



RAYSTAR

曜凌光電股份有限公司

Web: www.raystar-optronics.com E-mail: sales@raystar-optronics.com

RX128128A

SPECIFICATION

General Specification

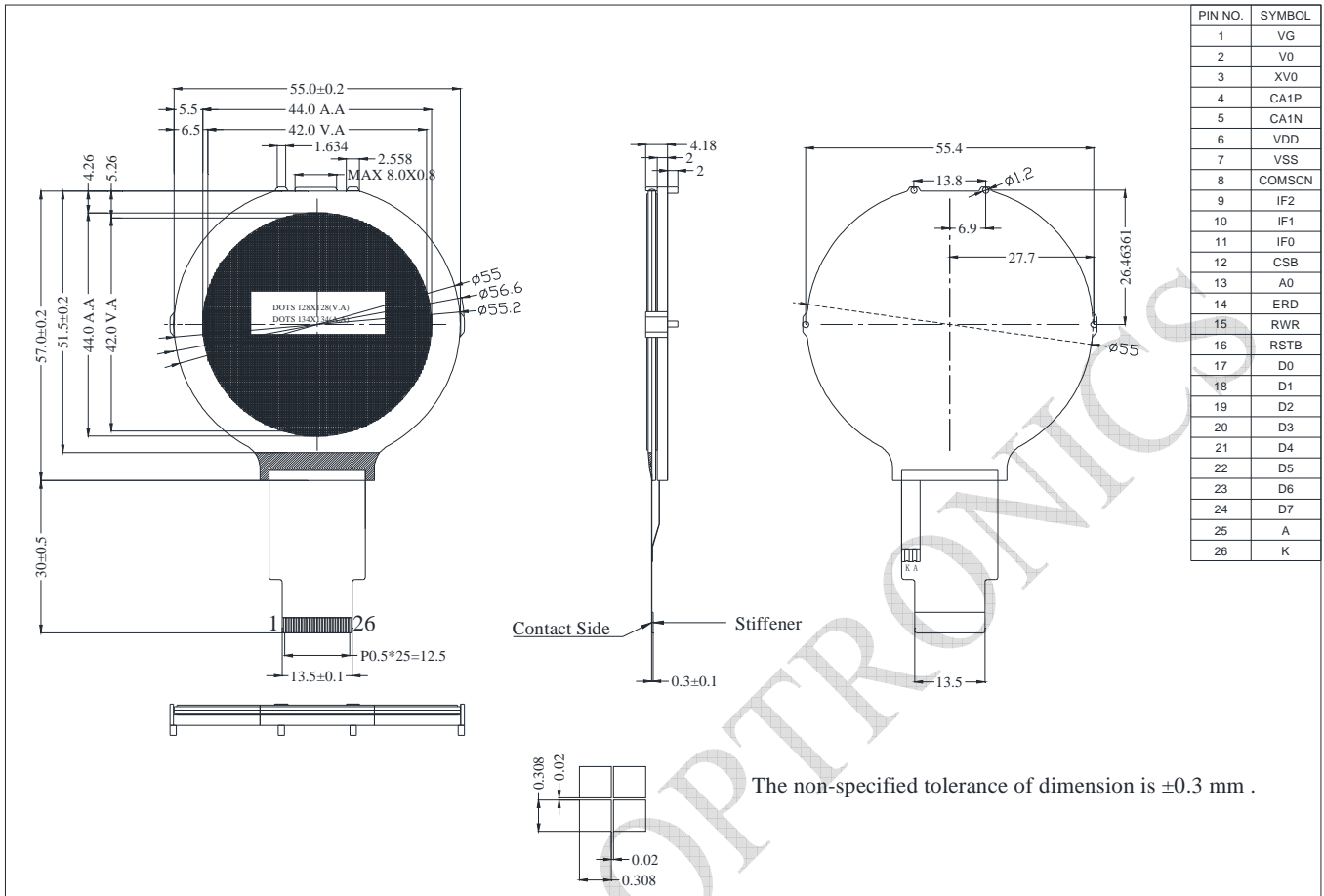
The Features of the Module is description as follow:

- Number of dots: 128 x 128
- Module dimension: 55.0 x 57.0 x 6.18 mm
- View area: 42.0 x 42.0 mm
- Active area: 44.0 x 44.0 mm
- Dot size: 0.308 x 0.308 mm
- Dot pitch: 0.310 x 0.310 mm
- Duty: 1/136 DUTY,1/12 BIAS
- Backlight Type: LED
- IC: ST75161

Interface Pin Function

Pin No.	SYMBOL	Function
1	VG	VG is the power of SEG-drivers.
2	V0	Positive operating voltage of COM-drivers.
3	XV0	Negative operating voltage of COM-drivers.
4	CA1P	DC/DC voltage converter
5	CA1N	
6	VDD	Power supply
7	VSS	Ground
8	COMSCN	Set scan direction of COM.
9	IF2	These pins select interface operation mode.
10	IF1	
11	IF0	
12	CSB	Chip select input pin.
13	A0	It determines whether the access is related to data or command.
14	ERD	Read / Write execution control pin.
15	RWR	Read / Write execution control pin.
16	RSTB	Hardware reset input pin
17-24	D0-D7	<p>When using 8-bit parallel interface: 8080 or 6800 mode:8 bit bi-directional data bus When using serial interface : 4-line SPI or 3-line SPI mode D[7:4] : fix to "H" by VDD1. D[3:1] : serial input/output data (SDA). D[0] : serial input clock (SCL). D1 to D3 must be connected together (SDA)</p> <p>When using serial interface : I2C interface D[7] : SA[1], I2C slave address bit. Must be connected to VDD1 or VSS1. D[6] : SA[0], I2C slave address bit. Must be connected to VDD1 or VSS1. D[5:4] : fix to "H" by VDD1. D[3:2] : SDA_OUT, serial data and acknowledge output for the I2C interface. D[1] : SDA_IN, serial input data D[0] : SCL, serial input clock . D1 to D3 must be connected together (SDA) CSB must be fixed to "L" by VSS1.</p>
25	A	Anode input for LED backlight.
26	K	Cathode input for LED backlight

Contour Drawing



Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	°C
Storage Temperature	T_{ST}	-30	—	+80	°C
Power Supply Voltage	VDD	-0.3	—	4.0	V
LCD Power supply voltage	VLCD	-0.3	—	20	V
LCD Power supply voltage	V0-XV0	-0.3	—	19	V
Input voltage	VIN	-0.3	—	VDD+0.3	V

Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Supply Voltage For Logic	$V_{DD}-V_{SS}$	—	2.7	3.0	3.3	V
Supply Voltage For LCD	V_{OP}	Ta=-20°C	—	—	—	V
		Ta=25°C	13.7	14.0	14.3	V
		Ta=70°C	—	—	—	V
Input High Volt.	V_{IH}	—	0.7 V_{DD}	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	Vss	—	0.3 V_{DD}	V
Output High Volt.	V_{OH}	—	0.8 V_{DD}	—	V_{DD}	V
Output Low Volt.	V_{OL}	—	Vss	—	0.2 V_{DD}	V
Supply Current	I_{DD}	$V_{DD}=3.0V$	—	—	2.0	mA