

G19264D	192 DOTS×64 DOTS	1/64 DUTY	1/9 BIAS
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FEATURE:

LCD TYPE	STN
LCM BACKLIGHT TYPE	LED BACKLIGHT
LCM DRIVER IC	BUILT IN KS0086 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	130*65*13 mm
LCM VIEWING AREA	104*39 mm
LCD DOT SIZE	0.45*0.45 mm
LCD DOT PITCH	0.50*0.50 mm

3.ABSOLUTE MAXIMUM RATINGS:

ITEM	SYM	MIN	TYP	MAX	UNIT
OPERATING TEMP.	T _{OP}	-20	-	+70	
STORAGE TEMP.	T _{ST}	-30	-	+80	
INPUT VOLTAGE	V _I	V _{SS}	-	V _{DD}	V
SUPPLY VOL. FOR LOGIC	V _{DD-VSS}	-	-	8.5	V
SUPPLY VOL. FOR LCD	V _{DD-VEE}	-	-	15.0	V

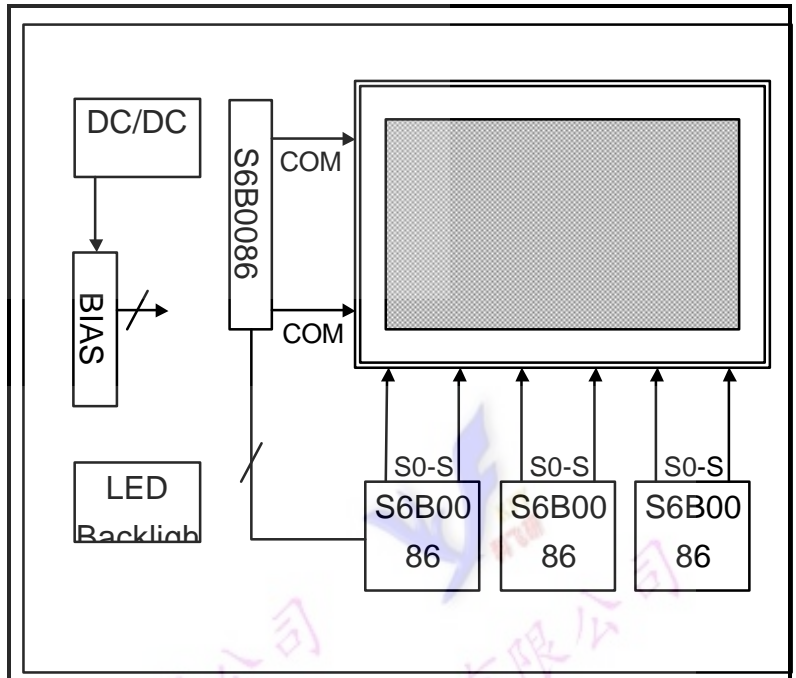
5.INTERFACE PIN CONNECTIONS:

NO	SYM	LEVEL	FUNCTION
1	V _{DD}	-	+5V
2	V _{SS}	-	0V
3	DISP	H/L	H:OPEN L:COLSE
4	S	H/L	SEG DATA
5	CP1	H/L	DATA LATCH
6	CP2	H/L	DATA SHIFT CLOCK
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	M	H/L	FRAME REVERSE SIGNAL
12	V _{EE}	-	NEGATIVE VOLTAGE OUTPUT (-10.0V)
13	LED(+)		+5.0V LED BACKLIGHT
14	LED(-)		0V

2.ELECTRICAL CHARACTERISTICS:

ITEM	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD-VSS}	T _a = 2 5	4.5	5.0	5.5	V
SUPPLY VOLTAGE FOR LCD DRIVER	V _{EE-VSS}	T _a = 2 5	-	-	-5.0	V
OPERATING VOL. FOR LCD MODULE	V _{DD-Vo}	T _a = 2 5	-	8.0	-	V
INPUT HIGH VOL.	V _{IH}	-	0.7V _{DD}	-	V _{DD}	V
INPUT LOW VOL.	V _{IL}	-	0	-	0.3V _{DD}	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5.0V	-	-	7.0	mA
SUPPLY CURRENT FOR LCD	I _{LCD}	V _o =-3.0V	-	-	12.0	mA
LED CURRENT	I _F	T _a = 2 5	-	300	-	mA
LED DISSIPATION	P _D	T _a = 2 5	-	1500	-	mW

4. BLOCK DIAGRAM:



6.DIMENSIONAL DRAWING :

