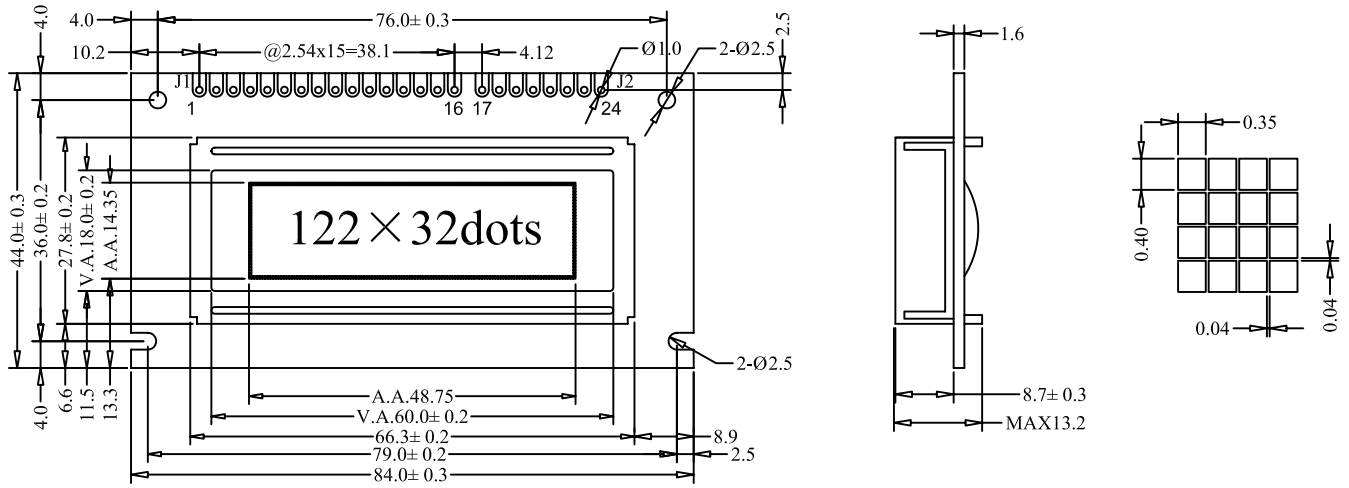


1.DIMENSION OUTLINE



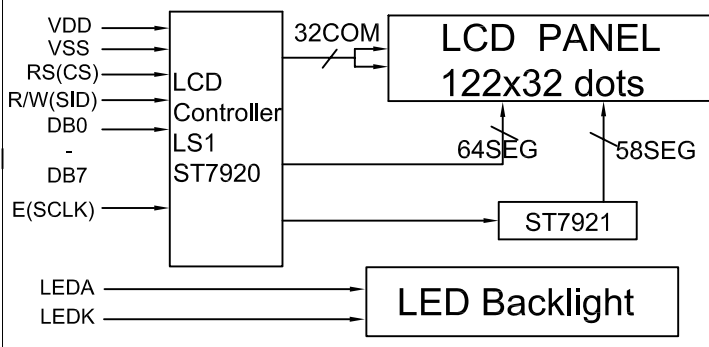
2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	84.0×44.0×13.2	mm	Reference Dimensional Outline
View Area(W×H)	60.0×18.0	mm	
Effective V/Area	48.75×14.35	mm	
Number of Characters	122×32	-	
Dot Pitch(W×H)	0.39×0.44	mm	
Dot Size(W×H)	0.35×0.40	mm	
Weight (Reflective/Led)	-	g	

3.ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V <sub>DD</sub>	Ta=25°C	-0.3V	5.5V
LCD Voltage	V <sub>LCD</sub>		-0.3V	7V
Input Voltage	V <sub>I</sub>		-0.3V	V <sub>DD</sub> +0.3V
Operation Temperature	T <sub>OP</sub>	—	-20°C	70°C
Storage Temperature	T <sub>st</sub>	—	-30°C	80°C

4.BLOCK DIAGRAM MECHANICAL



6.INTERFACE PIN CONNECTIONS

(J1)

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	VSS	0V	Power Ground
2	VDD	+5V	Power Supply For Logic
3	V0	—	Contrast adjust
4	RS(CS)	H/L	H:data L:command (Chip enable for serial mode)
5	R/W(SID)	H/L	H:read L:write (serial data for serial mode)
6	E(SCLK)	H,H→L	Enable signal (Serial clock)
7-14	DB0-DB7	H/L	Data bus line
15	LEDA	+5V	Power supply For LED Backlight
16	LEDK	0V	

5.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25°C				
Forward Voltage	V <sub>f</sub>	4.1	4.3	V
Forward Current	I <sub>f</sub>	90	—	mA
Emission Wave Length	λ <sub>p</sub>	572	—	nm

7.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25°C					
Logic Power	V <sub>DD</sub>	4.5	5	5.5	V
Input High Voltage	V <sub>IH</sub>	0.7V <sub>DD</sub>	—	V <sub>DD</sub>	V
Input Low Voltage	V <sub>IL</sub>	-0.3	—	0.6	V
Output High Voltage	V <sub>OH</sub>	0.8V <sub>DD</sub>	—	V <sub>DD</sub>	V
Output Low Voltage	V <sub>OL</sub>	0	—	0.4	V
Logic Current	I <sub>DD</sub>	—	3	5	mA
Operation Voltage For LCD	V <sub>DD</sub> -V <sub>0</sub>	—	5	—	V

(J2)

ITEM	SYMBOL	LEVEL	FUNCTIONS
17	VSS	0V	Power Ground
18	VDD	+5V	Power Supply For Logic
19	V0	—	Contrast adjust
20	SCLK	H/L	Serial clock
21	SID	H/L	Serial data for serial mode
22	CS	H,H→L	Chip enable for serial mode
23	A	+5V	Power supply For LED Backlight
24	K	0V	