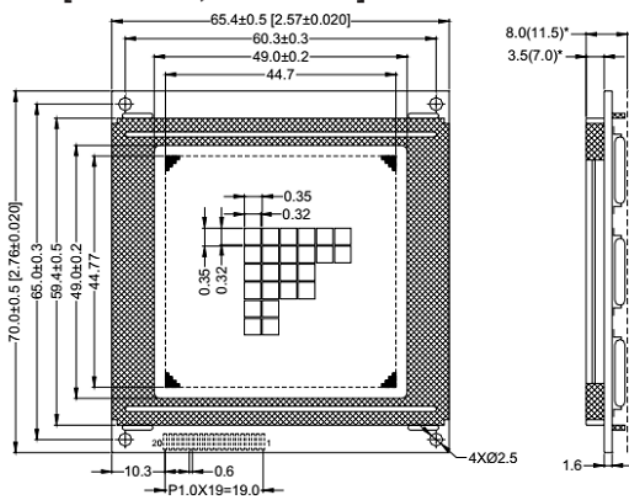


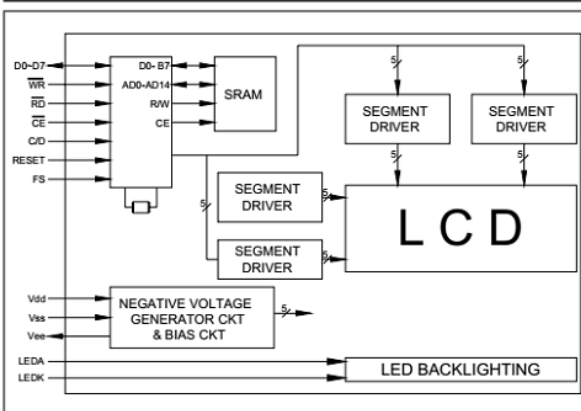
### LG121281 [128 x 128, 1/128 MUX]

DIMENSION IN MM



[ \* ] DIMENSIONS FOR LED BACKLIGHT VERSION

#### BLOCK DIAGRAM



#### PIN DETAILS

PIN No.	DESCRIPTION
1	Vss
2	Vdd
3	V0
4	/C/D
5	/RD
6	/WR
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	/CE
16	/RST
17	Vee (Vout)
18	FS1
19	LEDA
20	LEDK

#### TABULATED DATA

MODEL	DISPLAY FORMAT DOT x DOT	DRIVING DUTY	DOT SIZE W x H	DOT PITCH W x H	VIEWING AREA W x H	PCB SIZE W x H
LG121281	128 x 128	1/128	0.32 x 0.32	0.35 x 0.35	49.0 x 49.0	65.4 x 70.0

LAMPEX reserves all rights. Specification might alter without prior notice.

CAUTION: STATIC SENSITIVE DEVICES

#### ABSOLUTE MAXIMUM RATING

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUES			UNITS
			MIN.	TYP.	MAX.	
Power Supply for Logic	$V_{dd}-V_{ss}$	$T_a = 25^\circ\text{C}$	0	-	6.7	V
Input Voltage	V	$T_a = 25^\circ\text{C}$	0	-	Vdd	V
Operating Voltage for LCD	$V_{dd}-V_{ee}$	$T_a = 25^\circ\text{C}$	0	-	- 12	V
Operating Temperature	$T_{op}$	-	-15	-	+ 65	$^\circ\text{C}$
Storage Temperature	$T_{st}$	-	-20	-	+ 70	$^\circ\text{C}$

#### ELECTRICAL DATA ( $T_a = 25^\circ\text{C}$ , $V_{dd} = +5V \pm 0.25V$ )

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUES			UNITS
			MIN.	TYP.	MAX.	
Input High Voltage	$V_{IH}$	-	2.4	-	Vdd	V
Input Low Voltage	$V_{IL}$	-	$V_{ss}$	-	0.7	V
Output High Voltage	$V_{OH}$	$I_{OH} = 0.6\text{mA}$	$V_{dd}-0.4$	-	Vdd	V
Output Low Voltage	$V_{OL}$	$I_{OL} = 1.6\text{mA}$	-	-	0.4	V
Supply Current	$I_{dd}$	$V_{dd} = 5.0V$	-	14.0	20.0	mA
Operating Voltage for LCD	$V_{dd}-V_{out}$	$T_a = 0^\circ\text{C}$	-5.2	-6.2	-12.0	V
		$T_a = 25^\circ\text{C}$	-4.8	-5.8	-11.8	V
LED Backlight Current	$I_{LED}$	$V_{dd} = 5.0V$	100	140	180	mA

#### NOTE

##### RAM OPTION:

RAM SIZE      DISPLAY MODE  
32K            : Character & Graphic

##### Other Details:

For details relating to the Initialization, Instruction Set, Timing Diagram, Please refer to the LCD Controller (T6963C) Datasheet.

##### Ordering Details:

Different Grades & Options are available in this LCD Module. Please contact us at the time of ordering for the ordering Codes.