



OLED SPECIFICATION

Model No:

REX012832K

General Specification

The Features is described as follow:

■ Module dimension: 59.0 x 18.86 x 1.41 mm

■ Active area: 50.535 ×10.695 mm

■ Dot Matrix: 128 x 32

■ Pixel size: 0.370 x 0.310 mm

■ Pixel pitch: 0.395 × 0.335 mm

■ Display Mode: Passive Matrix

■ Duty: 1/32 Duty

■ Display Color: Monochrome

■ IC: SSD1315

■ Interface: 8Bits 68xx 80xx/ SPI/ I2C

■ Size: 2.0 inch



Interface Pin Function

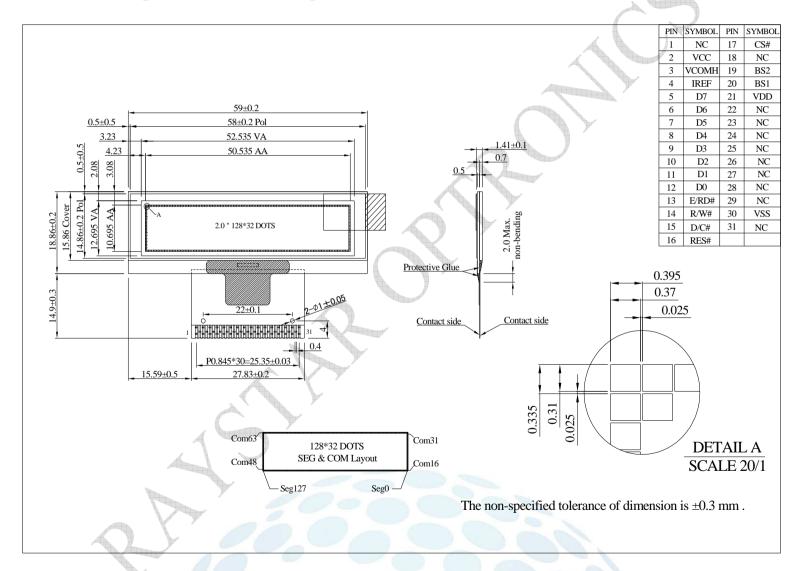
No.	Symbol	Function							
1	NC	No connection							
2	VCC	Power supply for panel driving voltage. This is also the most positive powvoltage supply pin. When charge pump is enabled, a capacitor should be connected between pin and VSS.							
3	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.							
4.	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.							
5	D7								
6	D6								
7	D5	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.							
8	D4								
9	D3								
10	D2								
11	D1	obritati, obritari in application and bo is the serial clock input, col.							
12	D0								
13	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.							
14	R/W#	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. This pin is Data/Command control pin connecting to the MCU.							
15	D/C#	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.							



16	RES#	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.						
		This pin is the chip select input connecting to the MCU.						
17	CS#	The chip is enabled for MCU communication only when CS# is pul						
		(active LOW).						
18	NC	No connection						
19	BS2	MCU bus interface selection pins. Select appropriate logic setting as						
	502			, BS1 and BS0 are pin select				
		BS[2:0]	Interface					
		000	4 line SPI					
		001	3 line SPI					
		010	I2C	· · · · · · · · · · · · · · · · · · ·				
20	BS1	110	8-bit 8080 parallel					
		100	8-bit 6800 parallel					
		Note						
		(1) 0 is connected to VSS						
		(2) 1 is connected to VDD						
21	VDD	Power supply p	in for core logic opera	ation.				
21		This is a voltage supply pin. It must be connected to external source.						
22	NC							
23	NC							
24	NC							
25	NC	No connection						
26	NC	INO connection						
27	NC							
28	NC							
29	NC							
30	VSS	Ground pin. It must be connected to external ground.						
31	NC	No connection						
	Van.	1						



Contour Drawing & Block Diagram



Page 5. Total 6 Pages



Absolute Maximum Ratings

Unless otherwise specified, VSS= 0V

 $(Ta = 25^{\circ}C)$

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD	-0.3	1	4	V
Supply Voltage for Display	VCC	0	1	18	>
Operating Temperature	TOP	-40	-	+80	ပို
Storage Temperature	TSTG	-40	-	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Unless otherwise specified, VSS = 0V, VDD = 2.8 - 3.3V (Ta = 25°C)

Offices office wise specified, voo = 0v, vbb = 2.0 0.5v (1a = 25 0)							
lte	ems	Symbol	Min	Тур	Max	Unit	
Supply Voltage	Logic	VDD	2.8	3.0	3.3	V	
	Operating	vcc	7.5	8.0	8.5	V	
Input Voltage	High Voltage	V _{IH}	0.8 x V _{DD}		VDD	V	
	Low Voltage	V_{IL}	0		0.2 x VDD	>	
Output Voltage	High Voltage	V_{OH}	0.9x V _{DD}	-	VDD	V	
	Low Voltage	V _{OL}	0	-	0.1 x VDDIO	V	

Symbol	Parameter	Min	Тур	Max	Unit	Condition
ICC	VCC Supply Current	-	11	22	1 TT14	VDD=3V , VCC=8.0, Display 50% ON