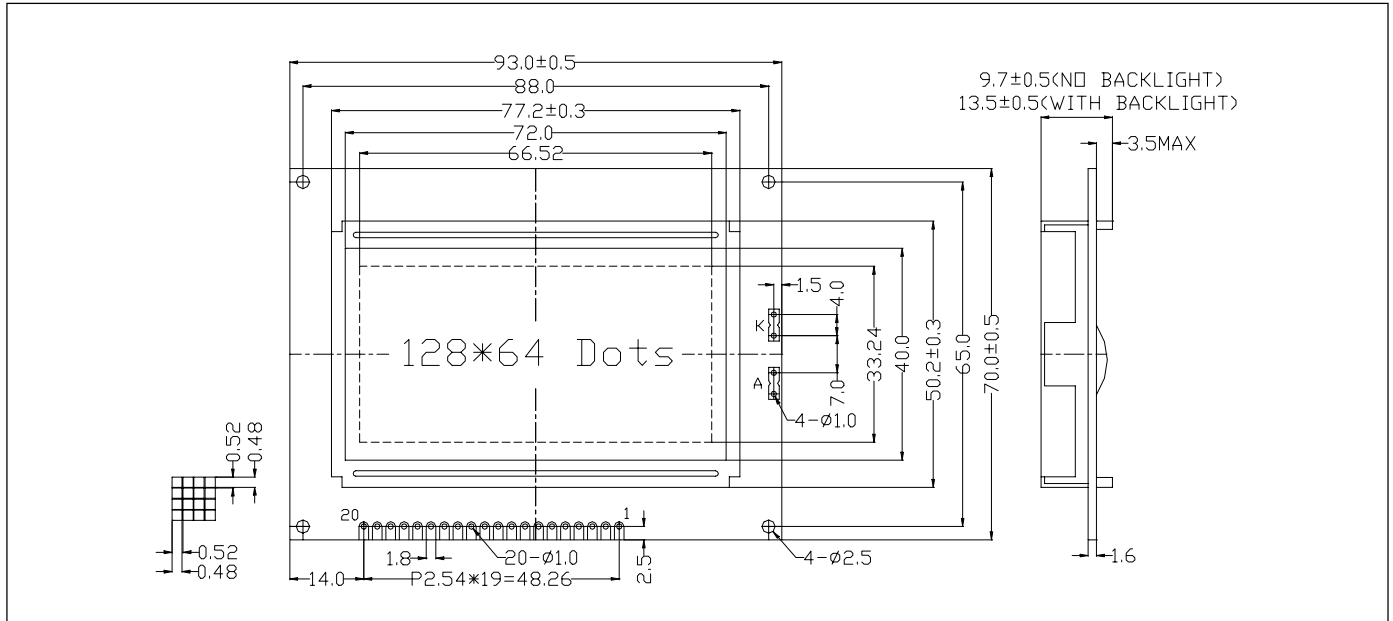




# JM12864C

128DOTS×64DOTS  
1/64 DUTY,1/9 BIAS

## 1 EXTERNAL DIMENSION



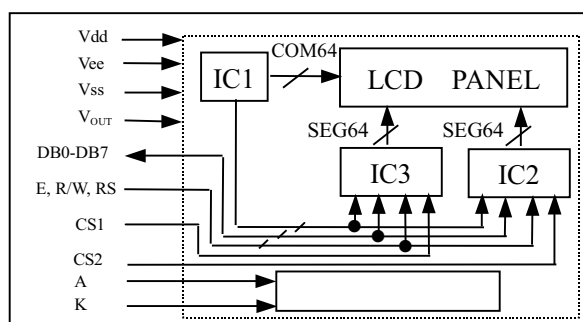
## 2 MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	93.0×70.0×9.7(LED:13.5)	mm
Viewing Area (W×H)	72.0×40.0	mm
Number of Dots(W×H)	128×64	dots
Dot Pitch (W×H)	0.52×0.52	mm
Dot Size(W×H)	0.48×0.48	mm

## 3 PIN CONNECTIONS

PIN	SYMBOL	SIGNAL DESCRIPTION
1	Vss	GND
2	Vdd	Power Supply: +5V
3	Vee	Power Supply For LCD driver
4	RS	Register Select(H=DATA, L=Instruction)
5	R/W	Read/Write
6	E	Enable signal
7 to 14	DB0 to DB7	Data Bus for 8bits Mode
15	CS1	Chip select signal for IC3 when H
16	CS2	Chip select signal for IC2 when H
17	RST	Chip Reset signal
18	Vout	Negative voltage
19	A	Power supply for B/L
20	K	Power supply for B/L

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

## 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	-	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 <sub>IH</sub>	H	0.7Vdd	-	Vdd	V
Input Voltage "L"	V <sub>IL</sub>	L	0	-	0.8	V
Output Voltage "H"	V <sub>OH</sub>	H	Vdd-0.4	-	-	V
Output Voltage "L"	V <sub>OL</sub>	L	-	-	0.4	V

## 7 BOTTOM BACKLIGHT CHARACTERS(Ta=25°C)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V <sub>LED</sub>	-	-	4.05	-	V
LED Forward Consumption Current	I <sub>f</sub>	Ta=25°C V <sub>f</sub> =4.05	-	312	780	mA
LED Allowable Dissipation	P <sub>d</sub>	-	-	1300	3900	mW