



RAYSTAR

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RX256128A-FHW

SPECIFICATION

General Specification

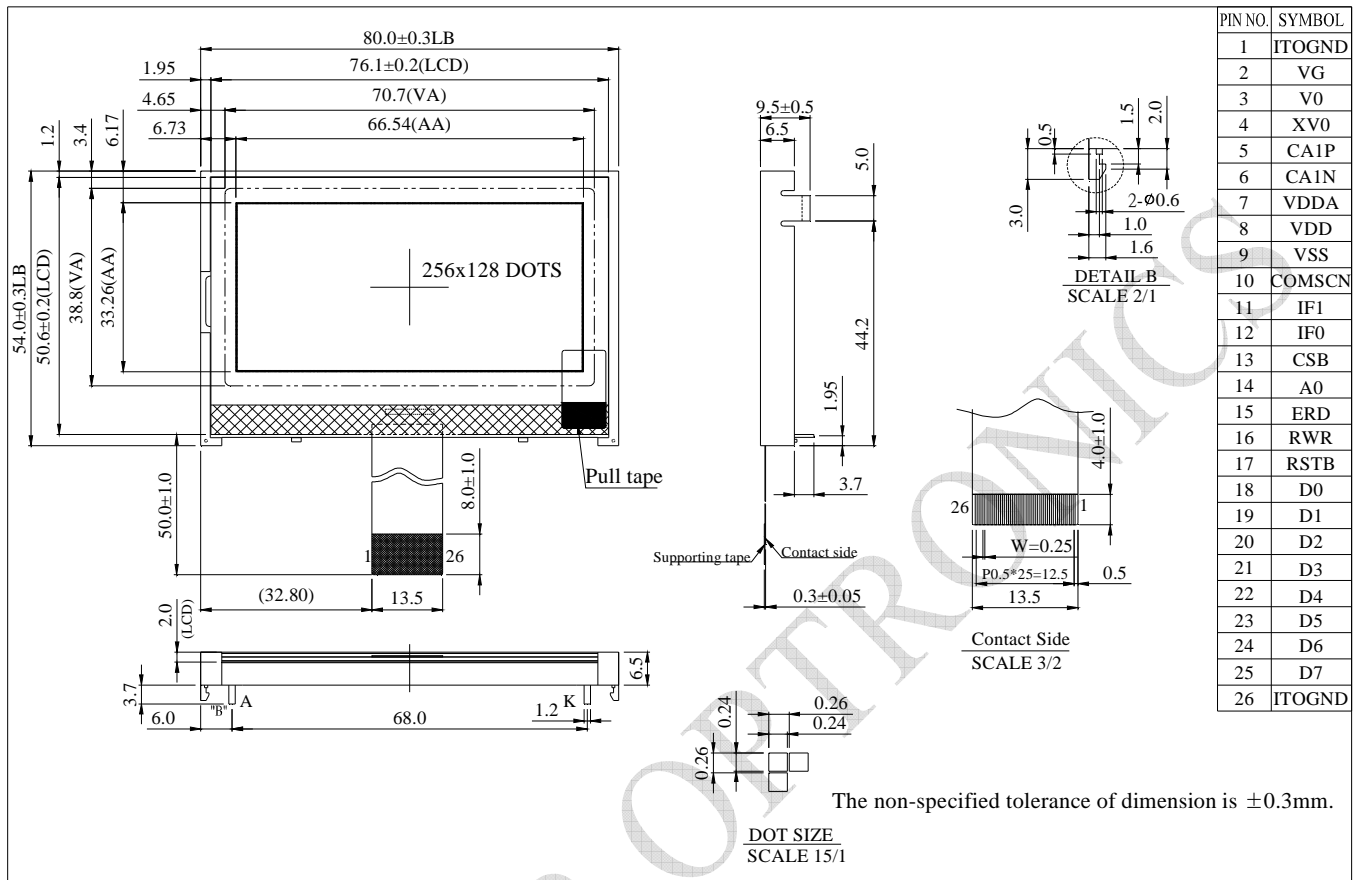
The Features is described as follow:

- Module dimension: 80.0 x 54.0 x 9.5 mm
- View area: 70.7 x 38.8mm
- Active area: 66.54 x 33.26 mm
- Number of dots: 256 x 128
- Dot size: 0.24 x 0.24 mm
- Dot pitch: 0.26 x 0.26mm
- Duty: 1/128 DUTY,1/12 BIAS
- Backlight Type: LED
- IC: ST75256i
- Interface :4-Line SPI/IIC/8-bit 6800/8-bit 8080

Interface Pin Function

Pin No.	Symbol	Description																					
1	ITOGND	ESD PIN																					
2	VG	Power of SEG-drivers																					
3	V0	Positive operating voltage of COM-drivers																					
4	XV0	Negative operating voltage of COM-drivers																					
5	CA1P	DC/DC Voltage converte pin																					
6	CA1N	DC/DC Voltage converte pin																					
7	VDDA	+3.3V																					
8	VDD	+3.3V																					
9	VSS	ground																					
10	COMSCN	Set scan directing of COM																					
11	IF1	<table border="1"> <tr> <td colspan="3">These pins select interface operation mode.</td> </tr> <tr> <td>IF1</td> <td>IF0</td> <td>MPU interface type</td> </tr> <tr> <td>L</td> <td>L</td> <td>4-line serial interface</td> </tr> <tr> <td>L</td> <td>H</td> <td>IIC serial interface</td> </tr> <tr> <td>H</td> <td>L</td> <td>8-bit 6800 parallel interface</td> </tr> <tr> <td>H</td> <td>H</td> <td>8-bit 8080 parallel interface</td> </tr> <tr> <td colspan="3">Note: Refer to "Parallel / Serial Interface" for detailed information.</td> </tr> </table>	These pins select interface operation mode.			IF1	IF0	MPU interface type	L	L	4-line serial interface	L	H	IIC serial interface	H	L	8-bit 6800 parallel interface	H	H	8-bit 8080 parallel interface	Note: Refer to "Parallel / Serial Interface" for detailed information.		
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12	IF0																						
13	CSB	Chip select input pin																					
14	A0	Whether the access is related to data or command																					
15	ERD	Read or write enable terminal																					
16	RWR	Read/Write execution control pin																					
17	RSTB	Reset input pin																					
18~25	D0~D7	Data bus line																					
26	ITOGND	ESD PIN																					

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
MPU Interface Input Voltage	V_{IN}	-0.3	—	$V_{DD}+0.3$	V
Digital Power Supply Voltage	$V_{DD}-V_{SS}$	-0.3	—	4.0	V
LCD Power supply voltage	$V_0- X_{V0}$	-0.3	—	19.0	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	$V_{DD}-V_{SS}$	—	3.0	3.3	3.6	V
Supply Voltage For LCM	V_{OP}	$T_a=-20^{\circ}C$	—	—	—	V
		$T_a=25^{\circ}C$	14.2	14.5	14.8	V
		$T_a=70^{\circ}C$	—	—	—	V
Input High Volt.	V_{IH}	—	$0.7 V_{DD}$	—	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}	—	$0.2 V_{DD}$	V
Supply Current	I_{DD}	$V_{DD}=3.3V$	—	1.5	—	mA