



**Feature**

1. 5x8 dots includes cursor
2. Built-in controller (KS0066 or Equivalent)
3. +5V power supply (also available for +3V)
4. 1/16 duty cycle
5. LED can be driven by Pin1, 2, 15 & 16 or A and K
6. N.V. optional for +3V power supply

Pin	Symbol	Function
1	Vss	GND
2	Vdd	+3V or +5V
3	Vo	Contrast Adjustment
4	RS	H/L Register select signal
5	R/W	H/L Read / write signal
6	E	H->L Enable signal
7	DB0	H/L Data Bus Line
8	DB1	H/L Data Bus Line
9	DB2	H/L Data Bus Line
10	DB3	H/L Data Bus Line
11	DB4	H/L Data Bus Line
12	DB5	H/L Data Bus Line
13	DB6	H/L Data Bus Line
14	DB7	H/L Data Bus Line
15	A	Power supply for LED 4.2V
16	K	Power supply for B/L (0V)
17	NC / Vee	NC or Negative Voltage output
18	NC	No connection

**Display Character Address Code**

Display position 1 2 3 4 5 ~ 17 18 19 20

DD RAM Address	00	01																	13
DD RAM Address	40	41																	53
DD RAM Address	14	15																	27
DD RAM Address	54	55																	67

**Mechanical Data**

Item	Standard Value	Unit
Module Dimension	146.0 x 62.5	mm
Viewing Area	123.5 x 43.0	mm
Mounting Hole	139.0 x 55.5	mm
Character Size	4.84 x 9.22	mm

**Absolute Maximum Rating**

Item	Symbol	Standard Value			Unit
		min	typ	max	
Power Supply	Vdd - Vss	-0.3	---	7.0	V
Input Voltage	Vi	-0.3	---	Vdd	V

Note: Vss= 0 V, Vdd= 5.0 V

**Electronical Characteristics**

Item	Symbol	Condition	Standard Value			Unit
			min	typ	max	
Input Voltage	Vdd	Vdd=+5V	4.7	5.0	5.3	V
		Vdd=+3V	2.7	3.0	5.3	
Supply Current	Idd	Vdd=5V	---	8.0	10.0	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vdd-Vo	-20°C	5.0	5.1	5.7	V
		0°C	4.6	4.8	5.2	
		25°C	4.1	4.5	4.7	
		50°C	3.9	4.2	4.5	
		70°C	3.7	3.9	4.3	
Y/G LED Forward Voltage	Vf	25°C	---	4.2	---	V
Y/G LED Forward Current	If	25°C	---	540	---	mA
White LED Forward Voltage	Vf	25°C	---	3.5	---	V
White LED Forward Current	If	25°C	---	80	---	mA

© 2007 GMS Display Systems. Errors and omissions excepted.