



RAYSTAR

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RG14432A

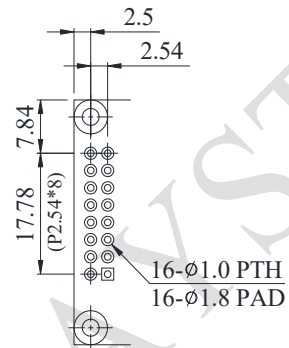
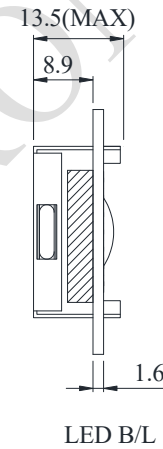
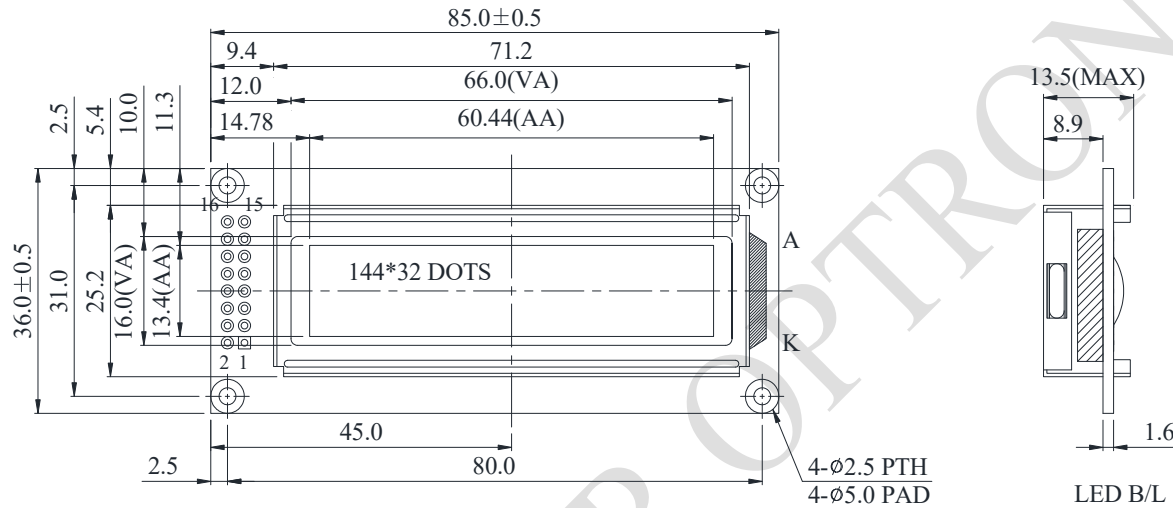
General Specification

- Module dimension: 85.0 x 36.0 x 13.5 (max.) mm
- View area: 66.0 x 16.0 mm
- Active area: 60.44 x 13.4 mm
- Number of dots: 144 x 32
- Dot size: 0.38 x 0.38 mm
- Dot pitch: 0.42 x 0.42 mm
- Duty: 1/32
- Backlight Type: LED
- IC: ST7920

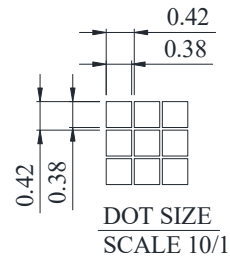
Interface Pin Function

Pin No.	Symbol	Level	Description
1	VSS	0V	GND
2	VDD	5.0V	Power Supply
3	V0	—	Contrast Adjustment
4	RS	H/L	H: Data , L : Instruction
5	R/W	H/L	H: Read (Module --> MPU) L: Write(MPU --> Module)
6	E	H/L	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	A	—	Power supply for B/L +
16	K	—	Power supply for B/L -

Contour Drawing



PIN DETAIL



PIN NO.	SYMBOL
1	V _{ss}
2	V _{dd}
3	V ₀
4	RS
5	R/W
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A
16	K

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

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	°C
Storage Temperature	T_{ST}	-30	—	+80	°C
Input Voltage	V_{IN}	-0.3	—	$V_{DD}+0.3$	V
Supply Voltage For Logic	$V_{DD}-V_{SS}$	-0.3	—	5.5	V
LCD Driver Voltage	V_{LCD}	-0.3	—	7.0	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 *Note	V_0-V_{SS}	$T_a=-20^{\circ}\text{C}$	—	—	5.5	V
		$T_a=25^{\circ}\text{C}$	4.1	4.3	4.5	V
		$T_a=+70^{\circ}\text{C}$	4.0	—	—	V
Input High Volt.	V_{IH}	—	$0.7V_{DD}$	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	-0.3	—	0.6	V
Output High Volt.	V_{OH}	—	$0.8 V_{DD}$	—	V_{DD}	V
Output Low Volt.	V_{OL}	—	0	—	0.4	V
Supply Current	I_{DD}	$V_{DD}=5.0$	1.6	2.2	3.5	mA