



RAYSTAR

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RX1602B

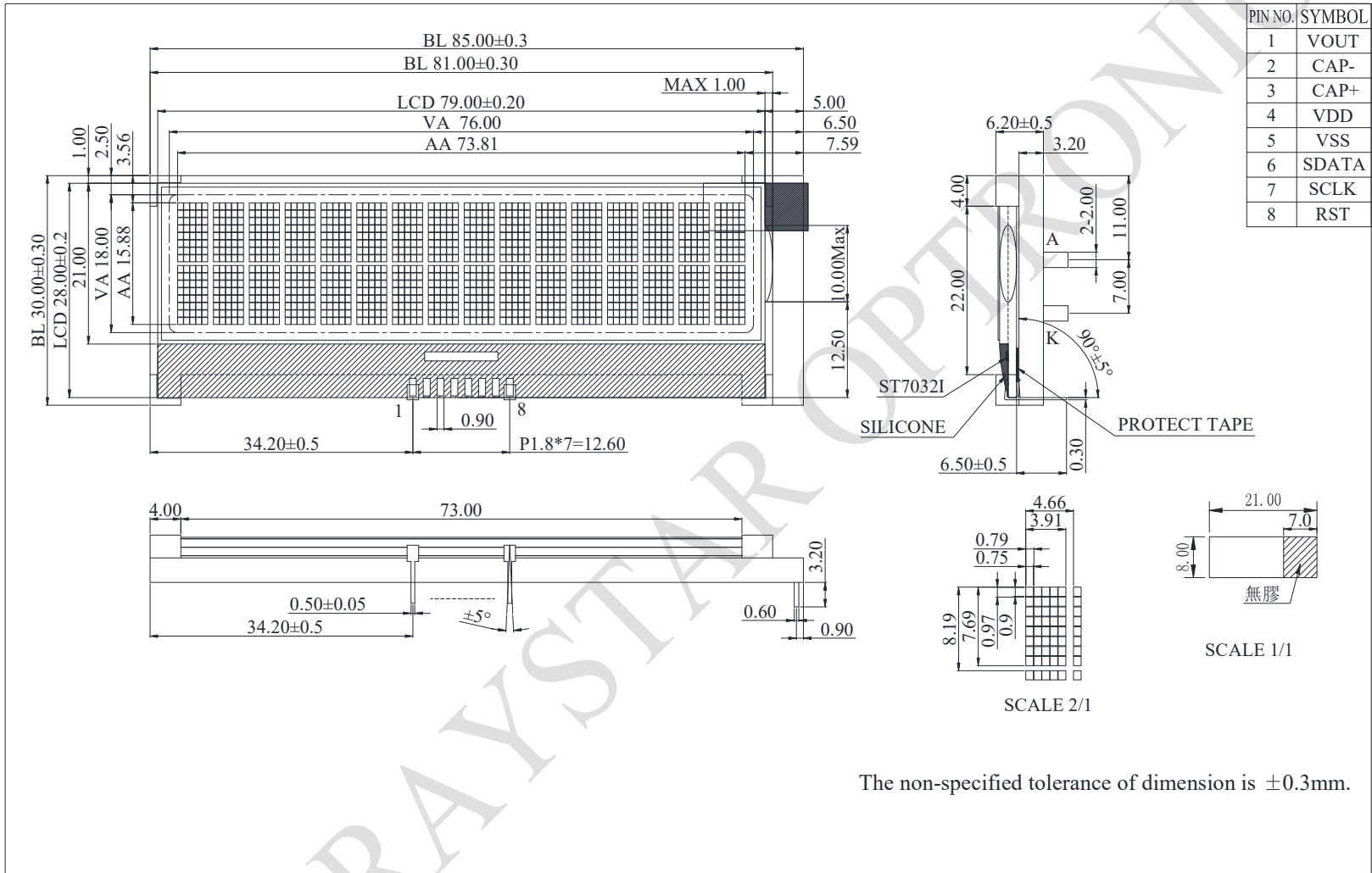
General Specification

- Number of Characters: 16 characters x 2 Lines
- Module dimension: 85.0*30.0*6.2 mm
- View area: 76.0*18.0 mm
- Active area: 73.81*15.88 mm
- Dot size: 0.75*0.9 mm
- Dot pitch: 0.79*0.97 mm
- Character size: 3.91*7.69 mm
- Character pitch: 4.66*8.19 mm
- Duty: 1/16 , 1/5 Bias
- Backlight Type: LED
- IC: ST7032i
- Interface:I2C

Interface Pin Function

Pin No.	Symbol	Level	Description
1	VOUT		DC/DC voltage converter. Connect a capacitor between this terminal and VIN when the built-in booster is used.
2	CAP-		For voltage booster circuit(VDD-VSS) External capacitor about 0.1u~4.7uf
3	CAP+		
4	VDD	3.0/5.0V	Power supply
5	VSS		GND
6	SDATA		(In I2C interface DB7 (SDATA) is input data. SDATA and SCLK must connect to I2C bus (I2C bus is to connect a resistor between SDATA/ SCLK and the power of I2C bus).
7	SCLK		(In I2C interface DB6 (SCLK) is clock input. SDA and SCLK must connect to I2C bus (I2C bus is to connect a resistor between SDATA/SCLK and the power of I2C bus).
8	RST		RESET (Low active)

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
Input Voltage	V_{IN}	-0.3	—	$V_{DD}+0.3$	V
Power Supply Voltage	$V_{DD}-V_{SS}$	-0.3	—	+6.0	V
LCD Driver Voltage	V_{LCD}	2.7	—	7.0	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	$V_{DD}-V_{SS}$	—	3	3.3	5 (bon=1 max=3.5V)	V
Supply Voltage For LCD	V_{LCD}	$T_a=-20^{\circ}C$	—	—	—	V
		$T_a=25^{\circ}C$	4.3	4.5	4.7	V
		$T_a=70^{\circ}C$	—	—	—	V
Input High Volt.	V_{IH}	—	$0.7 V_{DD}$	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	—	—	$0.2 V_{DD}$	V
Output High Volt.	V_{OH}	—	$0.8 V_{DD}$	—	V_{DD}	V
Output Low Volt.	V_{OL}	—	—	—	$0.2V_{DD}$	V
Supply Current(No include LED Backlight)	I_{DD}	—	—	—	2.0	mA