深圳市科飞研科技有限公司
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G24064-2	240 DOTS×64 DOTS	1/64 DUTY	1/9 BIAS

FEATURE:

LCD TYPE	STN/FSTN
LCM BACKLIGHT TYPE	EL/FL /LED BACKLIGHT
LCM CONTROLLER IC	BUILT IN LC7981 OR EQUIVALENT
POWER SUPPLY FOR LCM	DC +5.0V
LED BACKLIGHT INPUT	DC +5.0V
EL BACKLIGHT INPUT	
EL INVERTER	
FL BACKLIGHT INPUT	
FL INVERTER	
LCM DIMENSION	180.0× 65.0× 11.0(13.0) mm
LCM VIEWING AREA	132.0× 39.0 mm
LCD DOT SIZE	0.49× 0.49 mm
LCD DOT PITCH	0.53× 0.53 mm

3.ABSOLUTE MAXIMUM RATINGS:

ITEM	SYM	MIN	TYP	MAX	UNIT
OPERATING TEMP.	TOP	-20	-	+70	℃
STORAGE TEMP.	TST	-30	-	+80	℃
INPUT VOLTAGE	VI	VSS	-	VDD	V
SUPPLY VOL. FOR LOGIC	VDD-VSS	-	-	7.0	V
SUPPLY VOL. FOR LCD	VDD-VEE	-	-	10.0	V

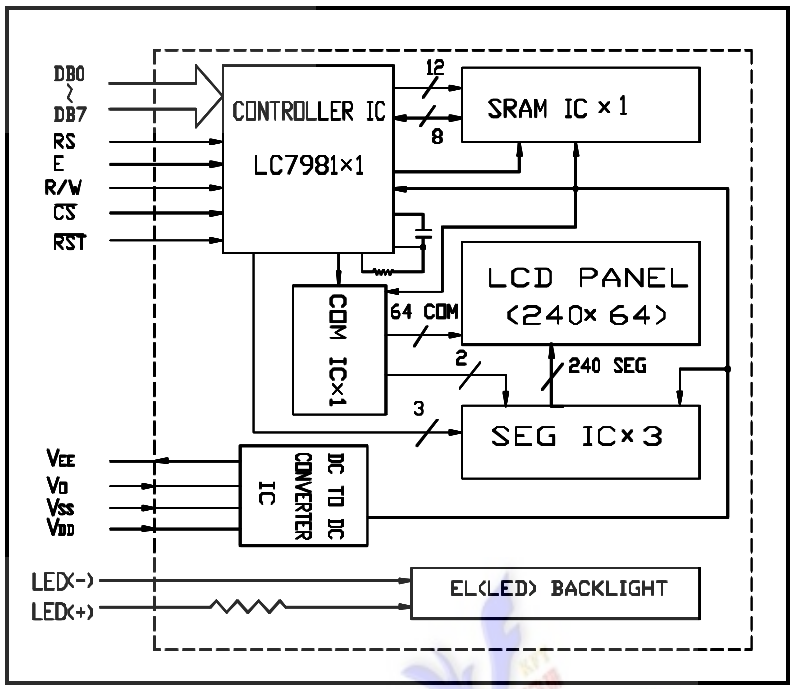
5.INTERFACE PIN CONNECTIONS:

NO	SYM	LEVEL	FUNCTION
1	VSS	-	0V
2	VDD	-	+5V
3	VO	-	CONTRAST ADJ.
4	D/I	H/L	H:DATA, L:INSTRUCTION CODE
5	R/W	H/L	H:READ(LCD →MPU) L:WRITE(MPU→ LCD)
6	E	H.H→L	ENABLE SIGNAL
7	DB0	H/L	DATA BIT0
8	DB1	H/L	DATA BIT1
9	DB2	H/L	DATA BIT2
10	DB3	H/L	DATA BIT3
11	DB4	H/L	DATA BIT4
12	DB5	H/L	DATA BIT5
13	DB6	H/L	DATA BIT6
14	DB7	H/L	DATA BIT7
15	$\overline{CS}$	H/L	CHIP ENABLE SIGNAL
16	$\overline{RST}$	L	RESET SIGNAL
17	VEE	-	NEGATIVE VOLTAGE OUTPUT (-5.0V)
18	N.C	-	NO CONNECTION
19	A(+)	+5.0V	BACKLIGHT(+)
20	K(-)	0V	BACKLIGHT(-)

2.ELECTRICAL CHARACTERISTICS:

ITEM	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	VDD-VSS	Ta= 2 5℃	4.5	5.0	5.5	V
SUPPLY VOLTAGE FOR LCD DRIVER	VEE-VSS	Ta= 2 5℃	-	-	-5.0	V
OPERATING VOL. FOR LCD MODULE	VDD-VO	Ta= 2 5℃	-	9.0	-	V
INPUT HIGH VOL	VIH	—	0.7VDD	-	VDD	V
INPUT LOW VOL.	VIL	—	0	-	0.3VDD	V
SUPPLY CURRENT FOR LOGIC	IDD	VDD=5.0V	-	-	15.0	mA
SUPPLY CURRENT FOR LCD	ILCD	VO=-4.0V	-	-	17.0	mA
LED CURRENT	IF	Ta= 2 5℃	-	350	-	mA
LED DISSIPATION	PD	Ta= 2 5℃	-	1750	-	mW

4. BLOCK DIAGRAM:



6.DIMENSIONAL DRAWING :