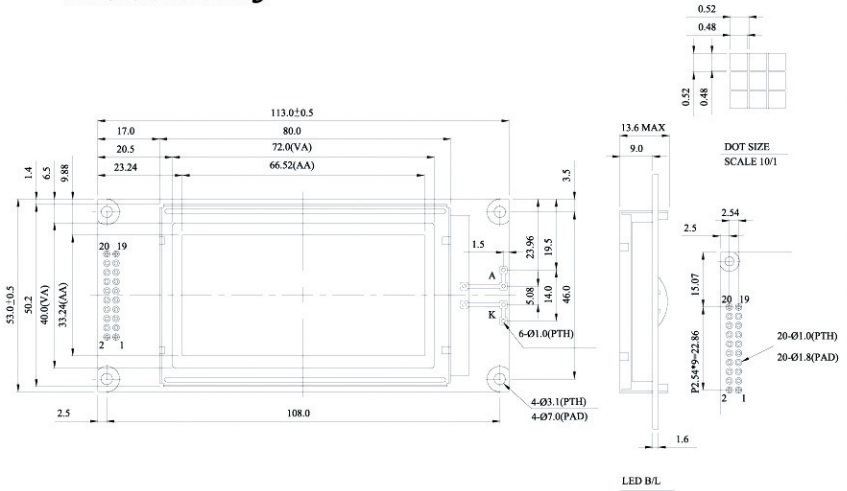


**WG12864K** Graphic 128x64dots

**Dimension drawing**



Graphic type

**Feature**

1. Built-in controller Samsung-(KS0107 · KS0108 or Equivalent)
2. +5V power supply
3. 1/64 duty cycle
4. N.V. Built-in

**Mechanical Data**

Item	Standard Value	Unit
Module Dimension	93.0x70.0	mm
Viewing Area	72.0x40.0	mm
Mounting hole	88.0x65.0	mm
Dot Pitch	0.52x0.52	mm

Pin NO.	Symbol	Function
1	VSS	GND
2	VDD	Power supply for logic
3	Vo	Operating voltage LCD driving
4	D/I	Date/Instruction
5	R/W	H/L Read / write signal
6	E	H→L Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	CS1	H→Chip1 Enable
16	CS2	H→Chip2 Enable
17	RES	Reset
18	VOUT	Negative voltage output
19	A	Power supply for B/L
20	K	Power supply for B/L

**Absolute Maximum Rating**

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	-0.3	---	VDD	V

Note : VSS=0 Volt, VDD=5.0 Volt.

**Electronical Characteristics**

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	L level	0.7V <sub>DD</sub>	---	V <sub>DD</sub>	V
	V <sub>IO</sub>	H level	0	---	0.3V <sub>DD</sub>	V
Supply Current	IDD	VDD=5V	---	2.5	7.5	m
		Recommended LC Driving Voltage for Normal Temp. Version module	-20°C	9.9	10.4	10.9
0°C	9.7		10.2	10.7	V	
25°C	8.9		9.4	9.9	V	
LED Forward Voltage	VF	25°C	---	4.2	4.6	V
		Array Edge	---	330	660	mA
LED Forward Current	IF	25°C	---	120	240	mA
EL Power Supply Current	IEL	V <sub>EL</sub> =110VAC,400Hz	---	---	5.0	m