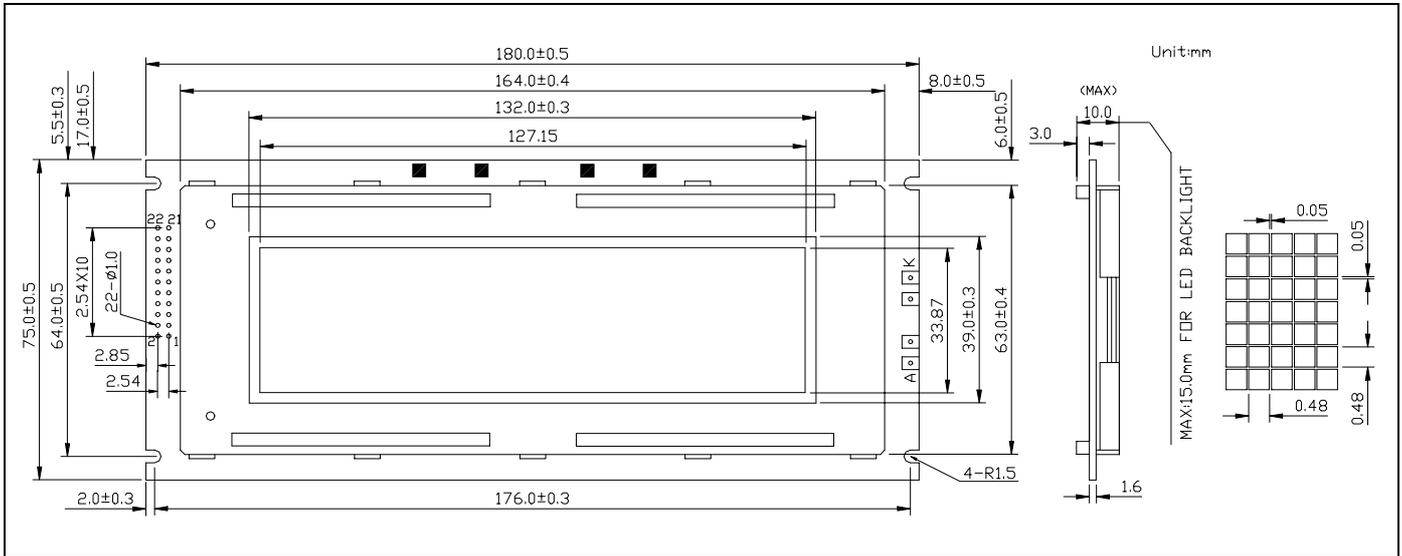




# JM24064A

240DOTS×64DOTS  
1/64 DUTY,1/9 BIAS

## 1 EXTERNAL DIMENSION



## 2 MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	180.0×75.0×10.0(LED:15.0)	mm
Viewing Area (W×H)	132.0×39.0	mm
Number of Dots(W×H)	240×64	dots
Dot Pitch (W×H)	0.53×0.53	mm
Dot Size(W×H)	0.48×0.48	mm

## 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	°C
Storage Temperature	Tstg	-20	70	°C

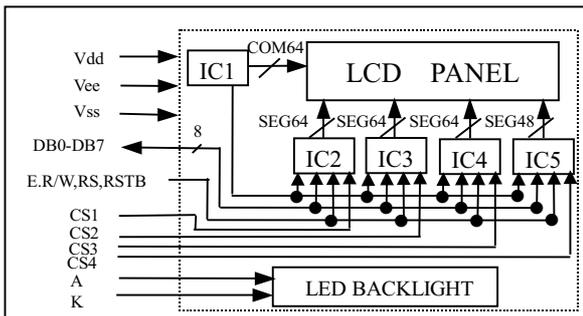
## 3 PIN CONNECTIONS

PIN	SYMBOL	SIGNAL DESCRIPTION
1	Vss	GND
2	Vdd	Power Supply
3	Vee	Power Supply for LCD
4	RS	Register Select(H=DATA, L=Instruction)
5	R/W	Read/Write L=MPU to LCM, H=LCM to MPU
6	E	Enable
7	RSTB	Reset Signal when "L"
8 to 15	DB0 to DB7	Data Bus for 8bit Mode
16 to 19	CS1 to CS4	Chip select signal for IC2 to IC5
20	NC	No connection
21	A	Anode of LED Unit
22	K	Cathode of LED Unit

## 6 ELECTRICAL CHARACTERISTICS(Ta=25°C)

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	-	8.0	-	mA
Driving Current(LCD)	Iee	Vee=-7.8	-	2.0	-	mA
Driving Voltage(LCD)	Vdd-Vee	25°C	-	12.8	-	V
Input Voltage "H"	VIH	H	0.7Vdd	-	Vdd	V
Input Voltage "L"	VIL	L	0	-	0.8	V
Output Voltage "H"	VOH	H	Vdd-0.4	-	-	V
Output Voltage "L"	VOL	L	-	-	0.4	V

## 4 BLOCK DIAGRAM



## 7 BACKLIGHT CHARACTERS(Ta=25°C)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	VLED	-	-	4.1	-	V
LED Forward Consumption Current	If(Side)	Ta=25°C Vf=4.1V	-	225	-	mA
	If(Bottom)		-	520	-	mA
LED Allowable Dissipation	Pd(Side)	-	-	920	-	mW
	Pd(Bottom)		-	2500	-	mW