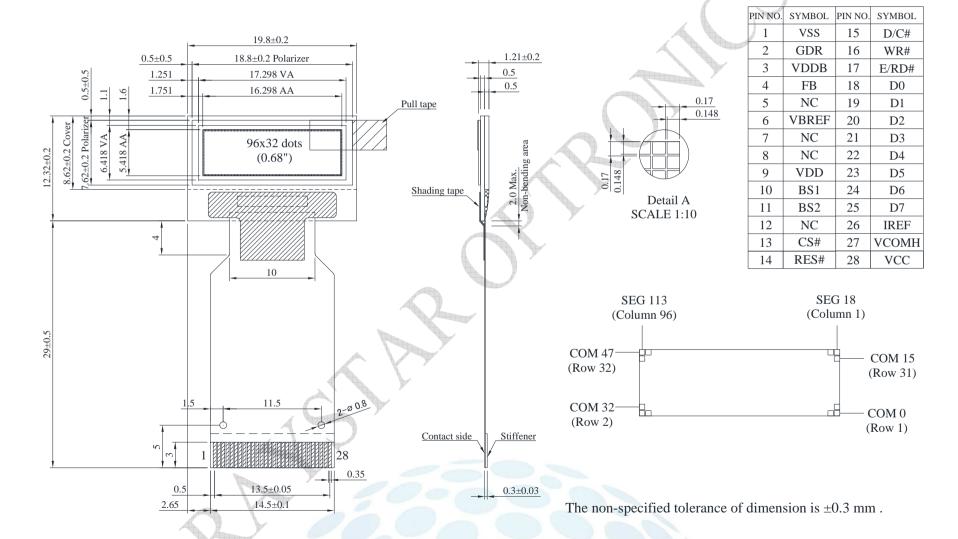
Pin	Symbol	I/O	Function					
1	VSS	-	Reserved Pin(Supporting Pin) The supporting pins can reduce the influences from stresses on the function pins. These pins must be connected to external ground.					
2	GDR	-	Reserved pin, not connected.					
3	VDDB	Р	Reserved pin, not connected.					
4	FB	-	Reserved pin, not connected.					
5	NC	-	Not connected.					
6	VBREF	-	Reserved pin, not connected.					
7	NC	-	Not connected.					
8	NC	-	Not connected.					
9	VDD	Р	Power supply pin for core logic operation.					
10	BS1	Ι ,	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS2, and BS1 are pin select.					
11	BS2		4-line SPI I2C 8-bits 8080 8-bits 6800 BS1 0 1 1 0 BS2 0 0 1 1					
12	NC	-	Not connected.					
13	CS#	I	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).					
14	RES#	1	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin HIGH (i.e. connect to VDD) during normal operation.					
15	D/C#	I	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.					



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16	WR#	I	This is read / write control input pin connecting to the MCU interface. When interfacing to a 6800-series microprocessor, this pin will be used as Read/Write (R/W#) selection input. Read mode will be carried out when this pin is pulled HIGH (i.e. connect to VDD) 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. When serial or I2C interface is selected, this pin must be connected to VSS.
17	E/RD#	I	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.
18~25	D0~D7	These are 8-bit bi-directional data bus to be connemicroprocessor's data bus. When serial interface reselected, D0 will be the serial clock input: SCLK; D	
26	IREF	-	This is segment output current reference pin. When external IREF is used, a resistor should be connected between this pin and VSS to maintain the IREF current at 30uA.
27	VCOMH		COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.
28	VCC	1	Power supply for panel driving voltage. This is also the most positive power voltage supply pin. When charge pump is enabled, a capacitor should be connected between this pin and VSS.



Contour Drawing & Block Diagram





Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4	V
Supply Voltage for Display	VCC	0	18	V
Operating Temperature	TOP	-40	+70	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Characteristics

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Item	Symbol	Condition	Min	Тур	Max	Unit			
Supply Voltage for Logic	VDD	_	2.8	3.0	3.3	V			
Supply Voltage for Display	VCC	-	11.5	12	12.5	V			
High Level Input	VIH	-08	0.8×VDD)(VDD	V			
Low Level Input	VIL	05	0	0	0.2×VDD	V			
High Level Output	VOH	lout = 100uA	0.9×VDD	0-(VDD	\			
Low Level Output	VOL	lout = 100uA	0	- 9	0.1×VDD	V			