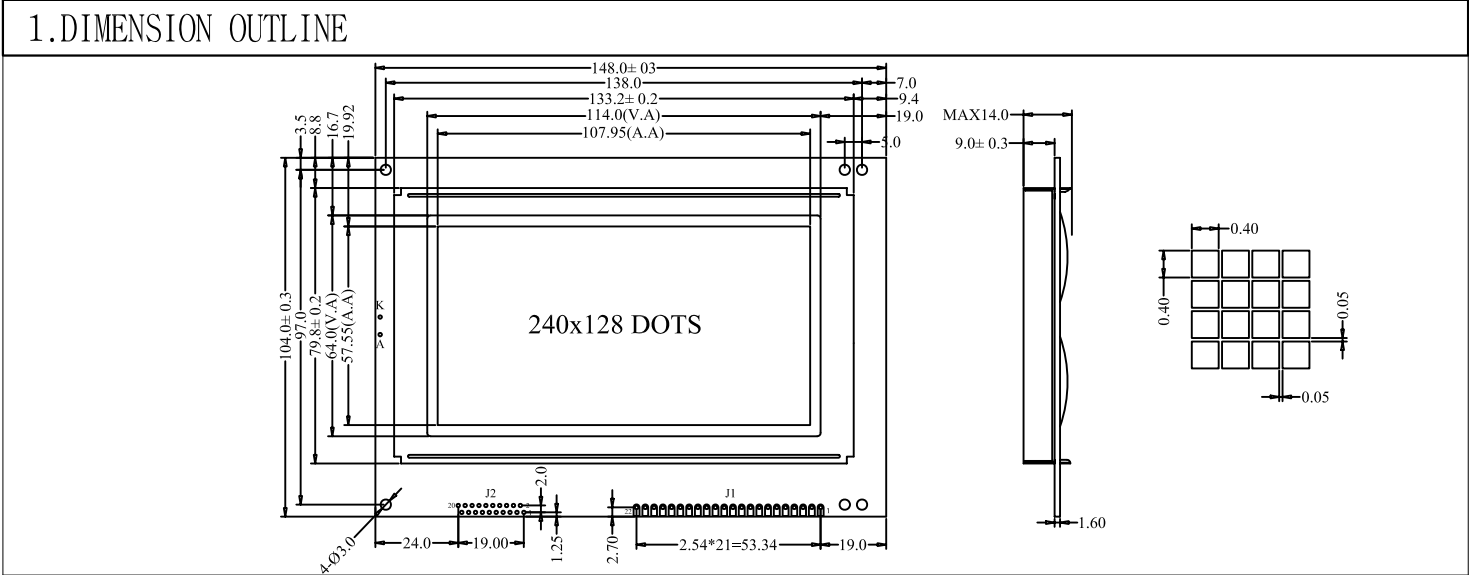


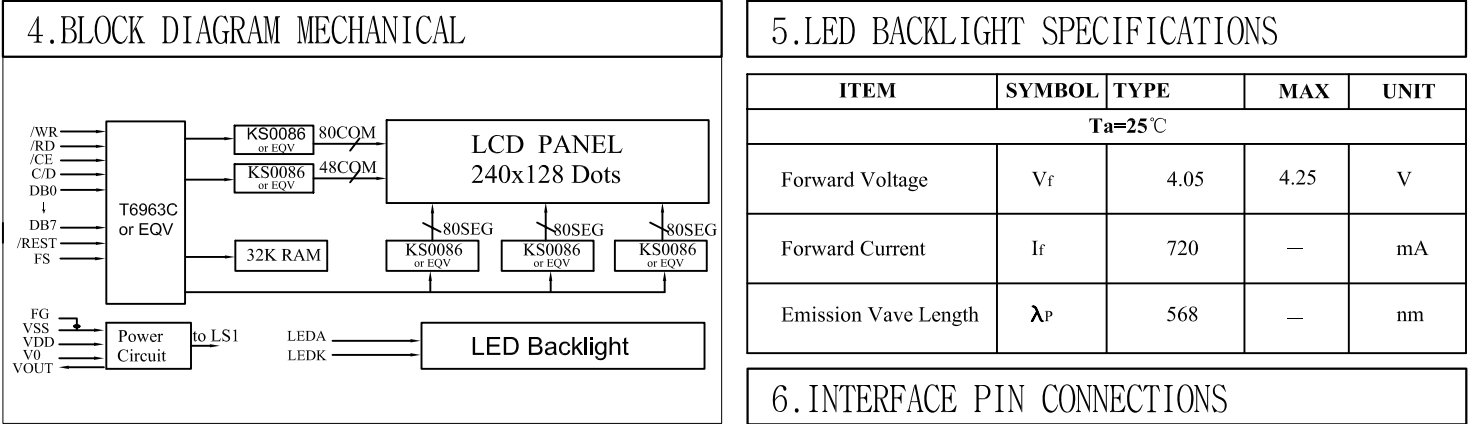


2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	144.0×104.0×14.0	mm	Reference Dimensional Outline
View Area(W×H)	114.0×64.0	mm	
Effective V/Area	107.95×57.55	mm	
Number of Characters	240×128	-	
Dot Pitch(W×H)	0.45×0.45	mm	
Dot Size(W×H)	0.40×0.40	mm	
Weight (Reflective/Led)	-	g	

3.ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V _{DD}	Ta=25℃	-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℃	70℃
Storage Temperature	T _{ST}	—	-30℃	80℃



5.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25℃				
Forward Voltage	V _f	4.05	4.25	V
Forward Current	I _f	720	—	mA
Emission Vave Length	λ _P	568	—	nm

6.INTERFACE PIN CONNECTIONS

ITEM		SYMBOL	LEVEL	FUNCTIONS
J1	J2			
1	1	FG	—	Frame Ground
2	2	VSS	0V	Power Ground
3	3	VDD	+5V	Power supply for logic
4	4	V0	—	Contrast adjust
5	5	/WR	L	Write signal
6	6	/RD	L	Read signal
7	7	/CS	L	Chip selection signal
8	8	C/D	H/L	H:command L:data
9		NC	—	No connection
10	9	/RST	L	Reset signal
11-18	10-17	DB0-DB7	H/L	Data Bus
19		FS	H/L	Font selection L:8x8 H:6x8
20	18	VEE	—	Negative power output
21	19	LEDA	+5V	Power supply for LED Backlight
22	20	LEDK	0V	

7.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25℃					
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}	—	15	25	mA
Operation Voltage For LCD	V _{DD} -V0	—	18	—	V