



OLED SPECIFICATION

Model No:

REX012864C

General Specification

The Features is described as follow:

■ Module dimension: 26.70 x 19.26 x 1.26 mm

■ Active area: 21.74 × 10.86 mm

■ Dot Matrix: 128 x 64

■ Pixel size: 0.148 × 0.148 mm

■ Pixel pitch: 0.170 × 0.170 mm

■ Display Mode: Passive Matrix

■ Duty: 1/64 Duty

Display Color: White

■ Controller IC: SH1106G

■ Interface: 6800, 8080, SPI, I2C

Size: 0.96 inch



Interface Pin Function

No.	Symbol	Function						
1	NC	No connection						
2	C1N	Connect to charge pump capacitor.						
3	C1P	These pins are not used and should be disconnected when Vpp is supplied externally.						
4	C2P	Connect to charge pump capacitor. These pins are not used and should be disconnected when Vpp is supplied						
5	C2N	externally.						
6	VDD2	3.0 – 4.7V power supply pad for Power supply for charge pump circuit. This pin should be disconnected when VPP is supplied externally						
7	NC	No connection						
8	VSS	Ground.						
9	VDD1	Power supply input: 1.65 - 3.5V						
10	NC	No connection						
11	IM1	These are the MPU interface mode select pads.						
''	11V1 1		8080	I ² C	6800	4-wire SPI		
	IM2	IM1	1	1	0	0		
12		IM2	1	0	1	0		
13	CSB	This pad is the chip select input. When CSB = "L", then the chip select becomes active, and data/command I/O is enabled.						
14	RESB	This is a reset signal input pad. When RES is set to "L", the settings are initialized. The reset operation is performed by the RES signal level.						
15	A0	This is the Data/Command control pad that determines whether the data bits are data or a command. A0 = "H": the inputs at D0 to D7 are treated as display data. A0 = "L": the inputs at D0 to D7 are transferred to the command registers. In I2C interface, this pad serves as SA0 to distinguish the different address of OLED driver.						
16	This is a MPU interface input pad. When connected to an 8080 MPU, this is active LOW. This pad connected the 8080 MPU WR signal. The signals on the data bus are latched at the rising edge of the WR signal. When connected to a 6800 Series MPU: This is the read/write control sinput terminal. When R/W = "H": Read. When R/W = "L": Write.						latched at the	

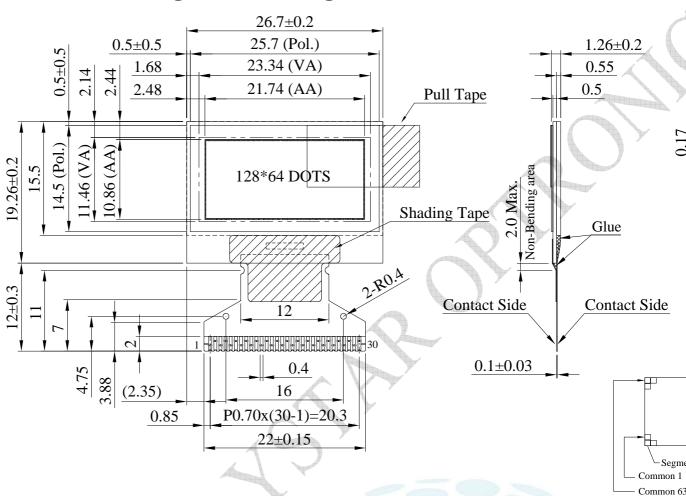


17	RDB	This is a MPU interface input pad. When connected to an 8080 series MPU, it is active LOW. This pad is connected to the RD signal of the 8080 series MPU, and the data bus is in an output status when this signal is "L". When connected to a 6800 series MPU, this is active HIGH. This is used as an enable clock input of the 6800 series MPU. When RD = "H": Enable. When RD = "L": Disable.
18	D0	This is an 8-bit bi-directional data bus that connects to an 8-bit or 16-bit
19	D1	standard MPU data bus.
20	D2	When the serial interface is selected, then D0 serves as the serial clock input
21	D3	pad (SCL) and D1 serves as the serial data input pad (SI). At this time, D2 to
22	D4	D7 are set to high impedance.
23	D5	When the I2C interface is selected, then D0 serves as the serial clock input
24	D6	pad (SCL) and D1 serves as the serial data input pad (SDAI). At this time, D2
25	D7	to D7 are set to high impedance.
26	IREF	This is a segment current reference pad. A resistor should be connected between this pad and VSS. Set the current at 18.75uA.
27	VCOMH	This is a pad for the voltage output high level for common signals. A capacitor should be connected between this pad and VSS.
28	VPP OLED panel power supply. Generated by internal charge pump. Connect to capacitor. It could be supplied externally.	
29	NC	No connection
30	NC	No connection





Contour Drawing & Block Diagram



The non-specified



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD1	-0.3	3.6	V
Power supply for charge pump circuit	VDD2	DD2 -0.3		y
Supply Voltage for Display	VPP	-0.3	14.5	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	VDD1	7	2.8	3.0	3.3	V
Power supply for charge pump circuit	VDD2	_	3.5	3.8	4.2	V
Charge Pump Output Voltage for Display (Generated by Internal DC/DC)	Charge Pump VPP	- 3	7.5	8	8.5	V
High Level Input	VIH	3-0	0.8xVDD1	2	VDD1	٧
Low Level Input	VIL		VSS	57	0.2xVDD1	V
High Level Output	VOH		0.8xVDD1	-6	VDD1	V
Low Level Output	VOL	_	VSS	_	0.2xVDD1	V
Operating Current for VDD2 Display 50% ON	IDD2	_	_	10	16	mA

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