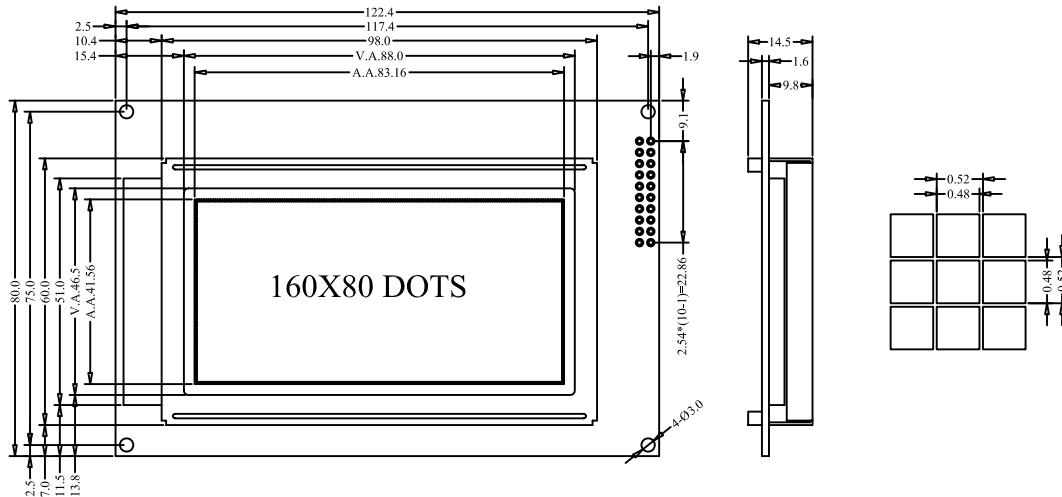


1.DIMENSION OUTLINE



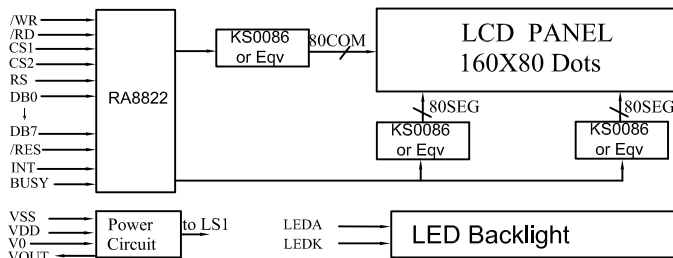
2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	122.4×80.0×14.5	mm	Reference Dimensional Outline
View Area(W×H)	88.0×46.5	mm	
Effective V/Area	83.16×41.56	mm	
Number of Characters	160×80	-	
Dot Pitch(W×H)	0.52×0.52	mm	
Dot Size(W×H)	0.48×0.48	mm	
Weight (Reflective/Led)	-	g	

3.ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V _{DD}	Ta=25°C	-0.3V	7V
LCD Voltage	V _{LCD}		-0.3V	25V
Input Voltage	V _I		-0.3V	V _{DD} +0.3V
Operation Temperature	T _{OP}	—	-20°C	70°C
Storage Temperature	T _{ST}	—	-30°C	90°C

4.BLOCK DIAGRAM MECHANICAL



5.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25°C				
Forward Voltage	V _f	3.0	3.2	V
Forward Current	I _f	75	—	mA
Emission Wave Length	λ _P	568	—	nm

6.INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	LEDK	0V	Power supply for LED Backlight
2	LEDA	+5V	
3	VSS	0V	Power Ground
4	VDD	+5V	Power supply for logic
5-12	DB0-DB7	H/L	Data Bus
13	BUSY	H/L	Busy signal
14	RS	H/L	H:command L:data
15	/REST	L	Reset signal
16	/WR	L	Write signal
17	/RD	L	Read signal
18	/CS1	L	Chip selection
19	V0	—	Contrast adjust
20	VOUT	—	Output voltage for LCD driving

7.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25°C					
Logic Power	V _{DD}	4.75	5	5.25	V
Input High Voltage	V _{IH}	V _{DD} -2.2	—	V _{DD}	V
Input Low Voltage	V _{IL}	0	—	0.8	V
Output High Voltage	V _{OH}	V _{DD} -0.3	—	V _{DD}	V
Output Low Voltage	V _{OL}	0	—	0.3	V
Logic Current	I _{DD}	—	—	20	mA
Operation Voltage For LCD	V _{DD} -V ₀	—	12.5	—	V