

### Mechanical Data

| Item             | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 85.2x55        | mm   |
| Viewing Area     | 74.0x22.0      | mm   |
| Dot Size         | 0.4x0.56       | mm   |
| Mounting hole    | 0.44x0.61      | 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              | ---  | VDD  | V    |

Note: VSS=0 Volt , VDD=5.0 Volt .

### Electronical Characteristics

| Item   | Symbol | Condition        | Standard Value |      |      | Unit |
|--|--------|------------------|----------------|------|------|------|
|  |        |                  | min.           | typ. | max. |      |
| Input Voltage  | VDD    | ---              | 4.5            | 5.0  | 5.5  | V    |
| Supply Current   | IDD    | VDD=5V           | ---            | 1.0  | 1.4  | mA   |
| Recommended LC Driving Voltage for Normal Temp. Version module | VDD-VO | -20°C            | ---            | ---  | 6.2  | V    |
|  |        | 25°C             | ---            | ---  | ---  |      |
|  |        | 70°C             | 4.8            | 5.5  | ---  |      |
| LED Forward Voltage  | VF     | 25°C             | ---            | 4.2  | 4.6  | V    |
| LED Forward Current  | IF     | 25°C             | ---            | 180  | 360  | mA   |
| EL Power Supply Current  | IEF    | Vel=110VAC,400Hz | ---            | ---  | 5.0  | mA   |

### Feature

1. Built-in controller (ST7920)
2. 1/32 duty cycle
3. +5.0V power supply
4. Chinese Version:RG16032E
5. Same size with RG16032A

| Pin NO. | Symbol | Function                            |
|---------|--------|-------------------------------------|
| 1       | Vss    | Ground                              |
| 2       | Vdd    | NC                                  |
| 3       | Vo     | Operating voltage for LCD           |
| 4       | RS     | Register select signal              |
| 5       | NC     | NC                                  |
| 6       | NC     | NC                                  |
| 7       | VOUT   | Positive Voltage Output             |
| 8       | E      | Enable signal                       |
| 9       | R/W    | H: read data L:write data           |
| 10      | DB0    | Data bus line                       |
| 11      | DB1    | Data bus line                       |
| 12      | DB2    | Data bus line                       |
| 13      | DB3    | Data bus line                       |
| 14      | DB4    | Data bus line                       |
| 15      | DB5    | Data bus line                       |
| 16      | DB6    | Data bus line                       |
| 17      | DB7    | Data bus line                       |
| 18      | RESET  | H : MPU 68 type                     |
| 19      | A      | Power Supply for LED backlight( + ) |
| 20      | K      | Power Supply for LED backlight( - ) |

Graphic type

## RG16032B Graphic 160x32 dots

### Dimension drawing

