



TG322400

320 x 240 dots

FSTN

Reflective

DIMENSIONAL DATA

| Item | Measurement (W) x (H) x (T) | Unit |
|-------------------|-----------------------------------|------|
| Module Dimension | 150 x 106 x 2.7 Max. (Reflective) | mm |
| Viewing Area | 121 x 91.6 | mm |
| Dot Pitch | 0.36 x 0.36 | mm |
| Dot Size | 0.34 x 0.34 | mm |
| Weight | | g |
| Controller/Driver | MSM6778/MSM6779 | |

ABSOLUTE MAXIMUM RATINGS

| Item | Symbol | Condition | Min. | Max. | Unit |
|------------------------|-------------------|----------------------|------|----------------|------|
| Supply Voltage (Logic) | $V_{DD} - V_{SS}$ | - | 0.3 | 6.5 | V |
| Supply Voltage(LCD) | $V_{DD} - V_{EE}$ | 0 | | 30.0 | V |
| Input Voltage | V_I | $-V_a = 25\text{ C}$ | .3 | $V_{DD} + 0.3$ | V |
| Operating Temp. | T_{opr} | | 0 | 50 | C |
| Storage Temp. | T_{stg} | | -20 | 70 | C |

ELECTRICAL CHARACTERISTIC

| Item | Symbol | Condition | Value | | | Unit |
|-------------------------|-------------------|-----------------------------|----------------|------|----------------|------|
| | | | Min. | Typ. | Max. | |
| Supply Voltage (Logic) | $V_{DD} - V_{SS}$ | -- | 4.5 | 5 | 5.5 | V |
| Supply Voltage (LCD) | $V_{DD} - V_O$ | -- | -- | | -- | V |
| Supply Current | I_{DD} | $V_{DD} - V_{SS} = 5V$ | -- | 0.1 | -- | mA |
| | I_{EE} | | -- | 0.4 | -- | mA |
| Input Voltage "H" Level | V_{IH} | High Level | $0.8 * V_{DD}$ | -- | V_{DD} | V |
| Input Voltage "L" Level | V_{IL} | Low Level | V_{SS} | -- | $0.2 * V_{DD}$ | V |
| Frame Frequency | F_f | $T_a = 25\text{ C}$ | -- | 70 | -- | Hz |
| Viewing Angle | 1 - 2 | $T_a = 25\text{ C}$ CR 3 | -- | 33 | -- | Deg. |
| | 1. 2 | | -- | 32 | -- | |

OUTLINE DIMENSION

