

G12864-6	128 DOTS×64 DOTS	1/64 DUTY	1/9 BIAS
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FEATURE:

LCD TYPE	STN/FSTN
LCM BACKLIGHT TYPE	LED BACKLIGHT
LCM CONTROLLER IC	T6963C
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	78.0*70*12.5 mm
LCM VIEWING AREA	62*44 mm
LCD DOT SIZE	0.40*0.56 mm
LCD DOT PITCH	0.44*0.60 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	-	-	12.5	V
SUPPLY VOL. FOR LCD	VDD-VEE	-	-	15.0	V

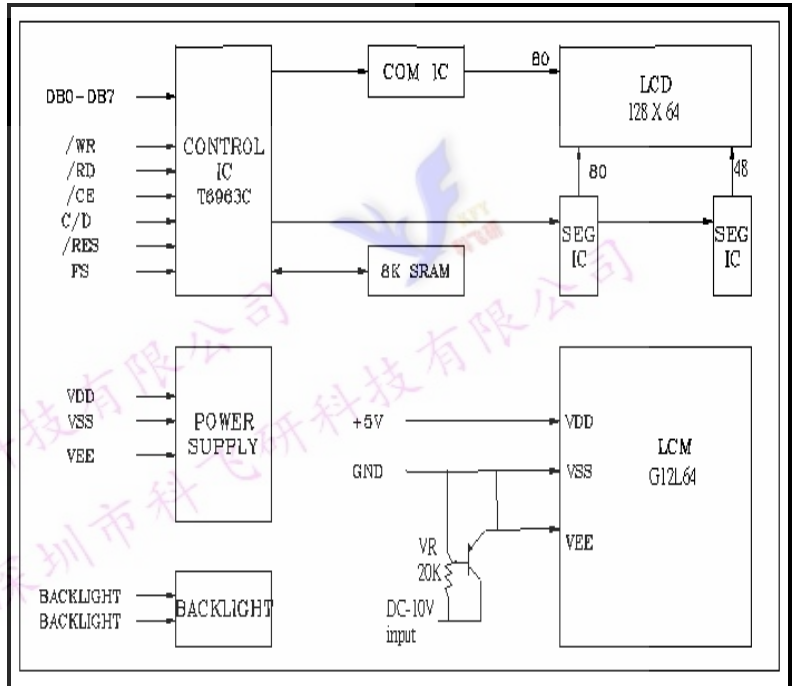
5.INTERFACE PIN CONNECTIONS:

NO	SYM	LEVEL	FUNCTION
1	FGND	----	Frame ground
2	Vss	-	0V
3	Vdd	-	+5V
4	Vo	-	CONTRAST ADJ.
5	R/W	H/L	H:READ(LCD → MPU) L:WRITE(MPU → LCD)
6	/RD	H/L	Data read
7	/CE	H/L	Chip enable
8	C/D	H/L	Command Data
9	/REST	H/L	Controller reset
10	DB0	H/L	DATA BIT0
11	DB1	H/L	DATA BIT1
12	DB2	H/L	DATA BIT2
13	DB3	H/L	DATA BIT3
14	DB4	H/L	DATA BIT4
15	DB5	H/L	DATA BIT5
16	DB6	H/L	DATA BIT6
17	DB7	H/L	DATA BIT7
18	FS	H/L	Font Select H:6*8 L:8*8
19	K(-)	0V	BACKLIGHT(-)
20	A(+)	+5.0V	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	-	8.0	-	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	-	-	7.0	mA
SUPPLY CURRENT FOR LCD	ILCD	Vo=-3.0V	-	-	12.0	mA
LED CURRENT	If	Ta = 2 5	-	350	-	mA
LED DISSIPATION	Pd	Ta = 2 5	-	1750	-	mW

4. BLOCK DIAGRAM:



6.DIMENSIONAL DRAWING :

