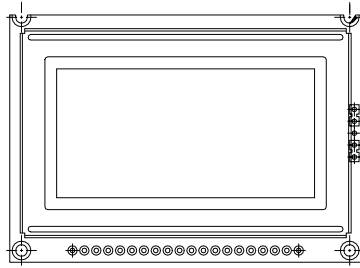


# 128 x 64 Dots Graphic LCD



## FEATURES

- Built-in controller (KS0107 - KS0108 re Equivalent)
- + 5V power supply
- 1/64 duty cycle
- N.V. Built-in

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	75.0 x 52.7	mm
Viewing Area	60.0 x 32.6	mm
Dot Size	0.4 x 0.4	mm
Dot Pitch	0.43 x 0.43	mm

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

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	L level	$0.7V_{DD}$	-	$V_{DD}$	V
	VIO	H level	0	-	$0.3V_{DD}$	V
Supply Current	IDD	VDD = 5V	-	4.0	5.2	mA
Recommended LC Driving Voltage for Normal Temp. Version Module	VDD-V0	0°C	9.7	10.2	10.7	V
		25°C	7.5	8.0	8.5	
		50°C	8.6	9.1	9.6	
LED Forward Voltage	VF	25°C	-	4.0	4.4	V
LED Forward Current	IF	25°C	-	100	200	mA
EL Power Supply Current	IEL	Vel = 110VAC:400Hz	-	-	5.0	mA

PIN NUMBER	SYMBOL	FUNCTION
1	Vdd	Power Supply ( +5V)
2	GND	Power Supply (GND)
3	Vo	Contrast Adjustment
4	DB0	Data Bus Line
5	DB1	Data Bus Line
6	DB2	Data Bus Line
7	DB3	Data Bus Line
8	DB4	Data Bus Line
9	DB5	Data Bus Line
10	DB6	Data Bus Line
11	DB7	Data Bus Line
12	CS1	Chip Select IC1
13	CS2	Chip Select IC2
14	RST	Reset Signal
15	R/W	Data Read/Write
16	D/I	Data/Instruction
17	E	Enable Signal
18	Vee	Negative Voltage Output
19	A	Power Supply for LED (4.2V)
20	K	Power Supply for LED (0V)

**DIMENSIONS** in millimeters

