



PIN CONNECTIONS

| Pin | Symbol | Level | Function |
|--------------|-----------------|-------|------------------------------------|
| 1 | V _{SS} | 0V | Ground |
| 2 | V _{DD} | 3.3V | Power supply for Logic |
| 3 | V _O | - | Driving voltage for LCD |
| 4 | A0 | H/L | "L" Data, "H" Instruction code |
| 5 | /WR | L | 8080 : Write signal |
| 6 | /RD | L | 8080 : Read signal |
| 7 14 | DB0 DB7 | H/L | Data bus line |
| 15 | /CS | L | Chip select ,Active L |
| 16 | /RST | L | Reset signal ,active "L" |
| 17 | V _{EE} | - | Positive Voltage output |
| 18 | SEL1 | H/L | H: 68 interface L: 80 interface |
| 19 | A | - | Power supply for LED |
| 20 | K | - | backlight |

NOTES:

1. Built-in SED1335/RA8835 controller
2. 5/3.3V power supply optional
3. Touch panel optional
4. Blue mode/FSTN optional

MECHANICAL DATA

| Item | Nominal Dimensions | Unit |
|---------------------------|--------------------|------|
| Module Size (W x H x T) | 94.7X83.3X8.1 | mm |
| Viewing Area (W x H) | 81.4X61.0 | mm |
| Dot Pitch (W x H) | 0.24 X0.24 | mm |
| Dot Size (W x H) | 0.225X0.225 | mm |

ABSOLUTE MAXIMUM RATINGS

| Item | Symbol | Min. | Max. | Unit |
|------------------------|----------------------------------|------|-----------------|------|
| Supply Voltage (Logic) | V _{DD} -V _{SS} | 0 | 3.5 | V |
| Supply Voltage (LCD) | V _O -V _{SS} | 0 | 28 | V |
| Input Voltage | V _I | 0 | V _{DD} | V |
| Operating Temp. | T _{OPR} | -20 | +70 | |
| Storage Temp. | T _{STG} | -30 | +80 | |

ELECTRICAL CHARACTERISTICS (V_{DD}=3.3V, Ta=25)

| Item | Symbol | Min. | Typ. | Max. | Unit |
|---------------------|---------------------------------|---------------------|------|---------------------|------|
| Input High Voltage | V _{IH} | 0.5 V _{DD} | - | V _{DD} | V |
| Input Low Voltage | V _{IL} | 0 | - | 0.2 V _{DD} | V |
| Output High Voltage | V _{OH} | 2.4 | - | V _{DD} | V |
| Output Low Voltage | V _{OL} | 0 | - | 0.4 | V |
| Supply Current | I _{DD} | - | 30 | - | mA |
| LCD Driving Voltage | V _O -V _{SS} | - | 18.7 | - | V |

LED BACKLIGHT SPECIFICATIONS (Ta=25)

| Item | Forward Voltage | Forward Current |
|-------|-----------------|-----------------|
| White | 3.5V | 120mA |