

Mechanical Data

Item	Dimension	Unit
Module dimension	73.00×41.86×2.0	mm
View Area	63.41×32.69	mm
Active Area	61.41×30.69	mm
Dot Size	0.45×0.45	mm
Dot Pitch	0.48×0.48	mm

Absolute Maximum Rating

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Logic	VDD	-0.3	3.5	V	1, 2
Supply Voltage for Display	VCC	8	16	V	1, 2

Electronical Characteristics

Characteristics	Symbol	Conditions	Min	Typ	Max	Unit
Supply Voltage for Logic	VDD	—	2.4	2.7	3.5	V
Supply Voltage for Display	VCC	—	14.5	15	15	V
High Level Input	VIH	IOUT= 100μA, 3.3MHz	0.8×VDD	—	VDD	V
Low Level Input	VIL	IOUT= 100μA, 3.3MHz	0	—	0.2×VDD	V
High Level Output	VOH	IOUT= 100μA, 3.3MHz	0.9×VDD	—	VDD	V
Low Level Output	VOL	IOUT= 100μA, 3.3MHz	0	—	0.1×VDD	V
Operating Current for VDD	IDD	Note 4	—	250	400	μA
		Note 5	—	250	400	μA
Operating Current for VCC	ICC	Note 4	—	31	39	mA
		Note 5	—	53	66	mA
Sleep Mode Current for VDD	IDD, SLEEP	—	—	10	μA	
Sleep Mode Current for VCC	ICC, SLEEP	—	—	10	μA	

Note 3: Brightness (Lv) and Supply Voltage for Display (Vcc) are subject to the change of the panel characteristics and the customer's request.
 Note 4: VDD = 2.7V, VCC = 15V, 50% Display Area Turn on.
 Note 5: VDD = 2.7V, VCC = 15V, 100% Display Area Turn on.

Feature

- 128 x 64 dots
- Option: RET012864DYPP3N00001
outline size: 70.90x41.86 mm
- Built-in Controller SSD1305T7R1
- +3V power supply
- 1/64 duty cycle
- Interface: 6800, 8080, SPI, I2C
- Polarizer optional

Pin NO.	Symbol	Description			
1	VCC	Power supply for analog circuit.			
2	VCOMH	Com Voltage Output. A capacitor should be connected between this pin and VSS.			
3	IREF	Reference current input pin. A resistor should be connected between this pin and VSS.			
4~11	D7~D0	Data bus.			
12	E/RD#	Data read operation is initiated when it's pull low.			
13	R/W#	Data write operation is initiated when it's pull low.			
14	D/C#	Data/ Command control. Pull high for write/read display data. Pull low for write command or read status.			
15	RES#	Reset signal input. When it's low, initialization of SSD1305 is executed.			
16	CS#	Chip select input.			
17	BS2	Communicating Protocol Select These pins are MCU interface selection input. See the following table:			
			68XX-parallel	80XX-parallel	Serial
		BS1	0	1	0
		BS2	1	1	0
18	BS1				
19	VDD	Power supply for logic circuit.			
20	NC	No connection.			
21	VSS	Ground.			
22	VSS	Ground.			

OLED Graphic type

RET012864D OLED Graphic 128x64 dots

Dimension drawing

