

<b>YMG12864-2</b>	128 DOTS×64 DOTS	1/64 DUTY	1/9 BIAS
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**FEATURE:**

LCD TYPE	STN/FSTN
LCM BACKLIGHT TYPE	LED/EL BACKLIGHT
LCM CONTROLLER IC	BUILT IN S6B0108 OR EQUIVALENT
POWER SUPPLY FOR LCM	DC +5.0V OR 3.30V
LED BACKLIGHT INPUT	DC +5.0V OR 3.30V
EL BACKLIGHT INPUT	---
EL INVERTER	---
FL BACKLIGHT INPUT	-
FL INVERTER	-
LCM DIMENSION	54.0*50*7.5 mm
LCM VIEWING AREA	43.5*29 mm
LCD DOT SIZE	0.28*0.35 mm
LCD DOT PITCH	0.32*0.39 mm

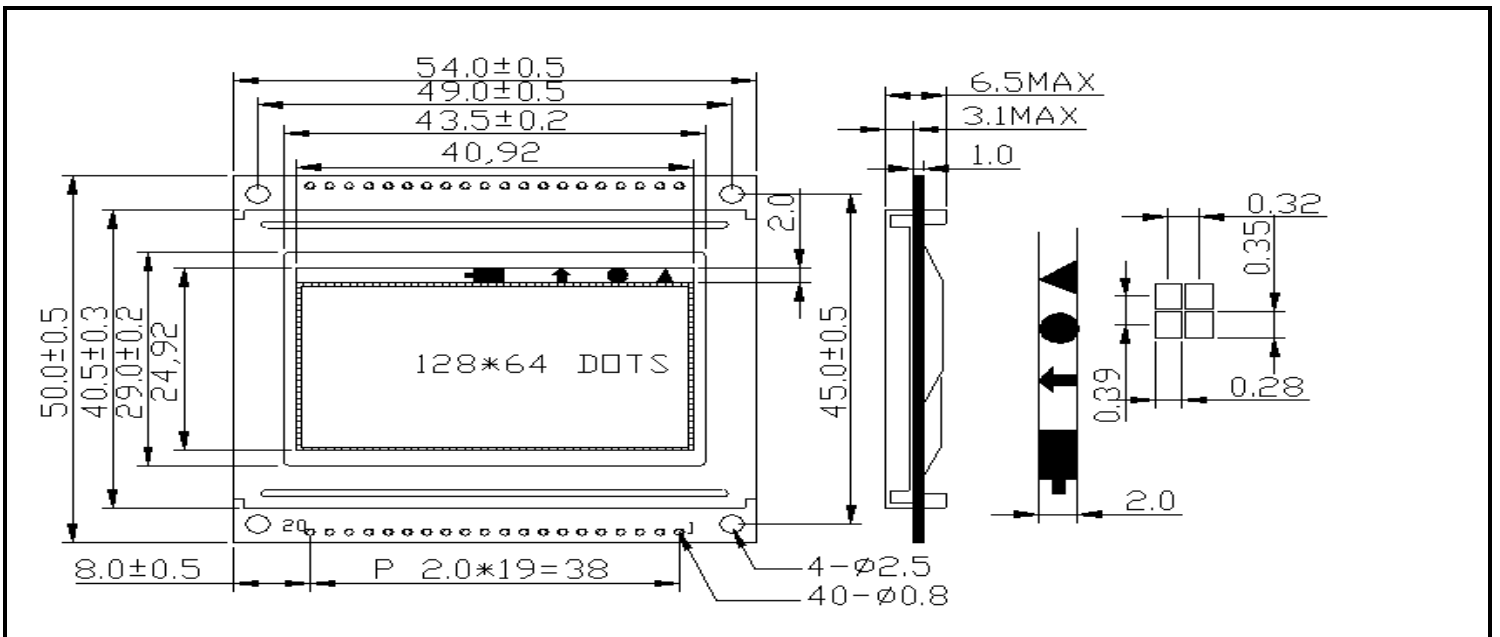
**3.ABSOLUTE MAXIMUM RATINGS:**

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	CS1	H	CHIP SELECT SIGNAL FOR IC1
16	CS2	H	CHIP SELECT SIGNAL FOR IC2
17	RST	L	RESET SIGNAL
18	VEE	-5.0V	NEGATIVE VOLTAGE OUTPUT (-5.0V)
19	A(+)	+5.0V	LED BACKLIGHT(+)
20	K(-)	0V	LED BACKLIGHT(-)

**6.DIMENSIONAL DRAWING :**



**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	-	60	-	mA
LED DISSIPATION	Pd	Ta = 2 5	-	300	-	mW

**4. BLOCK DIAGRAM:**

