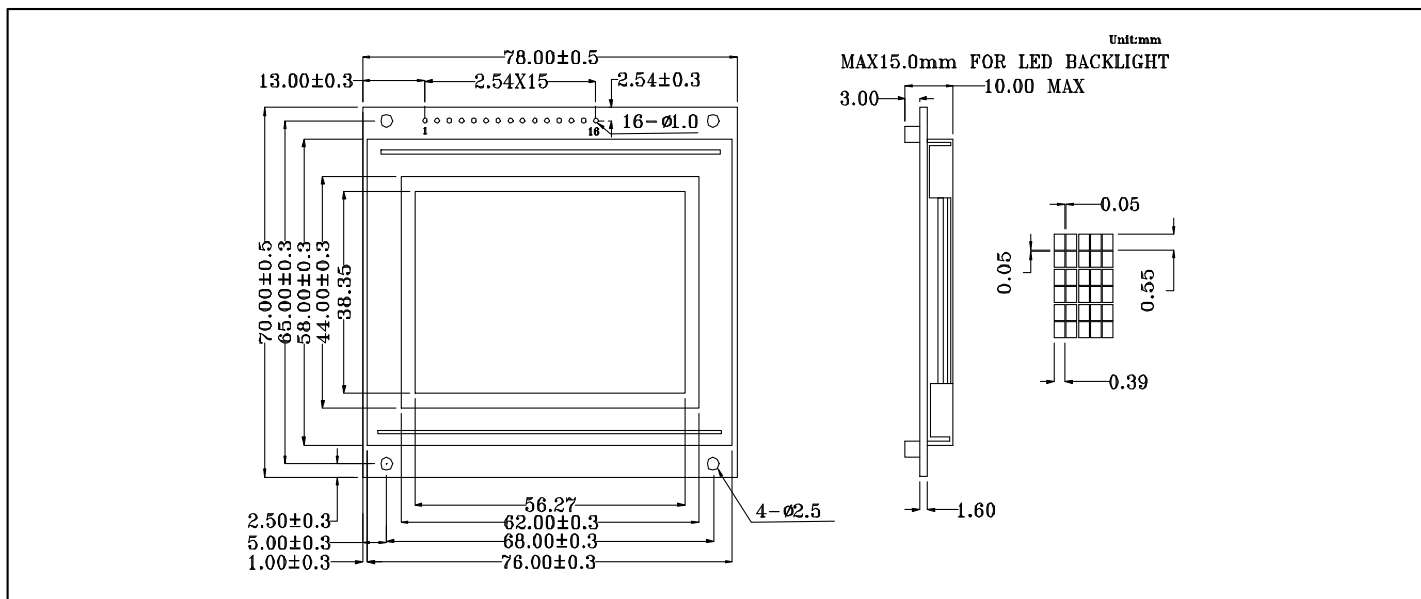


JM12864A

128DOT X 64DOT 1/64DUTY,1/9BIAS

1 EXTERNAL DIMENSION



2 MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (WxHxT)	78.0x70.0x10.0 (LED:15.0)	mm
Viewing Area (WxH)	62.0x44.0	mm
Number of Dots (WxH)	128x64	dots
Dot Pitch (WxH)	0.44x0.60	mm
Dot Size (WxH)	0.39x0.55	mm

5 ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage	Vdd	-0.3	7.0	V
LCD Supply Voltage	Vee	Vdd-19.0	Vdd+0.3	V
Input Voltage	Vr	-0.3	Vdd+0.3	V
Operating Temperature	Topr	0	50	°C
Storage Temperature	Tstg	-10	60	°C

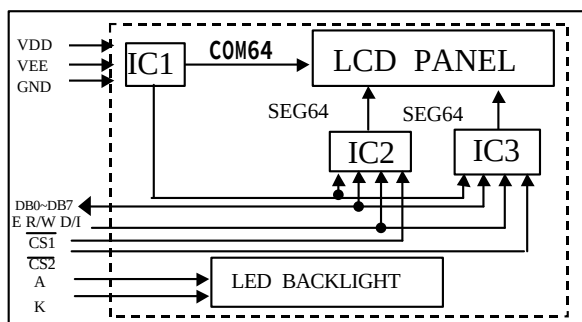
3 PIN CONNECTIONS

PIN	SYMBOL	SIGNAL DESCRIPTION
1	CS1	Chip Select Signal For IC1 When L
2	CS2	Chip Select Signal For IC2 When L
3	GND	GND
4	Vdd	Power Supply
5	vee	Power Supply For LCD
6	D/I	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

6 ELECTRICAL CHARACTERISTICS (Ta=25°C)

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage (logic)	Vdd-GND	-	4.5	5.0	5.5	V
Supply Current(logic)	Idd	Vdd=5.0	-	4.0	-	mA
Driving Current(LCD)	Iee	Vee=12.8	-	2.8	-	mA
Driving Voltage(LCD)	Vdd-Vee	25°C	-	12.8	-	V
Input Voltage "H" level	VIH	H	0.7Vdd	-	Vdd	V
Input Voltage "L" level	VIL	L	GND	-	0.3Vdd	V

4 BLOCK DIAGRAM



7 BACKLIGHTING CHARACTERS (Ta=25°C)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	VLED	-	-	4.1	-	V
LED Forward Consumption Current	If	Ta=25°C Vf=4.1V	-	83	-	mA
LED Allowable Dissipation	Pd	-	-	350	-	mW