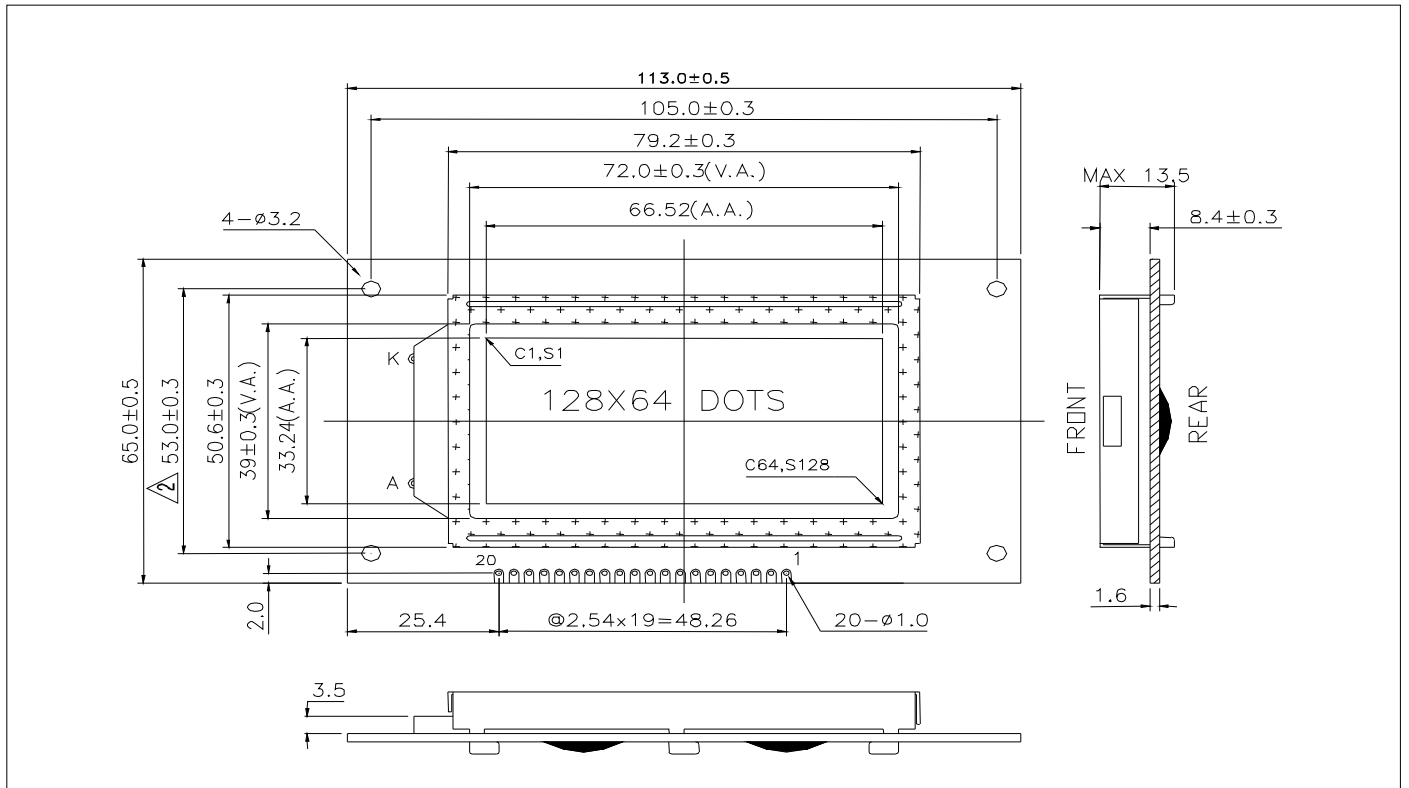
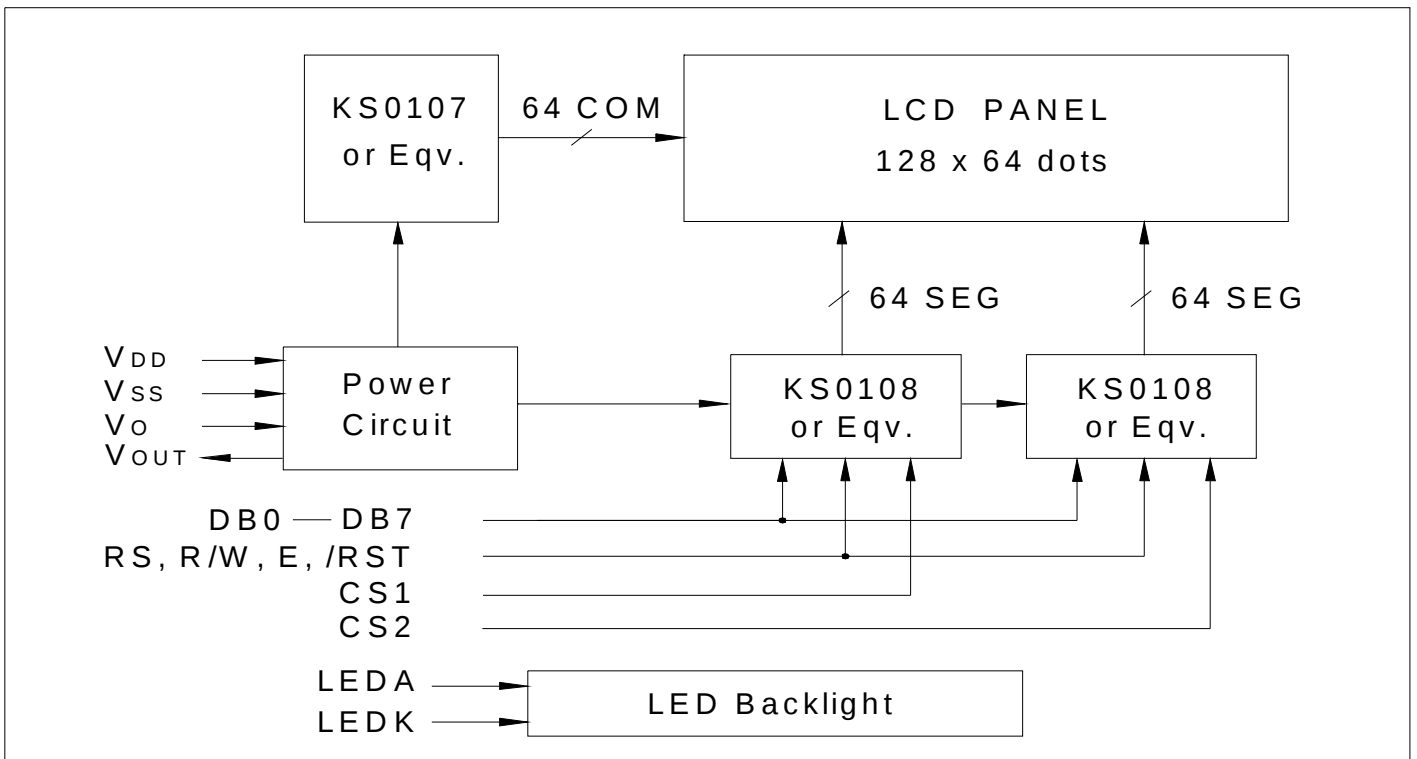


1.0 DIMENSIONAL DRAWING



2.0 BLOCK DIAGRAM



3.0 ELECTRICAL CHARACTERISTICS (VDD=5.0V ± 10%, Ta=25°C)

Item	Symbol	Test Condition	Standard Value			
			Min.	Typ.	Max.	Unit
Supply Voltage(Logic)	V_{DD}	25°C	--	5.0	--	V
LCD Operation Voltage	V_{OP} (FSTN)		--	11.5	--	V
LCM Current Consumption	I_{DD}		--	--	10.0	mA
EL Backlight Voltage	V_F		--	5.0	--	V

4.0 ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Test Condition	Standard Value		
			Min.	Max.	Unit
Supply Voltage (Logic)	$V_{DD}-V_{SS}$	25°C	-0.3	7.0	V
Supply Voltage (LCD)	$V_{DD}-V_O$		VDD-19.0	19.0	V
Input Voltage	V_{IN}		VLCD-0.3	VDD+0.3	V
Operating Temp.	T_{OPR}		-20	70	°C
Storage Temp.	T_{STG}		-30	80	°C

5.0 PIN ASSIGNMENT

Pin No.	Symbol	Level	Function
1	VSS	0V	Ground
2	VDD	+5V	Power supply for logic
3	VO	-	Operating voltage for LCD
4	RS	H/L	Register selection H: Display data L: Instruction code
5	R/W	H/L	Read/Write selection H: Read operation L: Write operation
6	E	H, H→L	Enable signal. Read data when E is "H", write data at the falling edge of E.
7~14	DB0~DB7	H/L	Data bit0~Data bit7
15	CS1	H	Chip selection for IC1, active "H"
16	CS2	H	Chip selection for IC2, active "H"
17	/RST	L	Reset signal, active "L"
18	VOUT	-10V	Output voltage for LCD driving
19	LEDA	+5V	Power supply for LED backlight
20	LEDK	0V	Power supply for LED backlight

Remark:

1. LCD option: TN,STN, FSTN .
2. Customized module.