<table>
<thead>
<tr>
<th>ITEM</th>
<th>VALUE</th>
<th>MIN</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply for controller</td>
<td>((V_{DD} - V_{SS}))</td>
<td>0</td>
<td>7.0V</td>
</tr>
<tr>
<td>Power supply for LCD driver</td>
<td>((V_{DD} - V_0))</td>
<td>0</td>
<td>13.5V</td>
</tr>
<tr>
<td>Input voltage for data and control signals</td>
<td>(V_{SS}) to (V_{DD})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>((-\text{LV model}))</td>
<td>-5°C</td>
<td>+50°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>((-\text{LV model}))</td>
<td>-20°C</td>
<td>+60°C</td>
</tr>
</tbody>
</table>

**Power Supply for Single Supply Voltage Types**

**Power Supply for Dual Supply Voltage Types**

### SYMBOL | I/O | FUNCTION
--- | --- | ---
\(V_{SS}\) | Ground          |               |
\(V_{DD}\) | +5 Volt Power Supply |               |
\(V_0\)  | Negative voltage supply for LCD driver (For non LV models) |               |
RS      | 1 | Register Select: H for data; L for instruction code |
R/W     | 1 | Read/Write: H-read from module; L-write into module |
E       | Enable (No connection for MDL-40466) |
DB0     | I/O | Data bus lines used only in 8 bit transfer |
DB1     | I/O | Data bus line used for both 4 and 8 bit transfer |
DB2     | I/O | Data bus lines used for both 4 and 8 bit transfer |
DB3     | I/O | Data bus lines used for both 4 and 8 bit transfer |
DB4     | I/O | Also serves as Busy Flag for internal operations |
DB5     | I/O | Data bus lines used for both 4 and 8 bit transfer |
DB6     | I/O | Data bus lines used for both 4 and 8 bit transfer |
DB7     | I/O | Data bus lines used for both 4 and 8 bit transfer |
E1      | I | Enable for upper two rows |
E2      | I | Enable for lower two rows |
A       | 1 | +ve supply input for backlight |
K       | 1 | -ve supply input for backlight |