

OLED DISPLAY SPECIFICATION



RAYSTAR

RAYSTAR Optronics, Inc.
曜凌光電股份有限公司



曜凌光電股份有限公司
Raystar Optronics, Inc.

T: +886-4-2565-0761 | F: +886-4-2565-0760
sales@raystar-optronics.com | www.raystar-optronics.com

SPECIFICATION

Model No:
REX001602H

General Specification

The Features is described as follow:

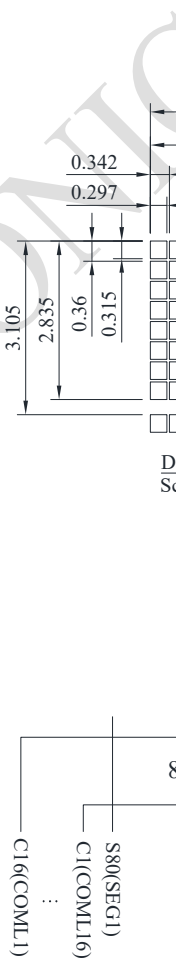
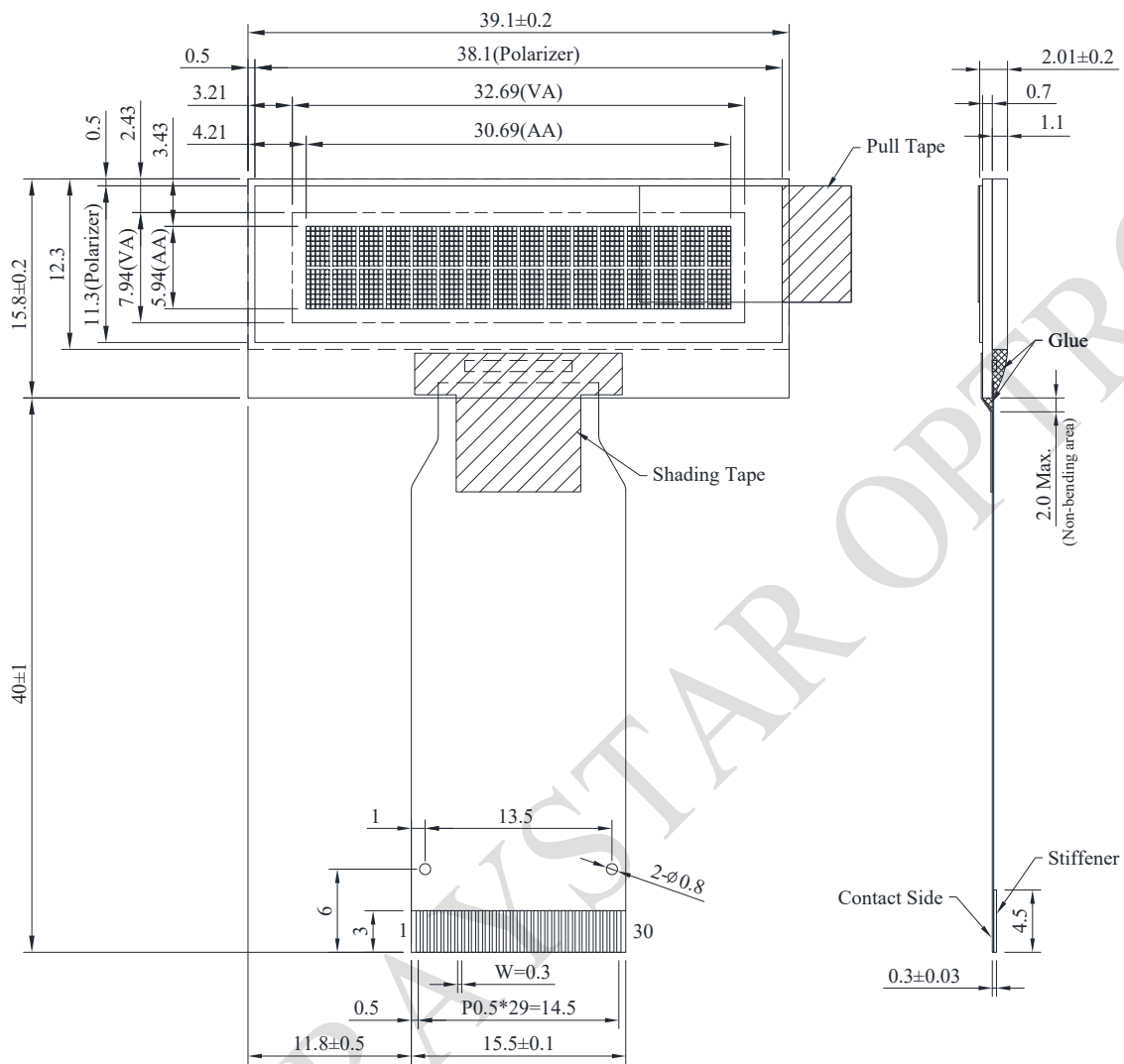
- Module dimension: 39.1 x 15.8 x 2.01 mm
- View area: 32.69 x 7.94 mm
- Active area: 30.69 x 5.94 mm
- Number of Characters: 16 characters x 2 Lines
- Dot size: 0.297 x 0.315mm
- Dot pitch: 0.342 x 0.36 mm
- Character size: 1.66 x 2.835 mm
- Character pitch: 1.935 x 3.105 mm
- Duty: 1/16
- Panel type: OLED, Monochrome
- Interface:6800,8080,SPI,I2C
- IC:RS0012
- SIZE: 1.23 inch

Interface Pin Function

Pin No.	Symbol	Level	Description		
1	GND	P	Ground Pin		
2	V16	I	This is the most positive voltage supply pin of the chip. It can be supplied externally or generated internally by using internal DC-DC voltage converter.		
3	VCI	P	DCDC buffer Power Supply		
4	GND	P	Ground Pin		
5	VCC	P	Power Pin		
6	BVR	I	Brightness control pin. It should be connected to VCC.		
7	DVR	I	Pre charge time control. It should be connected to VCC.		
8	VBREF	O	This pin is the internal voltage reference of DCDC1 circuit. A stabilization capacitor should be connected between this pin and GND		
9	RESE	I	NMOS source input pin: This pin connects to the source current pin of the external NMOS of the booster circuit.		
10	GDR	O	Gate drive pulse output pin: This output pin drives the gate of external NMOS of the booster circuit.		
11	FB	I	Feedback voltage input pin: This pin is the feedback resistor input of the booster circuit. It is used to adjust the booster output voltage level.		
12	VDD	P	Power Pin (connect to stabilization capacitor)		
13	IM1	I	Interface selection		
14	IM0	I	IM1	IM0	Interface
			L	L	6800-series
			L	H	8080-series
			H	L	SPI
H	H	I2C			
15	RESETB	I	Reset pin		
16	RS	I	Register Select Input Pin When this pin is set to "0", it is used as an Instruction Register. When this pin is set to "1", it is used for as the Data Register.		
17	CSB	I	Chip select input pins Data / instruction I/O is enabled only when CSB is "L".		

18	RDB	I	Read / Write execution control pin		
			MPU Type	RDB	Description
			6800-series	E	Read / Write control input pin - RW = "H": When E is "H", DB0 to DB7 are in an output status. - RW = "L": The data on DB0 to DB7 are latched at the falling edge the E signal.
8080-series	RDB	Read enable clock input pin When / RDB is "L", DB0 to DB7 are in an output status.			
19	WRB	I	Read / Write execution control pin		
			MPU Type	WRB	Description
			6800-series	RW	Read / Write control input pin - RW = "H" : read - RW = "L" : write
8080-series	WRB	Write enable clock input pin. The data on DB0 to DB7 are latched at the rising edge of the /WRB signal.			
20	SDA	I/O	SDA is the serial data input for I2C.		
21	SDC	I/O	SDC is the serial clock input/output for I2C.		
22~25	DB7~DB4	I/O	High Order Bidirectional Data I/O Pins These pins are used for data transfer and reception between the MPU and WS0012. When SPI is selected, DB5 will be the serial clock input: SCL DB7 will be the serial data input: SDI. DB6 will be the serial data output: SDO.		
26~29	DB3~DB0	I/O	Low Order Bidirectional Data I/O Pins These pins are used for data transfer and reception between the MPU and WS0012. These pins are not used during a 4-bit operation.		
30	GND	P	Ground Pin		

Contour Drawing & Block Diagram



The non-specific

Absolute Maximum Ratings

Item	Symbol	Min	Max	Unit
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TST	-40	+85	°C
Supply Voltage For Logic	VCC	-0.3	3.6	V
Supply Voltage For DCDC	VCI	-0.3	3.6	V
Supply Voltage for Display	V16	-0.3	19.0	V

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	VCC	—	2.6	3.3	3.5	V
Supply Voltage For DCDC converter	VCI	—	2.6	3.3	3.5	V
Supply Voltage for Display	V16	—	—	12.5	13.0	V
Input High Volt.	VIH	—	0.9xVCC	—	VCC	V
Input Low Volt.	VIL	—	GND	—	0.1xVCC	V
Output High Volt.	VOH	IOH=-0.5mA	0.8xVCC	—	VCC	V
Output Low Volt.	VOL	IOL=0.5mA	GND	—	0.2xVCC	V
50% Checkerboard Operating Current	I16	V16=12.5V	—	2	4	mA

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