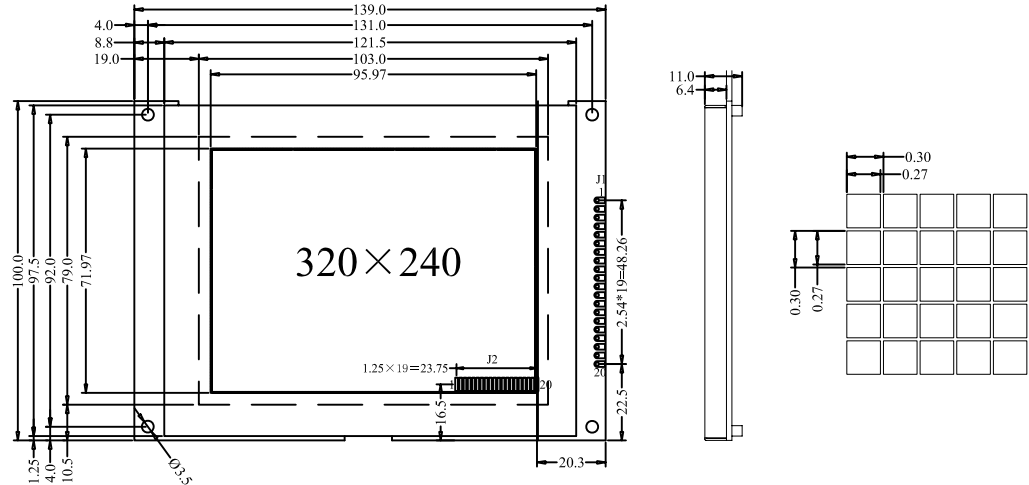


1. DIMENSION OUTLINE



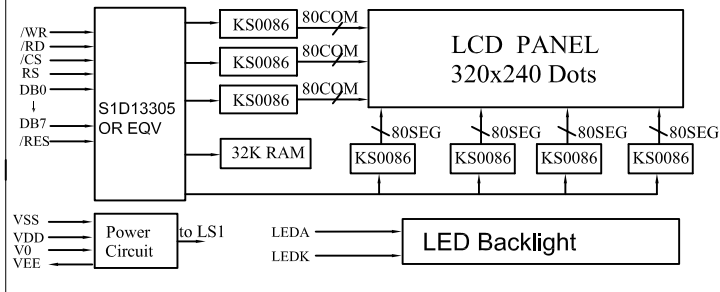
2. MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	139.0×100.0×11.0	mm	Reference Dimensional Outline
View Area(W×H)	103.0×79.0	mm	
Effective V/Area	95.97×71.97	mm	
Number of Characters	320×240	-	
Dot Pitch(W×H)	0.30×0.30	mm	
Dot Size(W×H)	0.27×0.27	mm	

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	80°C

4. BLOCK DIAGRAM MECHANICAL



6. INTERFACE PIN CONNECTIONS

ITEM (Controller)		SYMBOL	LEVEL	FUNCTIONS
J1	J2			
1	1	VSS	0V	Power Ground
2	2	VDD	+5V	Power supply for logic
3	3	V0	—	Contrast adjust
4	5	/WR	L	Write signal
5	6	/RD	L	Read signal
6	15	/CS	L	Chip enable signal
7	4	RS	H/L	H:command L:data
8	16	/REST	L	Reset signal
9-16	7-14	DB0-DB7	H/L	Data Bus
17		LEDA	+5V	Backlight Anode
18	17	VEE	—	Output voltage for LCD driving
19	19	LEDA	+5V	Backlight Anode
20	20	LEDK	0V	Backlight Cathode
	18	SEL1	H/L	H:6800 interface L:8080 interface

5. LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25°C				
Forward Voltage	V _f	3.0	3.1	V
Forward Current	I _f	150	—	mA
Emission Wave Length	λ _P	White	—	nm

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}	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}	—	—	170	mA
Operation Voltage For LCD	V _{DD} -V ₀	—	23	—	V

ITEM(No Controller)		SYMBOL	LEVEL	FUNCTIONS
J1	J2			
1		FLM	H/L	Scan Start Line
2		LP	H/L	Data latch pulse
3		CP	H/L	Data shift pulse
4		M	H/L	Frame Signal
5		V0	—	Contrast adjust
6		VDD	+5V	Power supply for logic
7		VSS	0V	Power Ground
8		VOUT	—	Output voltage for LCD driving
9-12		D0-D3	H/L	Display Data Bus
13		DISP	H/L	Display ON/OFF
14		FG	H/L	Frame Ground