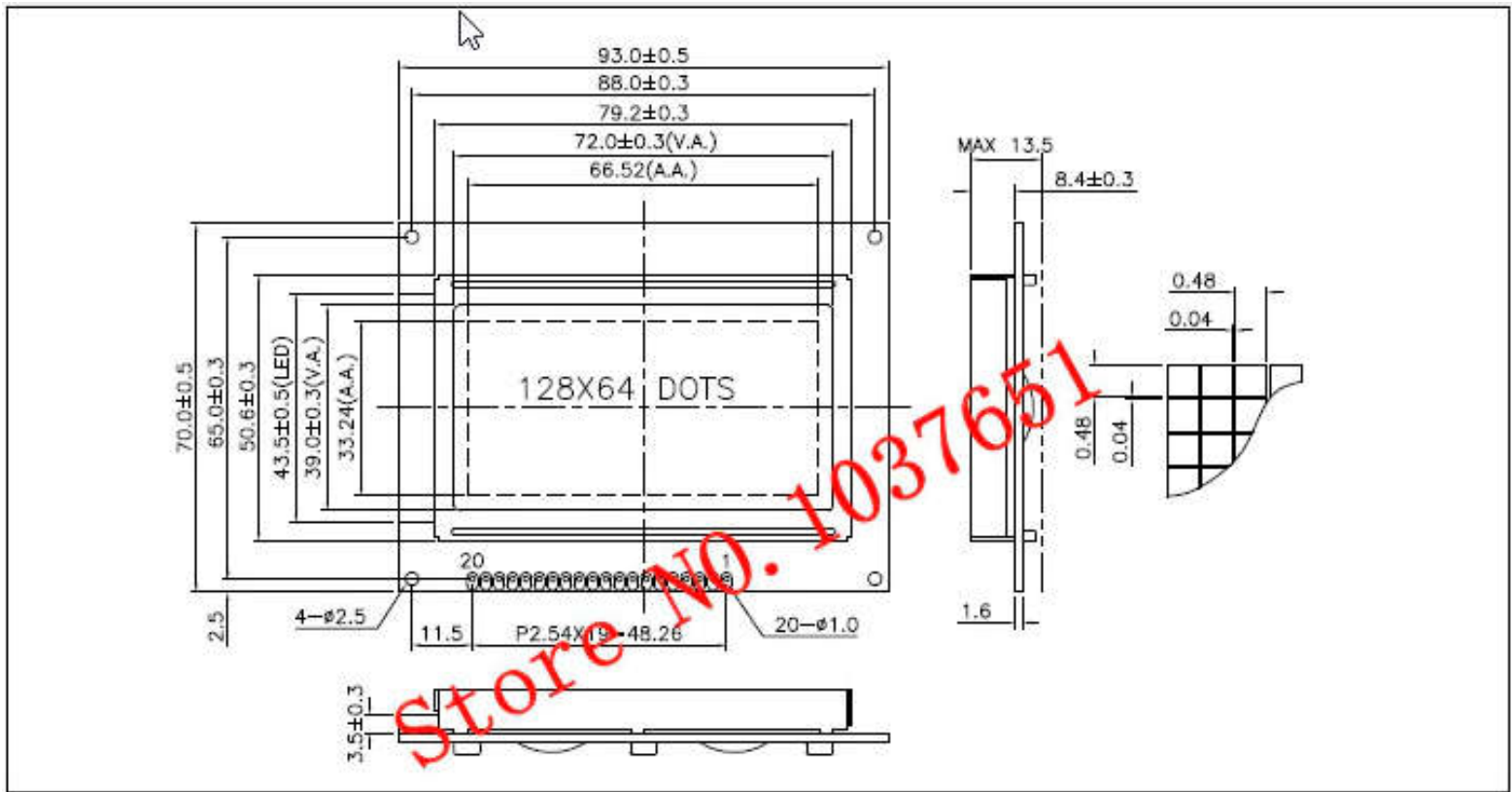


# LCM12864C-1 LCD MODULE

128X64 DOTS LCD12864 LCD DISPLAY Blue/Green

128\*64 lcd display module STN blue/green screen white backlight 5v s6b0107





#### ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V <sub>DD</sub> - V <sub>SS</sub>	-0.3	7.0	V
Supply Voltage(LCD)	V <sub>DD</sub> - V <sub>O</sub>	-0.3	19.0	V
Input Voltage	V <sub>I</sub>	-0.3	V <sub>DD</sub> + 0.3	V
Operating Temp.	T <sub>opr</sub>	-20	70	°C
Storage Temp.	T <sub>stg</sub>	-30	80	°C

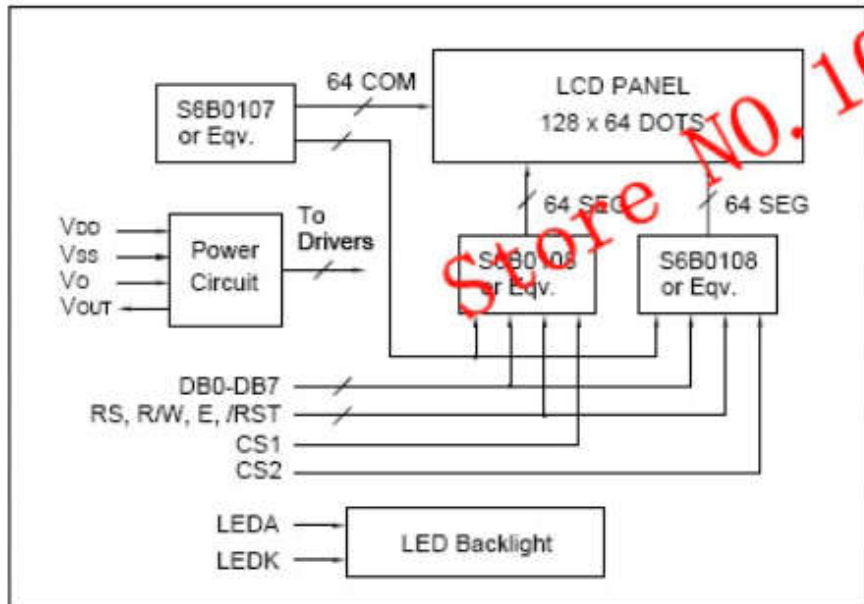
#### MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size ( W x H x T )	93.0 x 70.0 x 13.5	mm
Viewing Area ( W x H )	72.0 x 39.0	mm
Dot Pitch ( W x H )	0.52 x 0.52	mm
Dot Size ( W x H )	0.48 x 0.48	mm
Weight	Approx. 75	g

## ELECTRICAL CHARACTERISTICS ( $V_{DD}=5V \pm 0.25V$ )

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	$V_{IH}$	--	2.0	--	$V_{DD}$	V
Input Low Voltage	$V_{IL}$	--	- 0.3	--	0.8	V
Output High Voltage	$V_{OH}$	$I_{OH} = - 0.2mA$	2.4	--	$V_{DD}$	V
Output Low Voltage	$V_{OL}$	$I_{OL} = 1.6mA$	0	--	0.4	V
Supply Current	$I_{DD}$	$V_{DD} = 5.0V$	--	6.0	8.0	mA
LCD Driving Voltage	$V_{DD} - V_o$	$T_a = 25^\circ C$	--	11.7	--	V

## BLOCK DIAGRAM



## PIN CONNECTIONS

Pin	Symbol	Level	Function
1	$V_{SS}$	0V	GND
2	$V_{DD}$	+5V	Power supply for logic
3	$V_o$	--	Operating voltage for LCD
4	RS	H/L	H : Data L : Instruction code
5	R/W	H/L	H : Read L : Write
6	E	H,H>L	Enable signal
7	DB0	H/L	Data bus
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	CS1	H	Chip selection for IC1. Active "H".
16	CS2	H	Chip selection for IC2. Active "H".
17	/RST	L	Reset signal. Active "L".
18	$V_{OUT}$	-10V	Output voltage for LCD driving
19	LEDA	+5V	Power supply for LED backlight
20	LEDK	0V	

## LED BACKLIGHT SPECIFICATIONS ( $T_a=25^\circ C$ )

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	$V_f$	3.1	3.3	V
Forward Current	$I_f$	45	--	mA
LED Color		White		