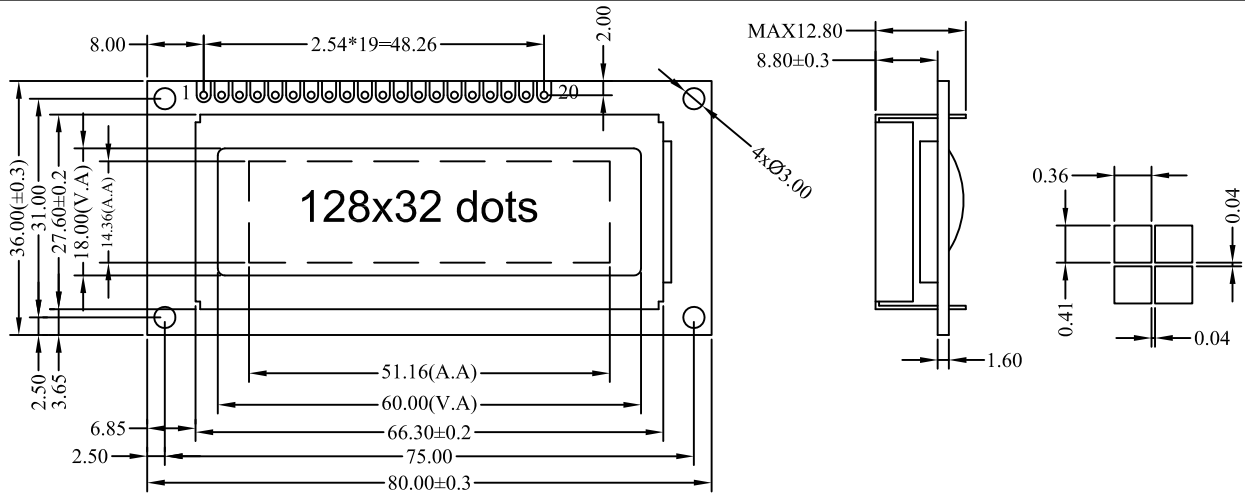


1. DIMENSION OUTLINE



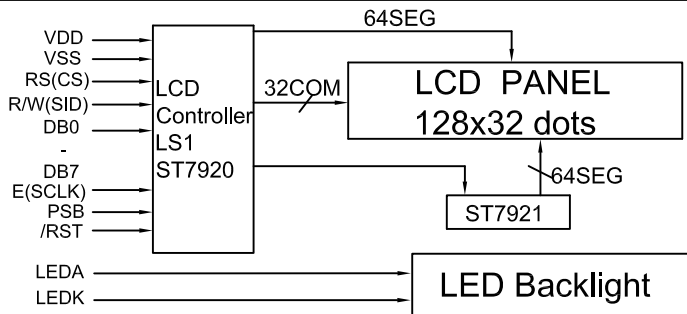
2. MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	80.0×36.0×12.8	mm	Reference Dimensional Outline
View Area(W×H)	60.0×18.0	mm	
Effective V/Area	51.16×14.36	mm	
Number of Characters	128×32	-	
Dot Pitch(W×H)	0.40×0.45	mm	
Dot Size(W×H)	0.36×0.41	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	5.25V
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>	2.9	3.1	V
Forward Current	I <sub>f</sub>	15	—	mA
Emission Vave Length	λ <sub>P</sub>	568	—	nm

6. INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	V0	—	Contrast adjust
2	VEE	—	LCD Driving Voltage
3	VSS	0V	Power Ground
4	VDD	+5V	Power Supply For Logic
5	NC	—	No Connection
6	RS(CS)	H/L	H:data L:command
7	R/W(SID)	H/L	H:read L:write
8	E(SCK)	H.H→L	Enable signal
9-16	DB0-DB7	H/L	Data Bus
17	PSB	H/L	H:Parallel mode L:Serial mode
18	/RST	L	Reset signal
19	LEDA	+5V	Power supply For LED Backlight
20	LEDK	0V	

7. ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25°C					
Logic Power	V <sub>DD</sub>	4.75	5	5.25	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>0-GND</sub>	—	4.8	—	V