

<h1>G240128-6</h1>	240 DOTS×128 DOTS	1/128 DUTY	1/12 BIAS
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FEATURE:

LCD TYPE	STN/FSTN
LCM BACKLIGHT TYPE	LED BACKLIGHT
LCM DRIVER IC	BUILT IN S6B0086 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	144.0×104.0×13.0 mm
LCM VIEWING AREA	114.0×64.0 mm
LCD DOT SIZE	0.44×0.44 mm
LCD DOT PITCH	0.48×0.48 mm

3.ABSOLUTE MAXIMUM RATINGS:

ITEM	SYM	MIN	TYP	MAX	UNIT
OPERATING TEMP.	TOP	-10	-	+70	
STORAGE TEMP.	TST	-20	-	+80	
INPUT VOLTAGE	Vi	VSS	-	VDD	V
SUPPLY VOL. FOR LOGIC	VDD-VSS	-	-	7.0	V
SUPPLY VOL. FOR LCD	VDD-VEE	15.0	-	-	V

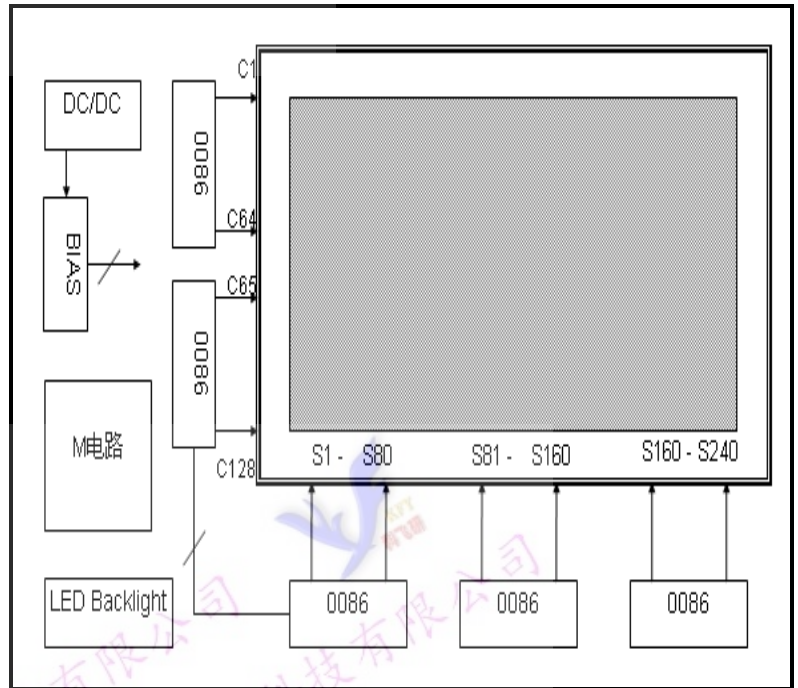
5.INTERFACE PIN CONNECTIONS:

NO	SYM	LEVEL	FUNCTION
1	VSS	-	0V
2	DB0	H/L	DATA BIT0
3	DB1	H/L	DATA BIT1
4	DB2	H/L	DATA BIT2
5	DB3	H/L	DATA BIT3
6	CP2	H/L	DATA SHIFT CLOCK
7	CP1	H/L	DATA LATCH
8	S	H/L	SEG DATA
9	M	H/L	FRAME REVERSE SIGNAL
10	VEE	-	NEGATIVE VOLTAGE INPUT (-10.0V)
11	VDD	-	+5V
12	LED(+)	---	LED BACKLIGHT +5.0V
13	VSS	-	0V
14	T1		
15	T2		?????? (???????)
16	T3		
17	T4		
18	VSS	-	0V
19	LED(+)	---	LED BACKLIGHT +5.0V
20	VSS	-	0V

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	-	13.0	-	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=-8.0V	-	-	20.0	mA
LED CURRENT	IF	Ta = 2 5	-	300	-	mA
LED DISSIPATION	PD	Ta = 2 5	-	1500	-	mW

4. BLOCK DIAGRAM:



6.DIMENSIONAL DRAWING :

