



RAYSTAR

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RG12864H

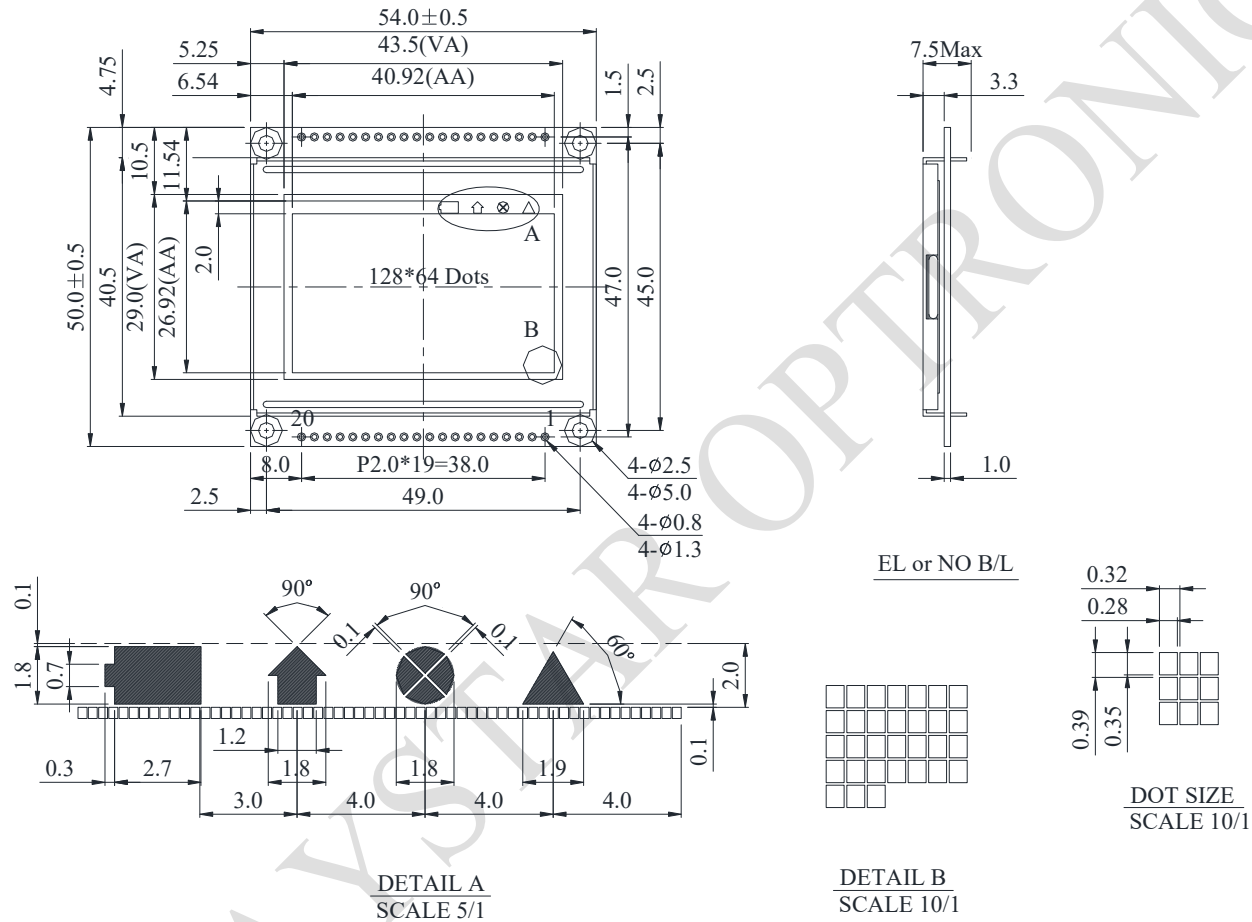
General Specification

- Module dimension: 54.0 x 50.0 x 7.5 (max.) mm
- View area: 43.5 x 29.0 mm
- Active area: 40.92 x 26.92 mm
- Number of dots: 128 x 64
- Dot size: 0.28 x 0.35 mm
- Dot pitch: 0.32 x 0.39 mm
- Duty: 1/64
- Backlight Type: LED
- IC:NT7107, NT7108

Interface Pin Function

Pin No.	Symbol	Level	Description
1	VSS	0V	Ground
2	VDD	5.0V	Supply voltage for logic
3	V _o	(Variable)	Operating voltage for LCD
4	D/I	H/L	H: Data , L: Instruction
5	R/W	H/L	H: Read (Module --> MPU) L: Write(MPU --> Module)
6	E	H	Enable signal
7	DB0	H/L	Data bus line
8	DB1	H/L	Data bus line
9	DB2	H/L	Data bus line
10	DB3	H/L	Data bus line
11	DB4	H/L	Data bus line
12	DB5	H/L	Data bus line
13	DB6	H/L	Data bus line
14	DB7	H/L	Data bus line
15	CS1	H	Chip Enable (Select Column 1 ~ Column 64)
16	CS2	H	Chip Enable (Select Column 65 ~ Column 128)
17	/RST	L	Reset signal
18	VEE		Negative Voltage Output
19	BL+	—	Enable (on/off) for EL B/L
20	NC	—	No connection

Contour Drawing



PIN NO.	SYMBOL
1	V _{ss}
2	V _{dd}
3	V _o
4	D/I
5	R/ \bar{W}
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	CS1
16	CS2
17	\bar{RST}
18	V _{ee}
19	BL+
20	NC

The non-specified tolerance of dimension is ± 0.3 mm .

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C
Supply Voltage For Logic	VDD-VSS	-0.3	—	7.0	V
Driver Supply Voltage	VLCD	VEE-0.3	—	VDD+0.3	V

Electrical Characteristics

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V _{DD} -V _{SS}	—	4.5	5.0	5.5	V
Supply Voltage For LCD	V _{DD} -V _O	Ta=-20°C	—	—	9.9	V
		Ta=25°C	8.1	8.4	8.7	V
		Ta=70°C	6.8	—	—	V
Input High Volt.	V _{IH}	—	0.7 V _{DD}	—	V _{DD}	V
Input Low Volt.	V _{IL}	—	0	—	0.8	V
Output High Volt.	V _{OH}	—	2.4	—	—	V
Output Low Volt.	V _{OL}	—	—	—	0.4	V
Power Supply Current	I _{DD} (EL OFF)	—	—	10.0	—	mA
Power Supply Current	I _{DD} (EL ON)	—	—	40.0	—	mA