

SPECIFICATION

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OLED SPECIFICATION

Model No:

REX009632B-ZIF

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

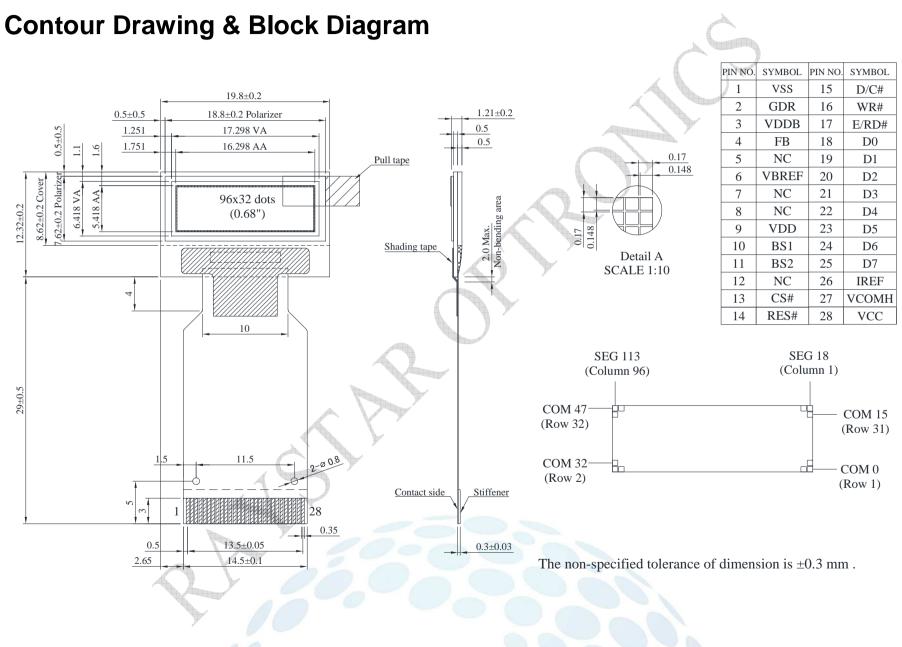
Pin S	Symbol	I/O	Function						
1	VSS	-	Reserved Pin(Supporting Pin) The supporting pins can reduce the influences from stresses on the function pins. These pins must be connected to external ground.						
2	GDR	-	Reserved pin, not connected.						
3	VDDB	Р	Reserved	d pin, not cor	nected.		×		
4	FB	-	Reserved	d pin, not cor	nected.	\frown			
5	NC	-	Not conn	ected.					
6 V	/BREF	-	Reserved	d pin, not cor	nnected.				
7	NC	-	Not conn	ected.					
8	NC	-	Not conn	ected.	\				
9	VDD	Р	Power su	Power supply pin for core logic operation.					
10	BS1	1	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS2, and BS1 are pin select.						
	201	1	as descri						
		·					1 are pin sele		
11	BS2		BS1	bed in the fo 4-line SPI 0	llowing table	. BS2, and BS	1 are pin sele		
		5		bed in the fo 4-line SPI 0 0	llowing table	. BS2, and BS	1 are pin sele		
11	BS2		BS1 BS2 Not conn This pin i The chip	bed in the fo <u>4-line SPI</u> 0 0 ected. s the chip se	Ilowing table	. BS2, and BS	are pin selected and a se	ct.	
11 12 13	BS2 NC		BS1 BS2 Not conn This pin i The chip pulled LC This pin i initializati	bed in the fo 4-line SPI 0 0 ected. s the chip set is enabled fo DW (active L0 s reset signal	Ilowing table I2C 1 0 Ilect input co or MCU com OW). Il input. Whe p is execute	BS2, and BS	A are pin select 8-bits 6800 0 1 MCU. When CS# is lied LOW,	ct.	



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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 connected to the microprocessor's data bus. When serial interface mode is selected, D0 will be the serial clock input: SCLK; D1 will be the serial data input: SDIN. 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.
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 10uA.
27	VCOM H	A	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.
28	VCC	0	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.
R	5		

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Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4	V
Supply Voltage for Display	VCC	0	16	V
Operating Temperature	TOP	-40	+80	℃°
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Characteristics

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	-/0	0.8×VDD)(VDD	V
Low Level Input	VIL	00	0	Ú(0.2×VDD	V
High Level Output	VOH	lout = 100uA	0.9×VDD		VDD	V
Low Level Output	VOL	lout = 100uA	0	-	0.1×VDD	V

Ì	Symbol	Parameter	Min.	Тур.	Max.	Unit	Condition
	ICC	VCC Supply Current	-	5.0	7.5	mA	VDD =3.0V , Display 100% ON