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 x 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 lutput	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 (L_{BR}) and Supply Voltage for Display (V_{CC}) are subject to the change of the panel characteristics and the customer's request.
Note 4: V_{DD} = 2.7V, V_{CC} = 15V, 50% Display Area Turn on.
Note 5: V_{DD} = 2.7V, V_{CC} = 15V, 100% Display Area Turn on.

Feature

1. 128 x 64 dots
2. Option: RET012864DYPP3N00001 outline size: 70.90x41.86 mm
3. Built-in Controller SSD1305T7R1
4. +3V power supply
5. 1/64 duty cycle
6. Interface: 6800, 8080, SPI, I2C
7. 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:
18	BS1	68XX-parallel / 80XX-parallel / Serial BS1: 0 / 1 / 0 BS2: 1 / 1 / 0
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