Logic Symbols


## Connection Diagram



Pin Descriptions

| Pin Names | Description |
| :--- | :--- |
| $\mathrm{D}_{0}-\mathrm{D}_{7}$ | Data Inputs |
| LE | Latch Enable Input |
| $\overline{\mathrm{OE}}$ | Output Enable Input |
| $\mathrm{O}_{0}-\mathrm{O}_{7}$ | 3-STATE Latch Outputs |

## Truth Table

| Inputs |  |  | Outputs |
| :---: | :---: | :---: | :---: |
| LE | $\overline{\mathbf{O E}}$ | $\mathbf{D}_{\mathbf{n}}$ | $\mathbf{O}_{\mathbf{n}}$ |
| X | H | X | Z |
| H | L | L | L |
| H | L | H | H |
| L | L | X | $\mathrm{O}_{0}$ |

L = LOW Voltage Level
$\mathrm{Z}=$ High Impedance
$\mathrm{X}=$ Immaterial
$\mathrm{O}_{0}=$ Previous $\mathrm{O}_{0}$ before HIGH-to-LOW transition of Latch Enable


Absolute Maximum Ratings(Note 1)
Supply Voltage ( $\mathrm{V}_{\mathrm{CC}}$ )
DC Input Diode Current ( $l_{\text {IK }}$ )
$V_{1}=-0.5 \mathrm{~V}$
DC Input Voltage ( $\mathrm{V}_{\mathrm{l}}$ )
DC Output Diode Current (IOK)
$V_{O}=-0.5 \mathrm{~V}$
$\mathrm{V}_{\mathrm{O}}=\mathrm{V}_{\mathrm{CC}}+0.5 \mathrm{~V}$
DC Output Voltage ( $\mathrm{V}_{\mathrm{O}}$ )
DC Output Source
or Sink Current (IO)
DC $\mathrm{V}_{\mathrm{CC}}$ or Ground Current
(ICC or $I_{\text {GND }}$ )
Storage Temperature ( $\mathrm{T}_{\text {STG }}$ )
Power Dissipation

## DC Electrical Characteristics

| Symbol | Parameter | $\mathrm{V}_{\mathrm{cc}}$ | $\mathrm{T}_{\mathrm{A}}=+25^{\circ} \mathrm{C}$ |  |  | $\mathrm{T}_{\mathrm{A}}=-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  | Units | Conditions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Min | Typ | Max | Min | Max |  |  |
| $\overline{\mathrm{V}_{\mathrm{IH}}}$ | HIGH Level Input Voltage | $\begin{aligned} & \hline 2.0 \\ & 3.0 \\ & 3.6 \end{aligned}$ | $\begin{aligned} & \hline 1.5 \\ & 2.0 \\ & 2.4 \end{aligned}$ |  |  | $\begin{aligned} & 1.5 \\ & 2.0 \\ & 2.4 \end{aligned}$ |  | V |  |
| $\mathrm{V}_{\mathrm{IL}}$ | LOW Level Input Voltage | $\begin{aligned} & \hline 2.0 \\ & 3.0 \\ & 3.6 \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & \hline 0.5 \\ & 0.8 \\ & 0.8 \end{aligned}$ |  | $\begin{aligned} & \hline 0.5 \\ & 0.8 \\ & 0.8 \end{aligned}$ | V |  |
| $\mathrm{V}_{\mathrm{OH}}$ | HIGH Level Output Voltage | $\begin{aligned} & 2.0 \\ & 3.0 \\ & 3.0 \end{aligned}$ | $\begin{gathered} 1.9 \\ 2.9 \\ 2.58 \end{gathered}$ | $\begin{aligned} & \hline 2.0 \\ & 3.0 \end{aligned}$ |  | $\begin{gathered} 1.9 \\ 2.9 \\ 2.48 \end{gathered}$ |  | V | $\begin{array}{\|l\|l} \hline \mathrm{V}_{\mathrm{IN}}=\mathrm{V}_{\mathrm{IH}} \text { or } \mathrm{V}_{\mathrm{IL}} & \begin{array}{l} \mathrm{I}_{\mathrm{OH}}=-50 \mu \mathrm{~A} \\ \mathrm{I}_{\mathrm{OH}}=-50 \mu \mathrm{~A} \\ \mathrm{I}_{\mathrm{OH}}=-4 \mathrm{~mA} \end{array} \\ \hline \end{array}$ |
| $\mathrm{V}_{\text {OL }}$ | LOW Level Output Voltage | $\begin{aligned} & 2.0 \\ & 3.0 \\ & 3.0 \end{aligned}$ |  | $\begin{aligned} & \hline 0.0 \\ & 0.0 \end{aligned}$ | $\begin{gathered} \hline 0.1 \\ 0.1 \\ 0.36 \end{gathered}$ |  | $\begin{gathered} 0.1 \\ 0.1 \\ 0.44 \end{gathered}$ | V | $\begin{array}{\|l\|l} \mathrm{V}_{\mathrm{IN}}=\mathrm{V}_{\mathrm{IH}} \text { or } \mathrm{V}_{\mathrm{IL}} & \begin{array}{l} \mathrm{l}_{\mathrm{OL}}=50 \mu \mathrm{~A} \\ \mathrm{l}_{\mathrm{OL}}=50 \mu \mathrm{~A} \\ \mathrm{l}_{\mathrm{OL}}=4 \mathrm{~mA} \end{array} \\ \hline \end{array}$ |
| $\overline{\mathrm{I}} \mathrm{O}$ | 3-STATE Output Off-State Current | 3.6 |  |  | $\pm 0.25$ |  | $\pm 2.5$ | $\mu \mathrm{A}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{IN}}=\mathrm{V}_{\mathrm{IH}} \text { or } \mathrm{V}_{\mathrm{IL}} \\ & \mathrm{~V}_{\mathrm{OUT}}=\mathrm{V}_{\mathrm{CC}} \text { or } \mathrm{GND} \end{aligned}$ |
| $\mathrm{I}_{\text {IN }}$ | Input Leakage Current | 3.6 |  |  | $\pm 0.1$ |  | $\pm 1.0$ | $\mu \mathrm{A}$ | $\mathrm{V}_{\text {IN }}=5.5 \mathrm{~V}$ or GND |
| ICC | Quiescent Supply Current | 3.6 |  |  | 4.0 |  | 40.0 | $\mu \mathrm{A}$ | $\mathrm{V}_{\text {IN }}=\mathrm{V}_{\text {CC }}$ or GND |

Noise Characteristics (Note 3)

| Symbol | Parameter | $\mathbf{V}_{\mathbf{C C}}$ |  | $\mathbf{T}_{\mathbf{A}}=\mathbf{2 5}{ }^{\circ} \mathbf{C}$ |  | Units |
| :--- | :--- | ---: | ---: | ---: | :---: | :---: |

Note 3: Input $t_{r}=t_{f}=3 \mathrm{~ns}$.




Physical Dimensions inches (millimeters) unless otherwise noted (Continued)


20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide Package Number MTC20

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