



| I/O CONNECTION | | |
|----------------|--------|--------------------------|
| Pin No | Symbol | Function |
| 1 | VSS | Power supply (GND) |
| 2 | VDD | Power supply (+) |
| 3 | V5 | Contrast adjust |
| 4 | RS | Register select signal |
| 5 | R/W | Data read / write |
| 6 | E | Enable signal |
| 7 | DB0 | Data bus line |
| 8 | DB1 | Data bus line |
| 9 | DB2 | Data bus line |
| 10 | DB3 | Data bus line |
| 11 | DB4 | Data bus line |
| 12 | DB5 | Data bus line |
| 13 | DB6 | Data bus line |
| 14 | DB7 | Data bus line |
| 15 | LED+ | Power supply for LED (+) |
| 16 | LED- | Power supply for LED (-) |

NOTE: 1 TOLERANCES UNLESS OTHERWISE SPECIFIED: $\pm 0.25\text{mm}$
 2 ALL DIMENSIONS ARE IN mm
 3 VIEWING ANGLE: 6 O'CLOCK
 4 MULTIPLEX LEVEL: 1/16 DUTY, 1/5 BIAS
 5 LCD: STN YELLOW-GREEN/GRAY & FSTN
 6 DISPLAY MODE: TRANSFLECTIVE / POSITIVE
 7 CONNECTORS: ZEBRA
 8 DATA TRANSFER: 8-BIT PARALLEL DATA TRANSFER
 9 BACKLIGHT: LED
 10 COLOR OF BACKLIGHT: YELLOW-GREEN

| ABSOLUTE MAXIMUM RATING | | | | | |
|---------------------------|---------|-----------|--------|---------|-------|
| ITEM | Symbol | Condition | Min | Max | Units |
| Power supply for logic | Vdd-Vss | 25° C | -0.3 | 7.0 | V |
| Operating voltage for LCD | Vdd-V0 | 25° C | Vdd-12 | Vdd+0.3 | V |
| Input voltage | Vin | 25° C | -0.3 | Vdd+0.3 | V |
| Operating temperature | Top | -- | -20 | 70 | °C |
| Storage temperature | Tstg | -- | -25 | 80 | °C |

| ELECTRO-OPTICAL CHARACTERISTICS | | | | | | |
|---------------------------------|------------------|-----------|-----|-----|-----|-------|
| ITEM | Symbol | Condition | Min | Typ | Max | Units |
| Power supply for logic | Vdd-Vss | 25° C | 3.0 | 5.0 | 3.5 | V |
| LCM current consumption(No B/L) | I _d | Vdd=5V | -- | -- | 3.0 | mA |
| Operating voltage for LCD | Vdd-V5 | -20° C | 3.8 | 4.5 | 4.9 | V |
| | | 25° C | 3.8 | 4.5 | 4.9 | V |
| | | 70° C | 3.8 | 4.5 | 4.9 | V |
| Backlight current consumption | I _{Led} | VB/L=5.0V | -- | 360 | -- | mA |

