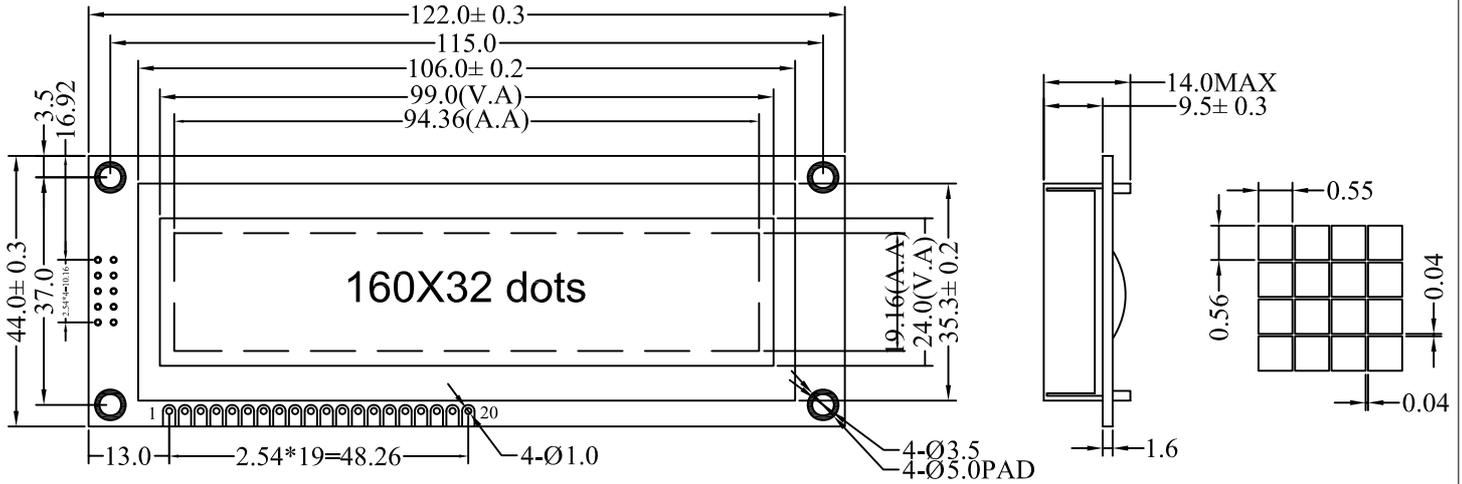


1. DIMENSION OUTLINE



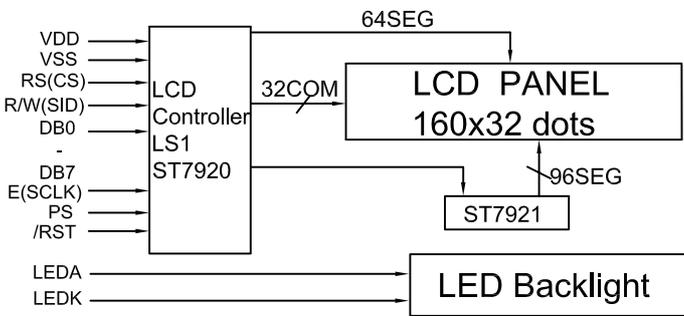
2. MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	122.0×44.0×14.0	mm	Reference Dimensional Outline
View Area(W×H)	99.0×24.0	mm	
Effective V/Area	94.36×19.16	mm	
Number of Characters	160×32	-	
Dot Pitch(W×H)	0.59×0.60	mm	
Dot Size(W×H)	0.55×0.56	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 DIAGRAMMECHANICAL



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>	200	—	mA
Emission Wave Length	λ <sub>P</sub>	568	—	nm

6. INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	VSS	0V	Power Ground
2	VDD	+5V	Power Supply For Logic
3	V0	—	Contrast adjust
4	RS	H/L	H:data L:command
5	R/W	H/L	H:read L:write
6	E	H.H→L	Enable signal
7-14	DB0-DB7	H/L	Data Bus
15	PSB	H/L	H:Parallel mode L:Serial mode
16	/REST	L	Reset signal
17	VOUT	—	Output voltage for LCD
18	LEDA	+5V	Power supply For LED Backlight
19	LEDK	0V	
20	NC	—	No connection

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	V0-GND	—	6.5	—	V