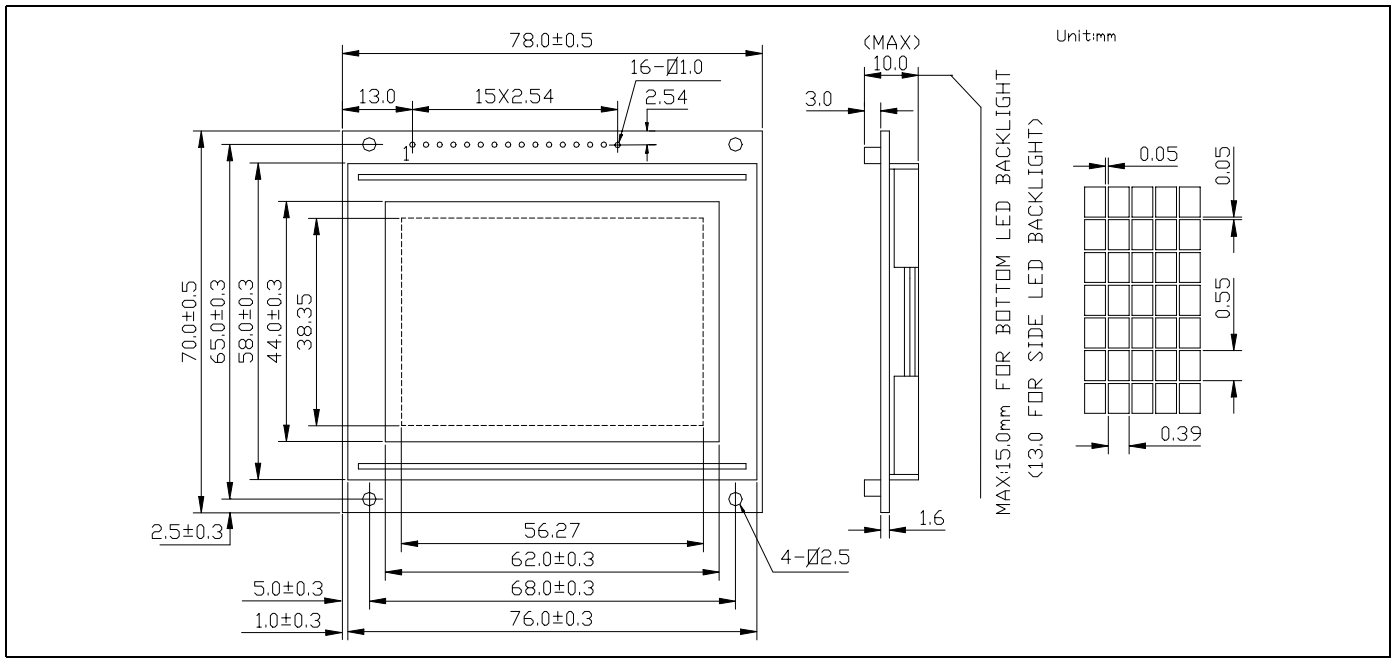
JM12864A

128DOTS×64DOTS
1/ 64 DUTY,1/9 BIAS

1 EXTERNAL DIMENSION



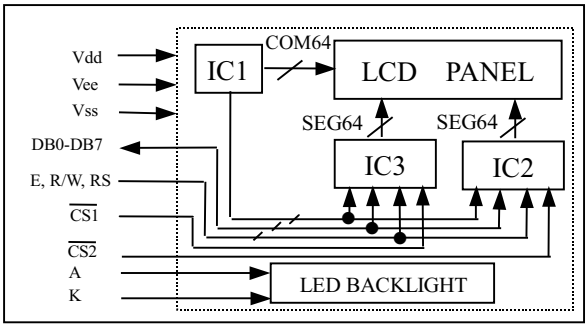
2 MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	78.0×70.0×10.0(LED:15.0)	mm
Viewing Area (W×H)	62.0×44.0	mm
Number of Dots(W×H)	128×64	dots
Dot Pitch (W×H)	0.44×0.60	mm
Dot Size(W×H)	0.39×0.55	mm

3 PIN CONNECTIONS

PIN	SYMBOL	SIGNAL DESCRIPTION
1	$\overline{CS1}$	Chip Select Signal For IC3 When L
2	$\overline{CS2}$	Chip Select Signal For IC2 When L
3	Vss	GND
4	Vdd	Power Supply: +5V
5	Vee	Power Supply For LCD
6	RS	Register Select(H=DATA, L=Instruction)
7	R/W	Read/Write
		L=MPU to LCM, H=LCM to MPU
8	E	Enable
9 to 16	DB0 to DB7	Data Bus for 8bits Mode

4 BLOCK DIAGRAM



5 ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage	Vdd	-0.3	7	V
LCD Supply Voltage	Vee	Vdd-19.0	Vdd+0.3	V
Input Voltage	Vr	-0.3	Vdd+0.3	V
Operating Temperature	Top	0	50	℃
Storage Temperature	Tstg	-20	70	℃

6 ELECTRICAL CHARACTERISTICS(Ta=25℃)

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage(logic)	Vdd-Vss	-	4.5	5.0	5.5	V
Supply Current(logic)	Idd	Vdd=5.0	-	4.0	-	mA
Driving Current(LCD)	Iee	Vee=-7.8	-	2.8	-	mA
Driving Voltage(LCD)	Vdd-Vee	25°C	-	12.8	-	V
Input Voltage "H"	V_{IH}	H	0.7Vdd	-	Vdd	V
Input Voltage "L"	V_{IL}	L	0	-	0.8	V
Output Voltage "H"	V_{OH}	H	Vdd-0.4	-	-	V
Output Voltage "L"	V_{OL}	L	-	-	0.4	V

7 BACKLIGHT CHARACTERS(Ta=25℃)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V_{LED}	-	-	4.1	-	V
LED Forward Consumption Current	$If_{(Side)}$	Ta=25℃ Vf=4.1V	-	83	-	mA
	$If_{(Bottom)}$			192		
LED Allowable Dissipation	$Pd_{(Side)}$	-	-	350	-	mW
	$Pd_{(Bottom)}$			790		