

#### EN: This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at <u>www.hestore.hu</u>.

# Raystar Optronics,Inc.

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	116.0x37.0	mm
Viewing Area	85.0x18.6	mm
Mounting hole	108.0x 29.0	mm
Character Size	3.2x5.55	mm

#### Absolute Maximum Rating

ltem	Symbol	Stan	Unit						
ntem	Symbol	min.	typ.	max.	Unit				
Power Supply	VDD-VSS	-0.3		7.0	V				
Input Voltage	VI	-0.3		VDD	V				
Note : VSS=0 Volt, VDD=5.0 Volt									

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#### **Electronical Characteristics**

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Item	Symbol	Condition	min. typ. max			Unit	
	VDD	VDD=+5V	4.7	5.0	5.3	v	
Input Voltage	VDD	VDD=+3V	2.7	3.0	5.3	v	
Supply Current	IDD	VDD=5V		1.0	1.2	mA	
	VDD-V0	-20°C	5.0	5.1	5.7		
Recommended LC Driving		0°C	4.6	4.8	5.2		
Voltage for Normal Temp.		25°C	4.1	4.5	4.7	V	
Version module		50°C	3.9	4.2	4.5		
		70°C	3.7	3.9	4.3		
LED Forward Voltage	VF	25°C		4.2	4.6	v	
LED Forward Current	İF	25°C		210	420	mA	
EL Power Supply Current	IEL	Vel=110VAC;400Hz			5.0	mA	

### Display Character Address Code:

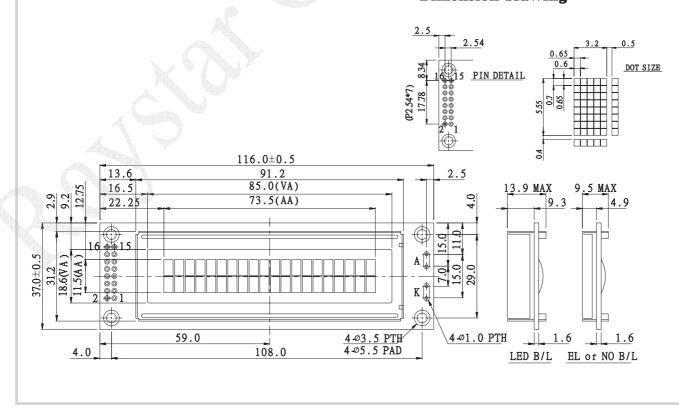
Display p	osition	4	2	2	4	5	6	7	0	0	10	11	12	12			20
DD RAM	Address	00	01	5	4			ŕ	0	9	10					6	13
DD RAM	Address	40	41												1		53

#### Feature

- 1. 5x8 dots includes cursor
- 2. Built-in controller (KS 0066 or E Quivalent)
- 3. +5V power supply (Also available for +3V)
- 4.1/16 duty cycle
- 5. LED can be driven by pin1,pin2,pin15,pin16 or A and K
- 6. N.V. optional for +3V power supply

Pin NO.	Symbol	Function	
1	Vss	GND	And the
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	Е	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/Vee	+4.2V for LED /Negative Voltage output	Ch
16	К	Power supply for B/L (0V)	

## RC2002A Character 20x2 Dimension drawing



Characte type