

## Mechanical Data

Item	Dimension	Unit
Module dimension	89.70 × 47.2 × 3.4	mm
View area	63.41 × 32.69	mm
Active area	61.41 × 30.69	mm
Mounting hole	82.7 × 40.2	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	4	V	1, 2
Supply Voltage for Display	VCC	0	16	V	1, 2

## Electrical Characteristics

Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
VCC	Operating Voltage	-	8	12	16	V
VDD	Logic Supply Voltage	-	2.4	2.7	3.5	V
VOH	High Logic Output Level	IOUT = 100uA, 3.3MHz	0.9*VDD	-	VDD	V
VOL	Low Logic Output Level	IOUT = 100uA, 3.3MHz	0	-	0.1*VDD	V
VIH	High Logic Input Level	IOUT = 100uA, 3.3MHz	0.8*VDD	-	VDD	V
VIL	Low Logic Input Level	IOUT = 100uA, 3.3MHz	0	-	0.2*VDD	V
ISLEEP	Sleep mode Current	No loading	-	0.2	5	uA
ICC	VCC Supply Current VDD=2.7V, external VCC=12V, IREF=10uA, Frame rate=110Hz, All one pattern, Display on, no loading	Contrast = 7F	-	700	-	uA
IDD	VDD Supply Current VDD=2.7V, external VCC=12V, IREF=10uA, Frame rate=110Hz, All one pattern, Display on, no loading	Contrast = 7F	-	-	650	uA
ISEG	Segment Output Current VDD=2.7V, VCC=12V, IREF=10uA, Frame rate=110Hz, Display on, Segment pin under test is connected with a 20k resistive load to VSS	Contrast = 7F	270	300	370	uA
		Contrast = 5F	-	225	-	
		Contrast = 3F	-	150	-	
		Contrast = 1F	-	75	-	
Dev	Segment output current uniformly VDD=2.7V, VCC=12V, IREF=10uA, Contrast=7F	Adjacent pin	-	±2	-	%
Vcc	DC-DC converter output voltage	VDD input=3V, L=22uH; R1=450Kohm; R2=50Kohm; Icc = 20mA (loading)	10	-	12	V
		VDD input=3V, L=22uH; Vcc = 12V	-	-	400	mW

## Feature

- 128x64 dots
- Built-in Controller SSD1325T6R1
- +3V power supply
- 1/64 duty cycle
- Interface: 6800, 8080, SPI
- Polarizer optional

No.	Symbol	I/O	Description			
1	NC(GND)		Reserved Pin (Supporting Pin)			
2	VCC	P	Power Supply for OLED Panel			
3	VCOMH	P	Voltage Output High Level for COM Signal			
4	IREF	I	Current Reference for Brightness Adjustment			
5~12	D7~D0	I/O	Host Data Input/Output Bus			
13	E/RD#	I	Read/Write Enable or Read			
14	R/W#	I	Read/Write Select or Write			
15	D/C#	I	Data/Command Control			
16	RES#	I	Power Reset for Controller and Driver			
17	CS#	I	Chip Select			
18	NC		Reserved Pin			
19	BS2	I	Communicating Protocol Select These pins are MCU interface selection input. See the following table:			
			68XX-parallel	80XX-parallel	Serial	
			BS1	0	1	0
20	BS1	I	BS2	1	1	0
21	Vdd	P	Power Supply for Logic Circuit			
22	NC		Reserved Pin			
23	NC					
24	NC					
25	NC					
26	NC					
27	NC					
28	NC					
29	Vss	P	Ground of OLED System			
30	VSL	O	Voltage Output Low Level for SEG Signal			

## RET012864L OLED Graphic 128x64 dots

### Dimension drawing

