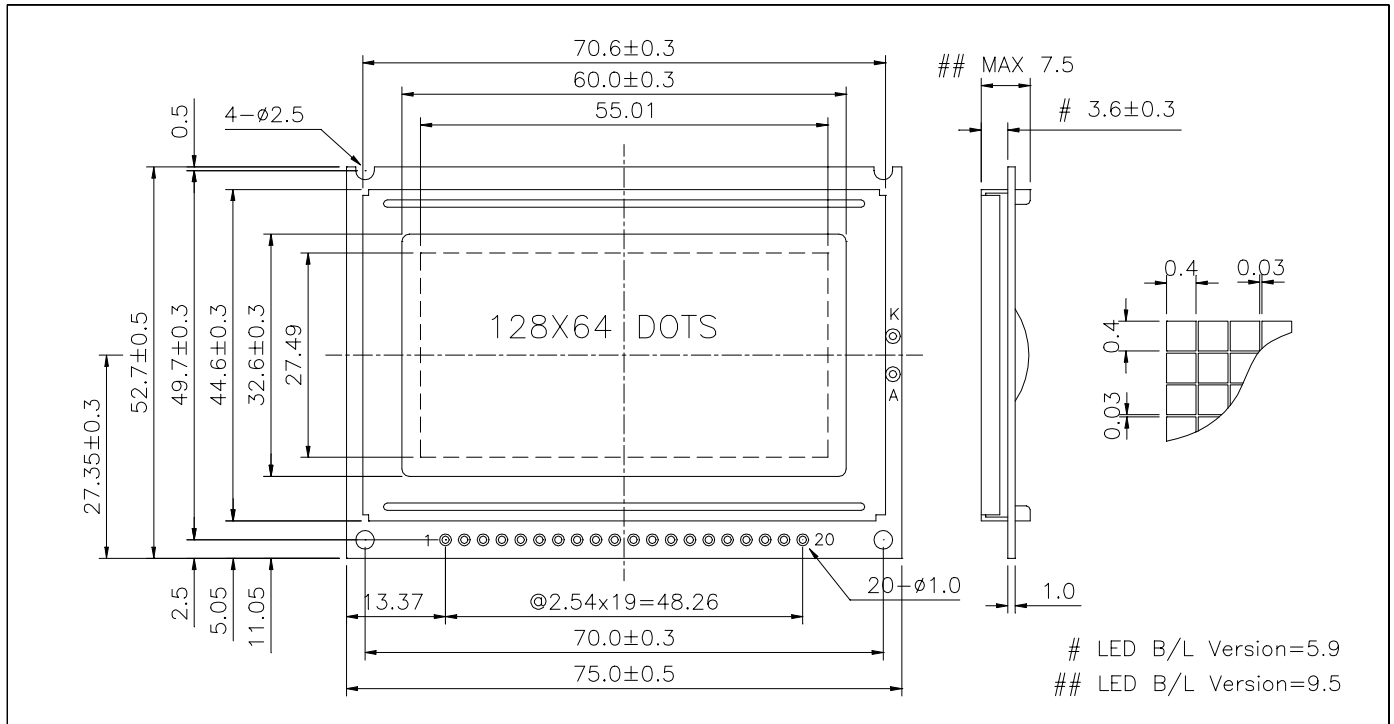


# LG128642 128 x 64 dots



## 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 )	75.0 x 52.7 x 7.5/9.5	mm
Viewing Area ( W x H )	60.0 x 32.6	mm
Dot Pitch ( W x H )	0.43 x 0.43	mm
Dot Size ( W x H )	0.40 x 0.40	mm
Weight (Reflective/LED)	Approx. 30 / 40	g

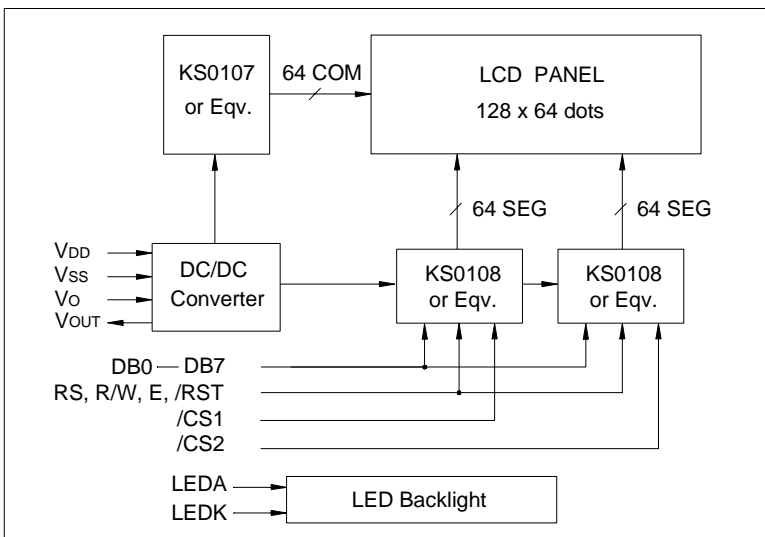
## ELECTRICAL CHARACTERISTICS ( V<sub>DD</sub>=5V±0.25V )

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V <sub>IH</sub>	--	2.0	--	V <sub>DD</sub>	V
Input Low Voltage	V <sub>IL</sub>	--	- 0.3	--	0.8	V
Output High Voltage	V <sub>OH</sub>	I <sub>OH</sub> = - 0.2mA	2.4	--	V <sub>DD</sub>	V
Output Low Voltage	V <sub>OL</sub>	I <sub>OL</sub> = 1.6mA	0	--	0.4	V
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> = 5.0V	--	6.0	8.0	mA
LCD Driving Voltage	V <sub>DD</sub> - V <sub>O</sub>	T <sub>a</sub> =25°C	--	11.2	--	V

## PIN CONNECTIONS

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

## BLOCK DIAGRAM



## LED BACKLIGHT SPECIFICATIONS (T<sub>a</sub>=25°C)

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	V <sub>f</sub>	4.1	4.3	V
Forward Current	I <sub>f</sub>	120	--	mA
Emission Wave Length	λ <sub>p</sub>	568	--	nm