



OLED SPECIFICATION

Model No:

REP012832AWPP3L00000

1.General Specification

The Features is described as follow:

■ Module dimension: 66.5 x 35.0 x 10.55(Max)

Active area: 55.018 x 13.098 mm

■ Dot Matrix: 128 x 32

■ Pixel size: 0.408 x 0.388 mm

■ Pixel pitch: 0.43 x 0.41 mm

Display Mode: Passive Matrix

Duty: 1/32 Duty

Display Color: White

■ IC: SSD1305Z

■ Interface: 6800, 8080, SPI, I2C

CTP Interface:I2C

■ SIZE:2.23 inch



Interface Pin Function

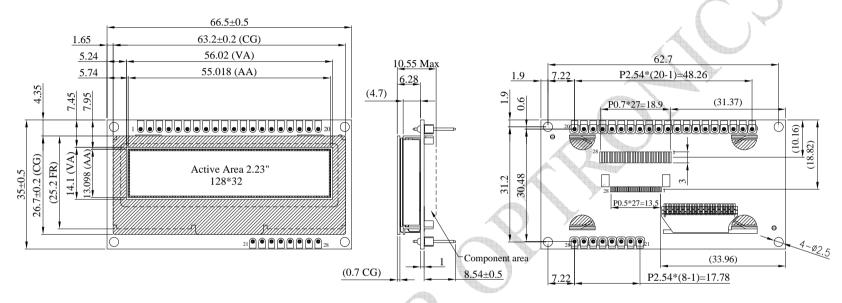
No.	Symbol	Function
1	VSS	Ground.
2	VDD	Power supply pin for core logic operation.
3	V0	Keep float (i.e. disable). Power supply for panel driving voltage. This is also the most positive power voltage supply pin.
4	D/C#	This is Data/Command control pin. When it is pulled HIGH (i.e. connect to VDDIO), the data at D[7:0] is treated as data. When it is pulled LOW, the data at D[7:0] will be transferred to the command register. In I2C mode, this pin acts as SA0 for slave address selection.
5	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 VDDIO) 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 interface is selected, this pin must be connected to VSS.
6	E/RD#	When interfacing to a 6800-series microprocessor, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled HIGH (i.e. connect to VDDIO) and the chip is selected. When connecting to an 8080-microprocessor, this pin receives the Read (RD#) signal. Read operation is initiated when this pin is pulled LOW and the chip is selected. When serial interface is selected, this pin must be connected to VSS.
	4	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
7~14	DB0~DB7	input: SCLK; D1 will be the serial data input: SDIN and D2 should be left opened. When I2C mode is selected, D2, D1 should be tied
2		together and serve as SDAout, SDAin in application and D0 is the serial clock input, SCL.
15	CS#	This pin is the chip select input. (active LOW)
16	RES#	This pin is reset signal input. When the pin is LOW, initialization of the chip is executed. Keep this pin HIGH (i.e. connect to VDDIO) during normal operation.

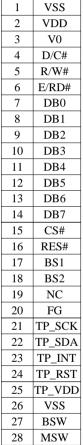


		Communicating Protocol Select. These pins are MCU interface selection input. See the following table:					
17,18	BS2,BS1		68XX-parallel	80XX-parallel	Serial	I2C	
		BS1	0	1	0	1	
		BS2	1	1	0	0	
19	N.C.	No connection.					
20	FG(GND)	Ground.					
21	TP_SCK	I2C Clock					
22	TP_SDA	I2C Data					
23	TP_INT	Interrupt Output This pin is used as the dedicated interrupt output signal.					
24	TP_RST	Hardware Reset This pin is to reset hardware for this chip.					
25	TP_VDD	Power supply pin for only touch panel (3.3V).					
26	VSS	Ground.					
27	BSW	Control the Piezoelectric Buzzer.					
28	MSW	Control the BLDC Vibration Motor.					



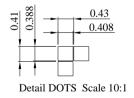
Contour Drawing & Block Diagram

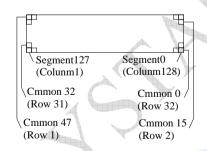


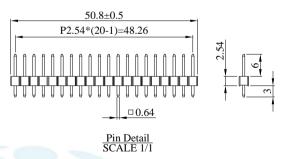


PIN

SYMBOL







The non-specified tolerance of dimension is ± 0.3 mm.



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4.0	V
Supply Voltage for Display	V0	0	16.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD		3.2	3.3	3.5	V
Supply Voltage for Display	VO	_	12.0	12.5	13.0	V
Input High Volt.	VIH	_	0.8×VDD		VDD	V
Input Low Volt.	VIL	50	0		0.2×VDD	V
Output High Volt.	VOH	IOUT = 100uA, 3.3MHz	0.9×VDD	9	VDD	V
Output Low Volt.	VOL	IOUT = 100uA, 3.3MHz	0		0.1×VDD	V
Operating Current for VDD	IDD	V0 =12.5V	-	90	120	mA
Supply Voltage for Buzzer	BSW	VDD=5.0V 1/2 square	0.8×VDD	_	VDD	V
Supply Voltage for Vibration Motor	MSW	_	2.7	_	3.3	V