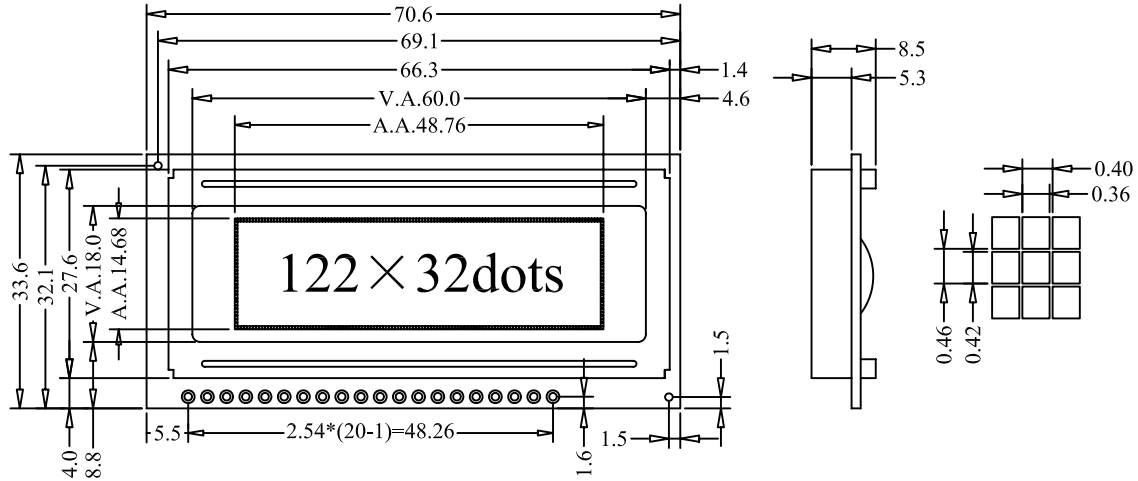


## 1.DIMENSION OUTLINE



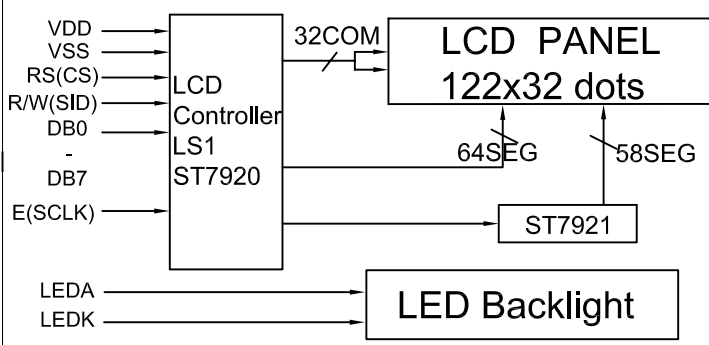
## 2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	70.6×33.6×8.5	mm	Reference Dimensional Outline
View Area(W×H)	60.0×18.0	mm	
Effective V/Area	48.76×14.68	mm	
Number of Characters	122×32	-	
Dot Pitch(W×H)	0.40×0.46	mm	
Dot Size(W×H)	0.36×0.42	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

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	VSS	0V	Power Ground
2	VDD	+5V	Power Supply For Logic
3	V0/NC	—	Contrast adjust /No Connection
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	PSB	H/L	Interface Selection H: Parallel L: Serial
16	Reset	H/L	Reset signal
17	LEDA	+5V	Power supply For LED Backlight
18	LEDK	0V	
19	NC	—	No Connection
20	NC	—	No Connection

## 5.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25°C				
Forward Voltage	V <sub>f</sub>	3.0	3.1	V
Forward Current	I <sub>f</sub>	30	—	mA
Emission Wave Length	λ <sub>p</sub>	white	—	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-V0</sub>	—	5	—	V