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RX24064B

General Specification

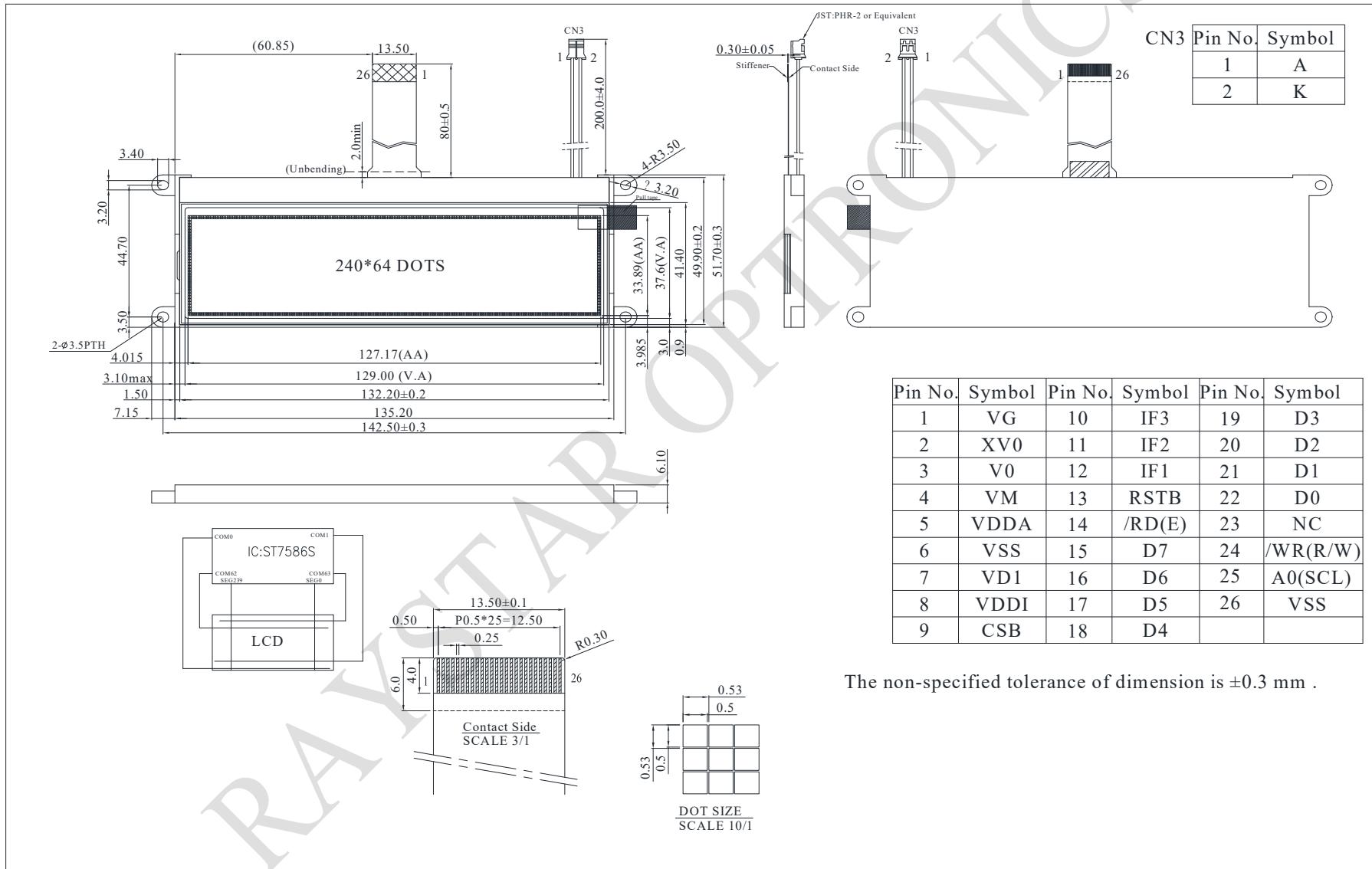
- Module dimension: 142.5 x 51.7 x 6.10 mm
- View area: 129.0 x 37.6 mm
- Active area: 127.17 x 33.89 mm
- Number of dots: 240 x 64
- Dot size: 0.5 x 0.5 mm
- Dot pitch: 0.53 x 0.53 mm
- Duty: 1/64
- Backlight Type: LED
- IC: ST7586S-G4
- Interface: 68 series /80 series/3-Line/4-Line

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 active.																				
10	IF3	Input	These pins select interface operation mode. <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>IF3</td><td>IF2</td><td>IF1</td><td>MPU interface type</td></tr> <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> </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)
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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	<p>The bi-directional data bus of the MPU interface. When CSB is "H", they are high impedance.</p> <p>If using serial interface:</p> <p>D0 is the SDA signal in 4-Line & 3-Line interface.</p> <p>D1 is the A0 signal in 4-Line interface</p>
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. In parallel interface: A0 is register selection input.
26	VSS	P	Ground

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
Digital Power Supply Voltage	VDDI	-0.3	—	3.6	V
Analog Power supply voltage	VDDA	-0.3	—	3.6	V
LCD Power supply voltage	V0-XV0	-0.3	—	19	V
LCD Power supply voltage	VG	-0.3	—	5.5	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V _{DD} -V _{SS}	—	3.0	3.3	3.4	V
Supply Voltage For LCM	V0-XV0	T _a =-20°C T _a =25°C T _a =+70°C	— 9.8 —	— 10.0 —	— 10.2 —	V V V
Input High Volt.	V _{IH}	—	0.7V _{DD}	—	V _{DD}	V
Input Low Volt.	V _{IL}	—	V _{SS}	—	0.3 V _{DD}	V
Output High Volt.	V _{OH}	—	0.8 V _{DD}	—	V _{DD}	V
Output Low Volt.	V _{OL}	—	V _{SS}	—	0.2V _{DD}	V
Supply Current(No include LED Backlight)	I _{DD}	V _{DD} =3.3V	—	1.5	—	mA