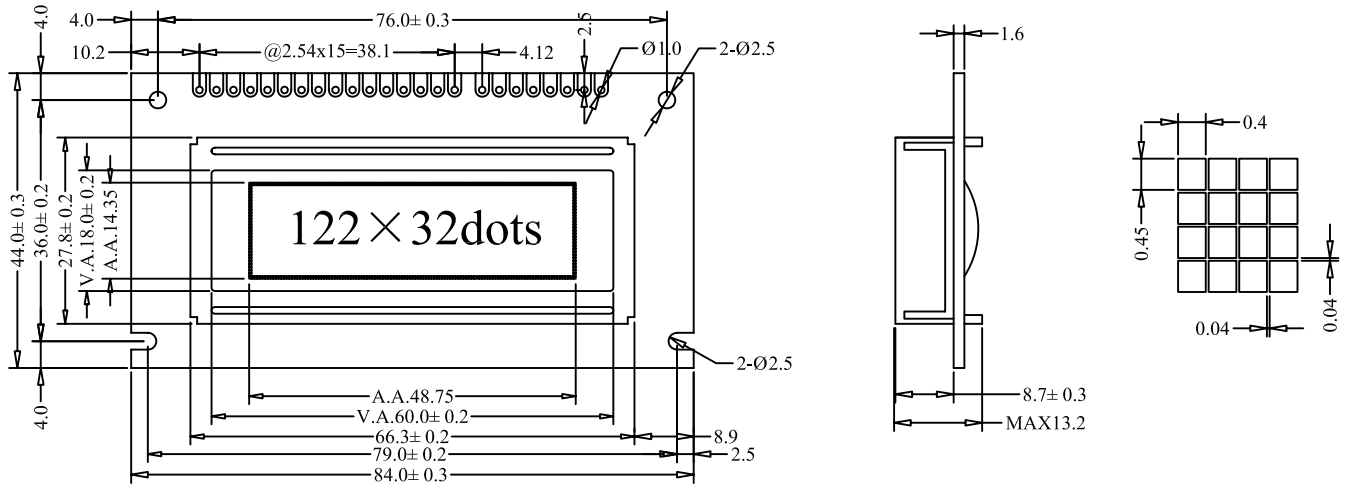


1. DIMENSION OUTLINE



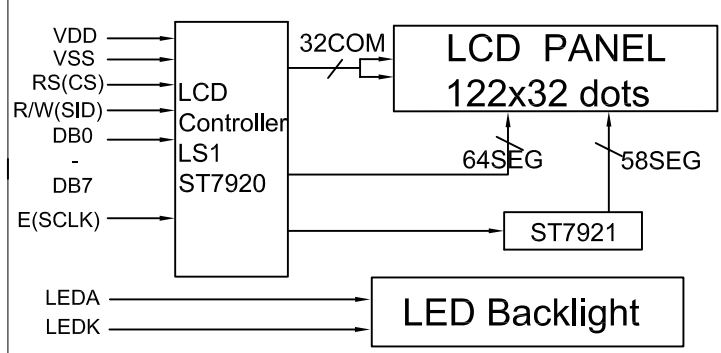
2. MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	84.0×44.0×13.0	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)	0.40×0.45	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 _{DD}	Ta=25°C	-0.3V	5.5V
LCD Voltage	V _{LCD}		-0.3V	7V
Input Voltage	V _I		-0.3V	V _{DD} +0.3V
Operation Temperature	T _{OP}	—	-20°C	70°C
Storage Temperature	T _{st}	—	-30°C	80°C

4. BLOCK DIAGRAM MECHANICAL



5. LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25°C				
Forward Voltage	V _f	4.1	4.3	V
Forward Current	I _f	90	—	mA
Emission Wave Length	λ _P	572	—	nm

6. INTERFACE PIN CONNECTIONS

ITEM1	ITEM2	SYMBOL	LEVEL	FUNCTIONS
1	1	VSS	0V	Power Ground
2	2	VDD	+5V	Power Supply For Logic
3	3	V0	—	Contrast adjust
4	6	RS(CS)	H/L	H:data L:command (Chip enable for serial mode)
5	5	R/W(SID)	H/L	H:read L:write (serial data for serial mode)
6	4	E(SCLK)	H.H→L	Enable signal (Serial clock)
7-14		DB0-DB7	H/L	Data bus line
15	7	LEDA	+5V	Power supply For LED Backlight
16	8	LEDK	0V	

7. ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25°C					
Logic Power	V _{DD}	4.5	5	5.5	V
Input High Voltage	V _{IH}	0.7VDD	—	V _{DD}	V
Input Low Voltage	V _{IL}	-0.3	—	0.6	V
Output High Voltage	V _{OH}	0.8VDD	—	V _{DD}	V
Output Low Voltage	V _{OL}	0	—	0.4	V
Logic Current	I _{DD}	—	3	5	mA
Operation Voltage For LCD	V0.GND	—	5	—	V