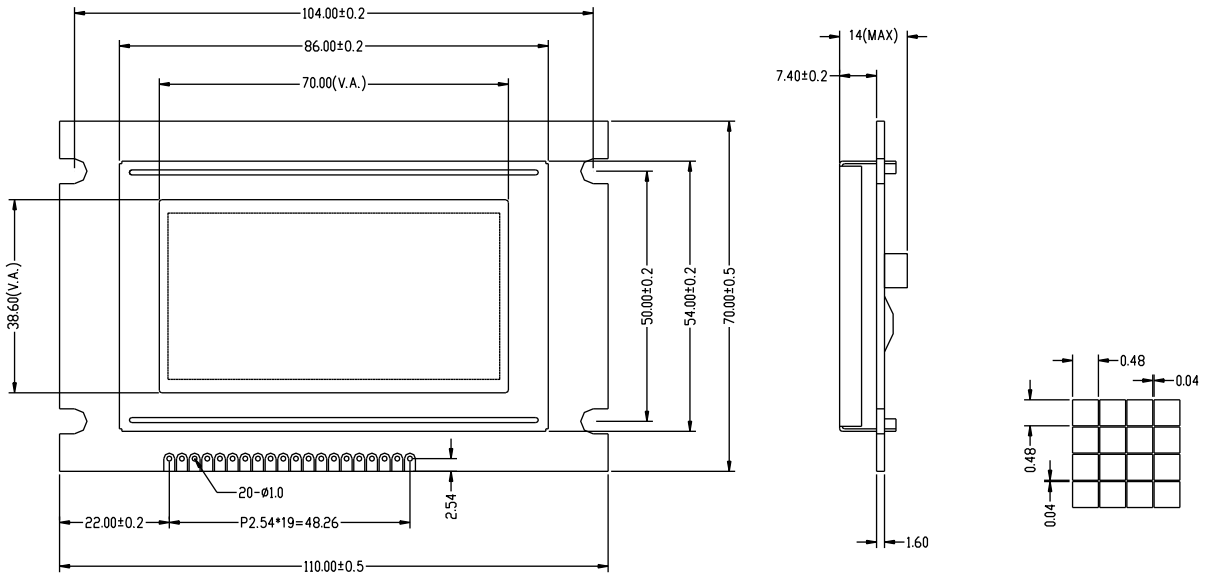
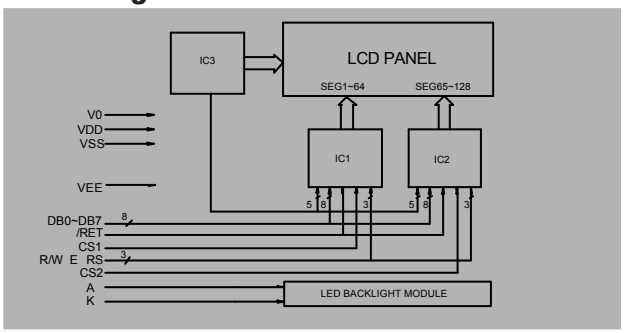
Outline Dimension



Block diagram



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	110.0x70.0	mm
Viewing area	70.0x38.6	mm
Dot size	0.48x0.48	mm
Dot pitch	0.52x0.520	mm

Interface pin connections

PIN NO	Symbol	Function
1	VDD	Power supply
2	VSS	
3	VO □	Contrast adjustment
4-11	DB0-DB7	H/L Register select signal
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	LED+	+4.2V for BKL
20	LED-	Power supply for BKL (0V)

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	-0.3	--------	7.0	V
Input voltage	VI	-0.3	--------	VDD+0.3	

Electronical characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	------	4.5	5.0	5.5	V
		------	------	------	------	V
Supply current	IDD	VDD=5V	------	4.5	6.5	mA
Recommended LCD vriving voltage for normal temp version module	VDD-V0	-20ºC	------	9.9	------	V
		0 ºC	-----	9.8	-----	
		25ºC	-----	9.5	-----	
		50ºC	-----	9.3	-----	
		70ºC	------	9.1	-----	
LED forward voltage	VF	25ºC	------	4.2	4.6	V
LED forward current	IF	VF=4.2V	------	250	------	mA
EL power supply current	IEL	VEL=110V AC 400Hz	-----	-------	------	mA