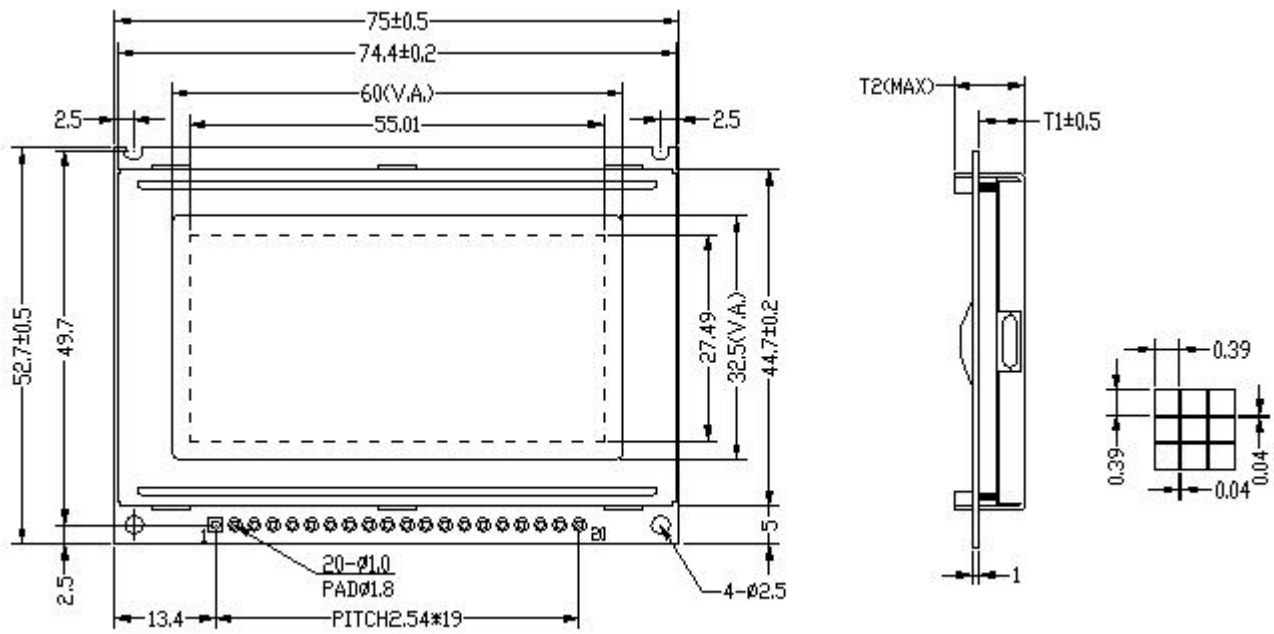
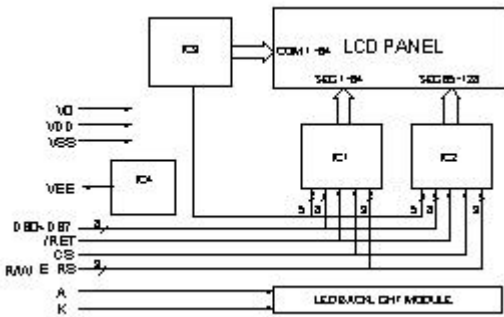


# GDM12864H



Unit:mm

## BLOCK DIAGRAM



## INTERFACE PIN CONNECTIONS

PIN NO.	SYMBOL	FUNCTION
1	VDD	Power supply
2	VSS	
3	V0	Contrast adjustment
4-11	DB0-DB7	H/L Data bus line
12	CS1	Chip select for IC1
13	CS2	Chip select for IC2
14	RST	Reser signal
15	RS	H/L Register select signal
16	R/W	H/L Read/Write signal
17	E	H/L Enable signal
18	VEE	Negative voltage output
19	A	+4.2V for BKL
20	K	Power supply for BKL (0V)

## THICKNESS

VERSION	T1	T2	UNIT
EL&NO BACKLIGHT	6.2	10.0	mm
LED BACKLIGHT	8.8	12.5	

## FEATURE

1. 128X64 dots graphic LCD module
2. Built in controller(S6B0108)
3. 5.0V power supply
4. STN; 1/64 duty; LED BKL or EL BKL

## MECHANICAL DATA

ITEM	STANDARD	UNIT
Module dimension	75.0×52.7	mm
Viewing area	60.0×32.5	mm
Dot size	0.39×0.39	mm
Dot pitch	0.43×0.43	mm

## MAXIMUM RATING

ITEM	SYMBOL	STANDARD			UNIT
		MIN.	TYP.	MAX.	
Power supply	VDD-VSS	-0.3	---	7.0	V
Input voltage	$V_i$	-0.3	---	VDD+0.3	

## ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD			UNIT
			MIN.	TYP.	MAX.	
Input voltage	VDD	-	4.5	5.0	5.5	V
		-	-	-	-	
Supply current	IDD	VDD=5.0	-	8	-	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20°C	-	-	-	V
		0°C	-	9.8	-	
		25°C	-	9.5	-	
		50°C	-	9.3	-	
LEDBKL voltage	VF	25°C	-	4.2	4.6	V
			-	-	-	
LEDBKL current	IF	VF=4.2V	-	240	-	mA