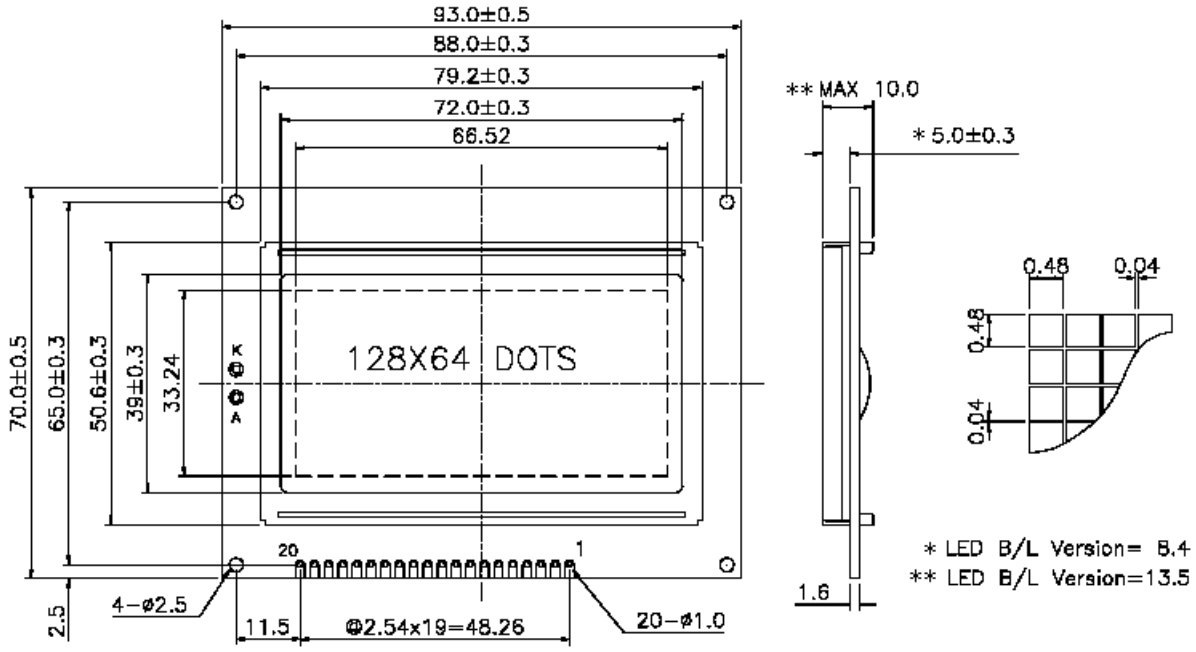
TG12864B

128X64 Dots
1/64 Duty, 1/9Bias

OPPOD

External Dimension

http://www.oppod.com



Mechanical Data

Item	Standard Value	Unit
Module size (W*H*T)	93.0*70.0*10.0/13.5	mm
View area (W*H)	72.0*39.0	mm
Active area (W*H)	66.52*33.24	mm
Dot size (W*H)	0.48*0.48	mm

Maximum Absolute Ratings

Item	Symbol	Value	Unit
Supply logic Volt.	V_{DD} -VSS	-0.3 ~ +7.0	V
LCD driving Volt.	V_{DD}-V0	-0.3 –19.0	V
Input Volt.	V_{in}	-0.3~ V_{DD} +0.3	V
Operating temp.	T_{OPR}	-20 ~ +70	℃
Storage temp.	T_{STG}	-30 ~ +80	℃

Electrical Characteristics (V_{DD} = 4.5V~5.5V)

Item	Symbol	Condition	Value	Unit
Supply logic Volt.	V_{DD}	—	5.0±0.5	V
Operating current	I_{DD}	V_{DD}=5.0V	6.0~8.0	mA
Input high volt.	V_{IH}	---	2.0~ V_{DD}	V
Input low volt.	V_{IL}	—	-0.3~0.8	V
Output high volt.	V_{oH}	I_{oH}=-0.2mA	2.4~ V_{DD}	V
Output low volt.	V_{oL}	I_{oL}=1.6mA	0~0.4	V
LCD driving volt.	V_{LCD}	T_A =25℃	8.0(Type)	V

LED Backlight Characteristics (T_A =25℃)

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Volt.	Vf	---	---	4.1	4.3	V
Led Current	If	T_A =25℃	---	300	---	mA
Power Dissipation	Pd	---	----	1250	---	mW

Interface Description

PIN	Symbol	Level	Description
1	V_{SS}	0V	Ground
2	V_{DD}	5.0V	Power supply for logic
3	V_O	Variable	Driving voltage for LCD
4	RS	H/L	H:Data L :Instruction
5	RW	H/L	H:Read L:Write
6	E	H/L	Enable
7-14	DB0 ----- DB7	H/L	Data bus
15	CS1	H	Selection for IC1,active High
16	CS2	H	Selection for IC2,active High
17	/RST	L	Reset signal, active low
18	VEE	-5V	Negative voltage
19	A	+5V	Anode of LED Backlight
20	K	0V	Cathode of LED Backlight

Block Diagram