



RAYSTAR

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RX128128A2-FHW SPECIFICATION

General Specification

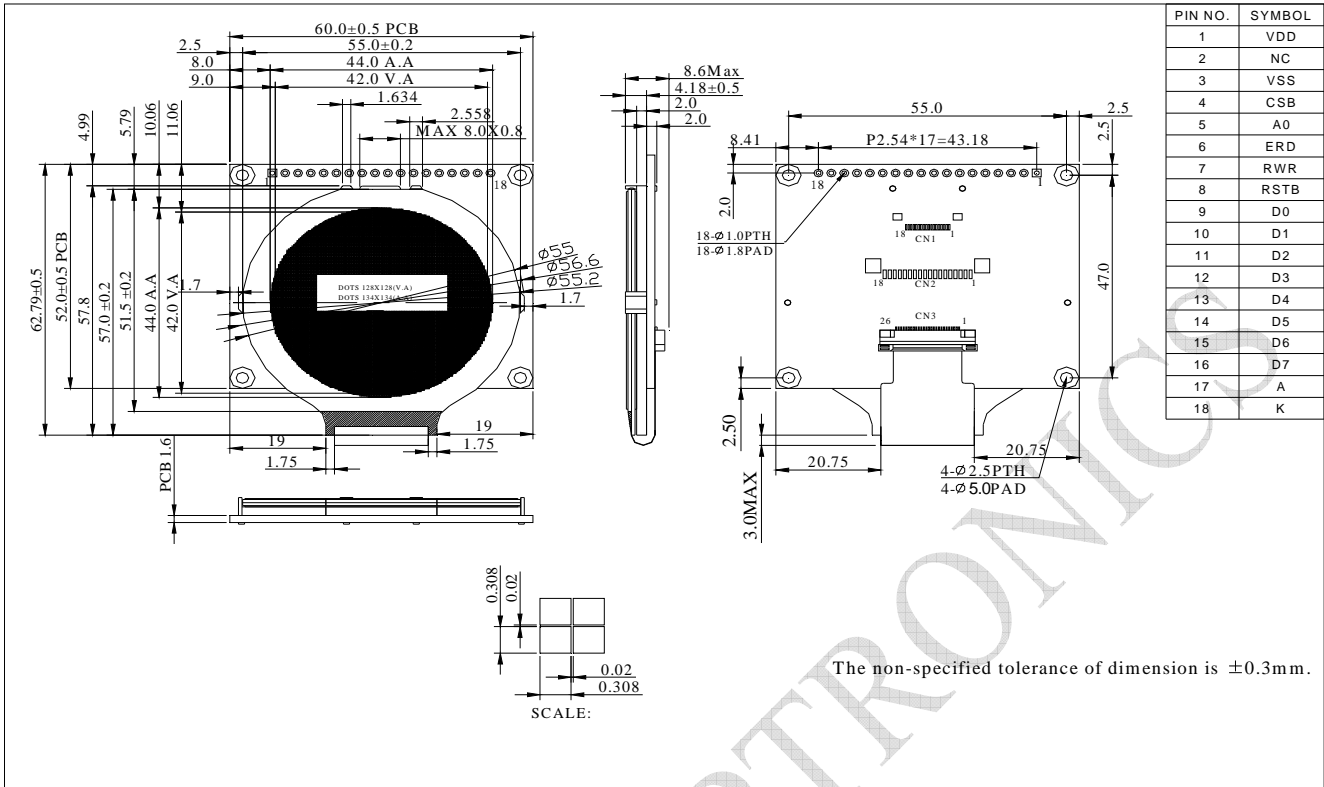
The Features is described as follow:

- Number of dots: 128 x 128
- Module dimension: 60.0 x 62.79 x 8.6 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

Interface Pin Function

Pin No.	SYMBOL	Function
1	VDD	Power supply
2	NC	No Connection
3	VSS	Ground
4	CSB	Chip select input pin.
5	A0	It determines whether the access is related to data or command.
6	ERD	Read / Write execution control pin.
7	RWR	Read / Write execution control pin.
8	RSTB	Hardware reset input pin
9-16	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>
17	A	Anode input for LED backlight.
18	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}	$T_a=-20^{\circ}C$	—	—	—	V
		$T_a=25^{\circ}C$	13.7	14.0	14.3	V
		$T_a=70^{\circ}C$	—	—	—	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