



RAYSTAR

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## RX24064C

### SPECIFICATION

#### General Specification

The Features is described as follow :

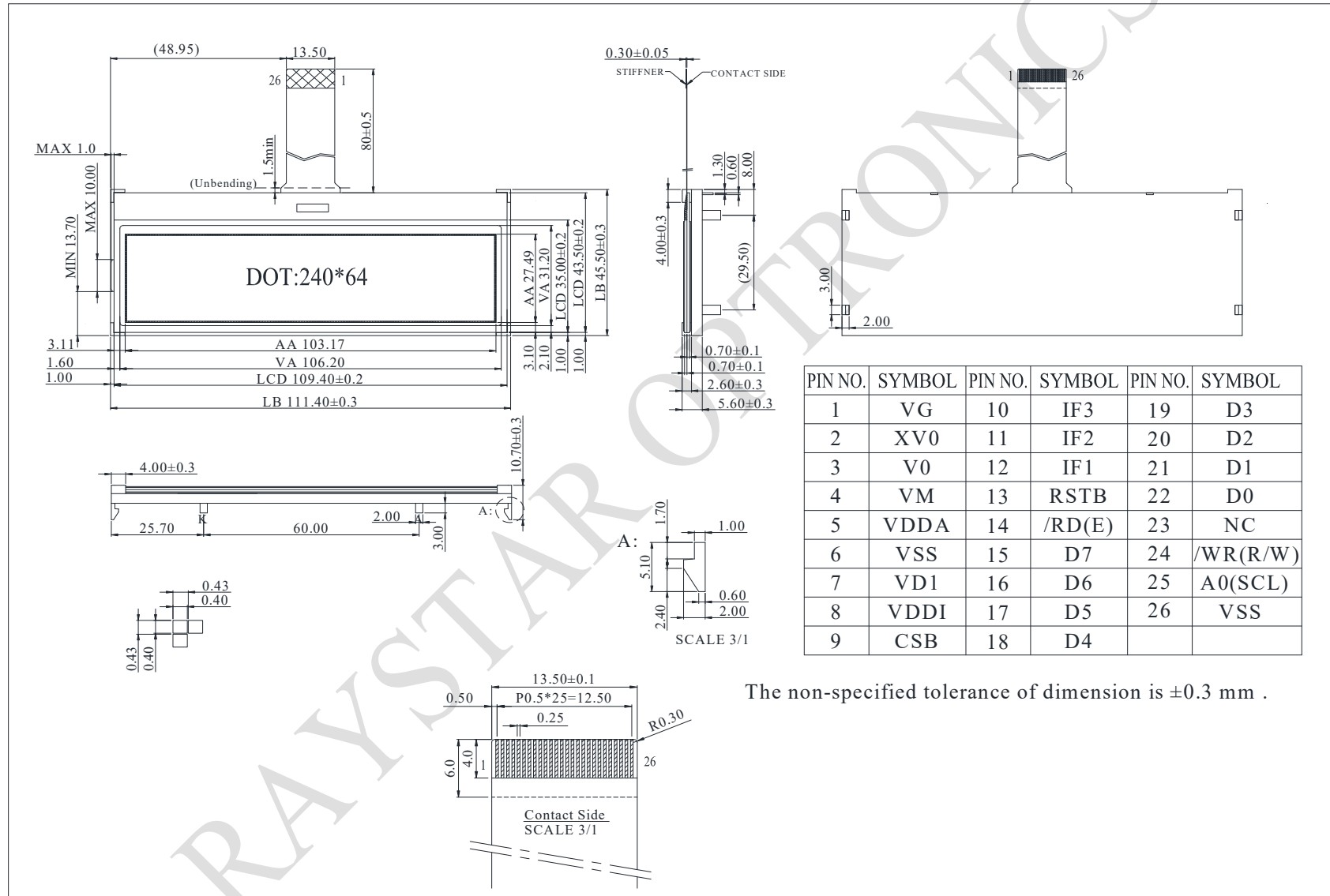
- Module dimension : 111.4 x 45.5 x 5.6 (max.) mm
- View area : 106.2 x 31.2 mm
- Active area : 103.17 x 27.49 mm
- Number of dots : 240 x 64
- Dot size : 0.40 x 0.40 mm
- Dot pitch : 0.43 x 0.43 mm
- Duty : 1/64
- Backlight Type : LED
- IC : ST7586S

## Interface Pin Function

Pin No.	Symbol	I/O	Description																				
1	VG	P	VG is the power of SEG-drivers.																				
2	XV0	P	Negative operating voltage of COM-drivers.																				
3	V0	P	Positive operating voltage of COM-drivers. V0O is the output of the positive Vop generator. V0I is the positive Vop supply of LCD drivers. V0S is the sensor of the positive Vop generator. V0O, V0I & V0S should be separated on ITO and be connected together by FPC.																				
4	VM	P	VM is the non-select voltage level of COM-drivers.																				
5	VDDA	P	Analog power for internal booster.																				
6	VSS	P	Ground																				
7	VD1	P	VD1I is the power source of digital circuits.																				
8	VDDI	P	Power of interface I/O circuit.																				
9	CSB	Input	Chip select input pin. CSB="L": This chip is selected and the MPU interface is																				
10	IF3	Input	These pins select interface operation mode. <table border="1"> <thead> <tr> <th>IF3</th> <th>IF2</th> <th>IF1</th> <th>MPU interface type</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>H</td> <td>L</td> <td>80 series 8-bit parallel</td> </tr> <tr> <td>H</td> <td>L</td> <td>L</td> <td>68 series 8-bit parallel</td> </tr> <tr> <td>L</td> <td>H</td> <td>H</td> <td>8-bit serial (4-Line)</td> </tr> <tr> <td>L</td> <td>H</td> <td>L</td> <td>9-bit serial (3-Line)</td> </tr> </tbody> </table>	IF3	IF2	IF1	MPU interface type	H	H	L	80 series 8-bit parallel	H	L	L	68 series 8-bit parallel	L	H	H	8-bit serial (4-Line)	L	H	L	9-bit serial (3-Line)
IF3	IF2			IF1	MPU interface type																		
H	H			L	80 series 8-bit parallel																		
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L	H	L	9-bit serial (3-Line)																				
11	IF2																						
12	IF1																						
13	RSTB	Input	Reset input pin. When RSTB is "L", internal initialization procedure is executed.																				
14	/RD(E)	Input	Read / Write execution control pin. (This pin is only used in parallel interface)																				

15	D7	I/O	The bi-directional data bus of the MPU interface. When CSB is "H", they are high impedance. If using serial interface: D0 is the SDA signal in 4-Line & 3-Line interface. D1 is the A0 signal in 4-Line interface
16	D6		
17	D5		
18	D4		
19	D3		
20	D2		
21	D1		
22	D0		
23	NC		No connection
24	/WR(R/W)	Input	Read / Write execution control pin. (This pin is only used in parallel interface)
25	A0(SCL)	Input	The function of this pin is different in parallel and serial interface.
26	VSS	P	Ground

# Contour Drawing



## Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T <sub>OP</sub>	-20	—	+70	°C
Storage Temperature	T <sub>ST</sub>	-30	—	+80	°C
Digital Power Supply Voltage	V <sub>DDI</sub>	-0.3	—	3.6	V
Analog Power supply voltage	V <sub>DDA</sub>	-0.3	—	3.6	V
LCD Power supply voltage	V <sub>0-XV0</sub>	-0.3	—	19	V
LCD Power supply voltage	V <sub>G</sub>	-0.3	—	5.5	V

## Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V <sub>DD-VSS</sub>	—	3.0	3.3	3.4	V
Supply Voltage For LCM	V <sub>0-XV0</sub>	T <sub>a</sub> =-20°C	—	—	—	V
		T <sub>a</sub> =25°C	9.8	10.0	10.2	V
		T <sub>a</sub> =+70°C	—	—	—	V
Input High Volt.	V <sub>IH</sub>	—	0.7V <sub>DD</sub>	—	V <sub>DD</sub>	V
Input Low Volt.	V <sub>IL</sub>	—	V <sub>SS</sub>	—	0.3 V <sub>DD</sub>	V
Output High Volt.	V <sub>OH</sub>	—	0.8 V <sub>DD</sub>	—	V <sub>DD</sub>	V
Output Low Volt.	V <sub>OL</sub>	—	V <sub>SS</sub>	—	0.2V <sub>DD</sub>	V
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =3.3V	0.1	1.5	3.0	mA