



RAYSTAR

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RX12864T

SPECIFICATION

General Specification

The Features of the Module is description as follow:

- Number of dots: 128 x 64
- Module dimension: 38.0 x 26.42 x 8.8 mm
- View area: 29.58 x 16.22 mm
- Active area: 25.58x 14.06 mm
- Dot size: 0.18 x 0.20 mm
- Dot pitch: 0.20 x 0.22 mm
- Duty: 1/65 DUTY, 1/9 BIAS
- Backlight Type: LED
- IC: ST7565P

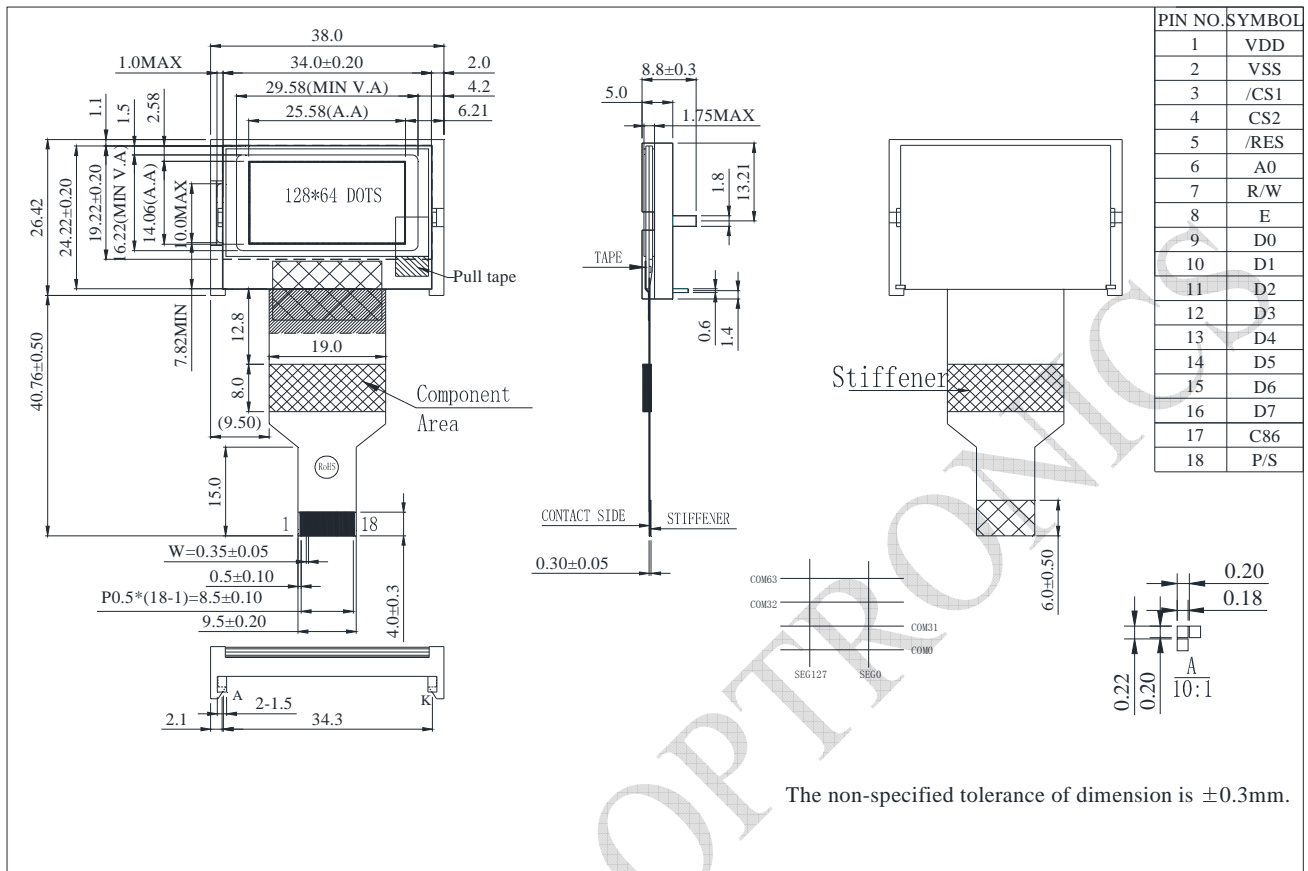
Interface Pin Function

Pin No.	Symbol	I/O	Description												
1	VDD	_	Power supply pin for logic.												
2	VSS	_	Ground pin, connected to 0V												
3	/CS1	I	Chip select input pin. Interface access is enabled when CS1B is "L" and CB2 is "H". When chip is on-active (CS1B="H" or CS2="L"), D[7:0] pins are high impedance.												
4	CS2														
5	/RES	I	Hardware reset input pin. When RSTB is "L", internal initialization is executed and the internal registers will be initialized.												
6	A0	I	It determines whether the access is related to data or command. A0="H": Indicates that signals on D[7:0] are display data. A0="L": Indicates that signals on D[7:0] are command.												
7	R/W	I	Read/Write execution control pin. When PSB is "H",												
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RWR is not used in serial interface and should fix to "H" by VDD.															
8	E	I	Read/Write execution control pin. When PSB is "H",												
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9-16	D0-D7	I/O	Data bus line												

17	C86	I	C86 selects the microprocessor type in parallel interface mode.		
			PSB	C86	Selected Interface
			"H"	"H"	Parallel 6800 Series MPU Interface
			"H"	"L"	Parallel 8080 Series MPU Interface
			"L"	"X"	Serial 4-Line SPI Interface
			Please refer to "APPLICATION NOTES" and "Microprocessor Interface" (Section 6) for detailed connection of the selected interface.		
18	P/S	I	PSB selects the interface type: Serial or Parallel.		

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4. 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	—	3.6	V
Power supply voltage (VDD standard)	V0, VOUT	-0.3	—	14.5	V
Power supply voltage (VDD standard)	V1, V2, V3, V4	-0.3	—	V0+0.3	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	$V_{DD}-V_{SS}$	—	3.0	—	3.3	V
Supply Voltage For LCD	V_{OP}	Ta=-20°C	—	—	—	V
		Ta=25°C	8.9	9.1	9.3	V
		Ta=70°C	—	—	—	V
Input High Volt.	V_{IH}	—	0.8 V_{DD}	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	Vss	—	0.2 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}	$V_{DD}=3.3V$	—	—	2.0	mA