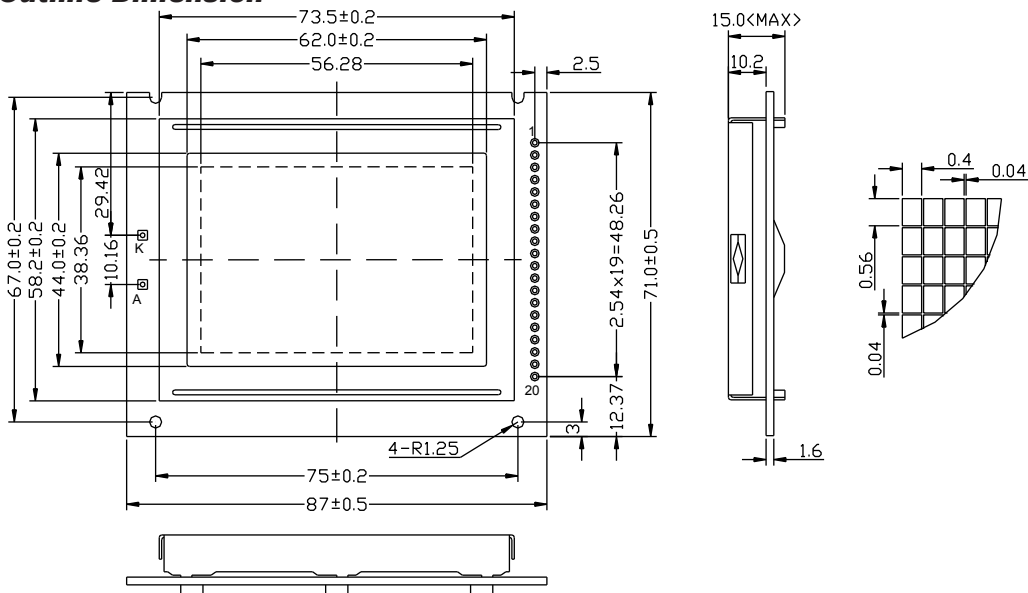
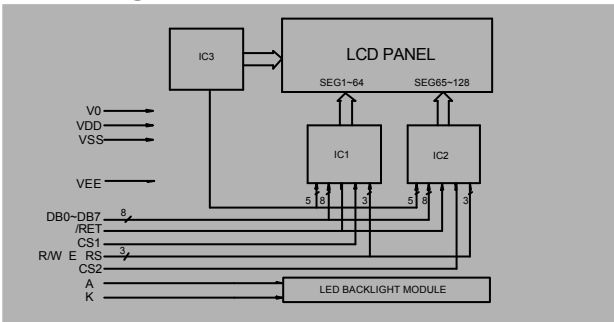




Outline Dimension



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	78.0x70.0	mm
Viewing area	62.0x44.0	mm
Dot size	0.40x0.56	mm
Dot pitch	0.44x0.60	mm

Interface pin connections

PIN NO	Symbol	Function
1	VSS	Power supply
2	VDD	
3	VO □	Contrast adjustment
4	RS □	H/L Register select signal
5	R/W □	H/L Read/Write signal
6	E	H/L Enable signal
7-14	DB0-DB7	H/L Data bus for 4 bit or 8 bit mode
15	CS1	Chip select for IC1
16	RST	Reset signal
17	VEE	Negative voltage output
18	CS2	Chip select for IC2
19	NC	-
20	NC	-

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
		-----	2.7	3.0	3.3	V
Supply current	I _{DD}	VDD=5V	-----	4.5	6.5	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20°C	-----	14.0	-----	V
		0 °C	-----	9.8	-----	
		25°C	-----	9.5	-----	
		50°C	-----	9.3	-----	
		70°C	-----	9.0	-----	
LED forward voltage	VF	25°C	-----	4.2	4.6	V
LED forward current	IF	VF=4.2V	-----	240	-----	mA
EL power supply current	I _{EL}	V _{EL} =110V AC 400Hz	-----	-----	-----	mA

THICKNESS

VERSION	T1	T1	UNIT
EL&NO BACKLIGHT	5.0	10.0	mm
LED BACKLIGHT	10.2	15.0	