


| Absolute Maximum Ratings（Note 2） |  | Recommended Operating |
| :---: | :---: | :---: |
| Supply Voltage（ $\mathrm{V}_{\mathrm{CC}}$ ） | -0.5 V to +4.6 V | Conditions（Note 4） |
| DC Input Voltage（ $\mathrm{V}_{\mathrm{l}}$ ） | -0.5 V to +4.6 V | Power Supply |
| Output Voltage（ $\mathrm{V}_{\mathrm{O}}$ ） |  | Operating $\quad 1.4 \mathrm{~V}$ to 3.6 V |
| Outputs 3－State | -0.5 V to +4.6 V | Data Retention Only 1.2 V to 3.6 V |
| Outputs Active（Note 3） | -0.5 to $\mathrm{V}_{\mathrm{CC}}+0.5 \mathrm{~V}$ | Input Voltage $\quad-0.3 \mathrm{~V}$ to 3.6 V |
| DC Input Diode Current（ $\mathrm{I}_{\mathrm{K}}$ ） $\mathrm{V}_{\mathrm{I}}<0 \mathrm{~V}$ | －50 mA | Output Voltage（ $\mathrm{V}_{\mathrm{O}}$ ） |
| DC Output Diode Current（ $\mathrm{I}_{\mathrm{OK}}$ ） |  | Output in Active States $\quad 0 \mathrm{~V}$ to $\mathrm{V}_{\mathrm{CC}}$ |
| $\mathrm{V}_{\mathrm{O}}<0 \mathrm{~V}$ | －50 mA | Output in 3－STATE $\quad 0.0 \mathrm{~V}$ to 3.6 V |
| $\mathrm{V}_{\mathrm{O}}>\mathrm{V}_{\mathrm{CC}}$ | ＋50 mA | Output Current in $\mathrm{IOH} / \mathrm{IOL}^{-}-\mathrm{A}$ Outputs |
| DC Output Source／Sink Current |  | $\mathrm{V}_{\mathrm{CC}}=3.0 \mathrm{~V}$ to 3.6 V |
| $\left(\mathrm{l}_{\mathrm{OH}} / \mathrm{l}_{\mathrm{OL}}\right)$ | $\pm 50 \mathrm{~mA}$ | $\mathrm{V}_{\mathrm{CC}}=2.3 \mathrm{~V}$ to 2.7 V |
| DC $\mathrm{V}_{\text {CC }}$ or Ground Current per |  | $\mathrm{V}_{\mathrm{CC}}=1.65 \mathrm{~V}$ to $1.95 \mathrm{~V} \quad \pm 3 \mathrm{~mA}$ |
| Supply Pin（ICC or Ground） | $\pm 100 \mathrm{~mA}$ | Output Current in $\pm \mathrm{l}_{\mathrm{OH}} / \mathrm{l}_{\mathrm{OL}}-\mathrm{B}$ Outputs |
| Storage Temperature Range（ $\mathrm{T}_{\text {STG }}$ ） | $-65^{\circ} \mathrm{C}$ to $+150^{\circ} \mathrm{C}$ | $\mathrm{V}_{\mathrm{CC}}=3.0 \mathrm{~V}$ to $3.6 \mathrm{~V} \quad \pm 24 \mathrm{~mA}$ |
|  |  | $\mathrm{V}_{\mathrm{CC}}=2.3 \mathrm{~V}$ to 2.7 V |
|  |  | $\mathrm{V}_{\text {CC }}=1.65 \mathrm{~V}$ to 2.3 V |
|  |  | Free Air Operating Temperature（ $\mathrm{T}_{\mathrm{A}}$ ）$\quad-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
|  |  | Minimum Input Edge Rate（ $\Delta \mathrm{t} / \Delta \mathrm{V}$ ） |
|  |  | $\mathrm{V}_{\text {IN }}=0.8 \mathrm{~V}$ to 2．0V， $\mathrm{V}_{\mathrm{CC}}=3.0 \mathrm{~V}$ |
|  |  | Note 2：The＂Absolute Maximum Ratings＂are those values beyond which the safety of the device cannot be guaranteed．The device should not be operated at these limits．The parametric values defined in the Electrical Characteristics tables are not guaranteed at the Absolute Maximum Rat－ ings．The Recommended Operating Conditions tables will define the condi－ tions for actual device operation． |
|  |  | Note 3： $\mathrm{l}_{\mathrm{O}}$ Absolute Maximum Rating must be observed． |
|  |  | Note 4：Floating or unused pins（inputs or I／O＇s）must be held HIGH or LOW． |

## DC Electrical Characteristics

| Symbol | Parameter | Conditions | $\begin{aligned} & \hline \mathrm{V}_{\mathrm{cc}} \\ & (\mathrm{~V}) \end{aligned}$ | Min | Max | Units |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\overline{\mathrm{V}_{\mathrm{IH}}}$ | HIGH Level Input Voltage |  | $\begin{gathered} \hline 2.7-3.6 \\ 2.3-2.7 \\ 1.65-2.3 \\ 1.4-1.6 \end{gathered}$ | 2.0 1.6 $0.65 \times V_{\mathrm{CC}}$ $0.65 \times \mathrm{V}_{\mathrm{CC}}$ |  | V |
| $\overline{\mathrm{V}} \mathrm{IL}$ | LOW Level Input Voltage |  | $\begin{gathered} 2.7-3.6 \\ 2.3-2.7 \\ 1.65-2.3 \\ 1.4-1.6 \end{gathered}$ |  | 0.8 0.7 $0.35 \times V_{\mathrm{CC}}$ $0.35 \times \mathrm{V}_{\mathrm{CC}}$ | V |
| $\overline{\mathrm{V} \text { OH }}$ | HIGH Level Output Voltage A Outputs | $\begin{aligned} & \mathrm{I}_{\mathrm{OH}}=-100 \mu \mathrm{~A} \\ & \mathrm{I}_{\mathrm{OH}}=-6 \mathrm{~mA} \\ & \mathrm{I}_{\mathrm{OH}}=-8 \mathrm{~mA} \\ & \mathrm{I}_{\mathrm{OH}}=-12 \mathrm{~mA} \\ & \hline \mathrm{I}_{\mathrm{OH}}=-100 \mu \mathrm{~A} \\ & \mathrm{I}_{\mathrm{OH}}=-4 \mathrm{~mA} \\ & \mathrm{I}_{\mathrm{OH}}=-6 \mathrm{~mA} \\ & \mathrm{I}_{\mathrm{OH}}=-8 \mathrm{~mA} \\ & \hline \mathrm{I}_{\mathrm{OH}}=-100 \mu \mathrm{~A} \\ & \mathrm{I}_{\mathrm{OH}}=-3 \mathrm{~mA} \\ & \hline \mathrm{I}_{\mathrm{OH}}=-100 \mu \mathrm{~A} \\ & \mathrm{I}_{\mathrm{OH}}=-1 \mathrm{~mA} \\ & \hline \end{aligned}$ | $2.7-3.6$ <br> 2.7 <br> 3.0 <br> 3.0 <br> $2.3-2.7$ <br> 2.3 <br> 2.3 <br> 2.3 <br> $1.65-2.3$ <br> .65 <br> $1.4-1.6$ <br> 1.4 |  <br> $\mathrm{V}_{\mathrm{CC}}-0.2$ <br> 2.2 <br> 2.4 <br> 2.2 <br> $\mathrm{~V}_{\mathrm{CC}}-0.2$ <br> 2.0 <br> 1.8 <br> 1.7 <br> $\mathrm{~V}_{\mathrm{CC}}-0.2$ <br> 1.4 <br> $\mathrm{~V}_{\mathrm{CC}}-0.2$ <br> 1.05 |  | V |



AC Electrical Characteristics（Note 6）

| Symbol | Parameter | Conditions | $\mathrm{V}_{\mathrm{Cc}}$ <br> （V） | $\mathrm{T}_{\mathrm{A}}=-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  | Units | Figure <br> Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Min | Max |  |  |
| $\overline{t_{\text {PHL }}}$ ， <br> $t_{\text {PLH }}$ | Propagation Delay B to A | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=500 \Omega$ | $3.3 \pm 0.3$ | 0.8 | 3.4 | ns | Figures 1， 2 |
|  |  |  | $2.5 \pm 0.2$ | 1.0 | 4.3 |  |  |
|  |  |  | $1.8 \pm 0.15$ | 1.5 | 8.6 |  |  |
|  |  | $\mathrm{C}_{\mathrm{L}}=15 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=2 \mathrm{k} \Omega$ | $1.5 \pm 0.1$ | 1.0 | 17.2 |  | $\begin{gathered} \text { Figures } \\ 5,6 \end{gathered}$ |
| $\begin{aligned} & \hline \mathrm{t}_{\mathrm{PZL}}, \\ & \mathrm{t}_{\mathrm{PZH}} \end{aligned}$ | Output Enable Time B to A | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=500 \Omega$ | $3.3 \pm 0.3$ | 0.8 | 4.2 | ns | Figures$1,3,4$ |
|  |  |  | $2.5 \pm 0.2$ | 1.0 | 5.7 |  |  |
|  |  |  | $1.8 \pm 0.15$ | 1.5 | 9.8 |  |  |
|  |  | $\mathrm{C}_{\mathrm{L}}=15 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=2 \mathrm{k} \Omega$ | $1.5 \pm 0.1$ | 1.0 | 19.6 |  | $\begin{gathered} \hline \text { Figures } \\ 5,7,8 \end{gathered}$ |
| $\begin{aligned} & \overline{t_{\text {PLZ }}}, \\ & \mathrm{t}_{\mathrm{PHZ}} \end{aligned}$ | Output Disable Time B to A | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=500 \Omega$ | $3.3 \pm 0.3$ | 0.8 | 4.1 | ns | $\begin{gathered} \text { Figures } \\ 1,3,4 \end{gathered}$ |
|  |  |  | $2.5 \pm 0.2$ | 1.0 | 4.8 |  |  |
|  |  |  | $1.8 \pm 0.15$ | 1.5 | 8.6 |  |  |
|  |  | $\mathrm{C}_{\mathrm{L}}=15 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=2 \mathrm{k} \Omega$ | $1.5 \pm 0.1$ | 1.0 | 17.2 |  | $\begin{array}{\|c\|} \hline \text { Figures } \\ 5,7,8 \end{array}$ |
| $\mathrm{t}_{\mathrm{PHL}}$ ， <br> $t_{\text {PLH }}$ | Propagation Delay A to B | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=500 \Omega$ | $3.3 \pm 0.3$ | 0.8 | 2.5 | ns | Figures 1， 2 |
|  |  |  | $2.5 \pm 0.2$ | 1.0 | 3.0 |  |  |
|  |  |  | $1.8 \pm 0.15$ | 1.5 | 6.0 |  |  |
|  |  | $\mathrm{C}_{\mathrm{L}}=15 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=2 \mathrm{k} \Omega$ | $1.5 \pm 0.1$ | 1.0 | 12.0 |  | $\begin{array}{\|c\|} \hline \text { Figures } \\ 5,6 \end{array}$ |
| $\begin{aligned} & \overline{\mathrm{t}_{\text {PZL }}} \\ & \mathrm{t}_{\text {PZH }} \end{aligned}$ | Output Enable Time A to B | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=500 \Omega$ | $3.3 \pm 0.3$ | 0.8 | 3.5 | ns | Figures$1,3,4$ |
|  |  |  | $2.5 \pm 0.2$ | 1.0 | 4.1 |  |  |
|  |  |  | $1.8 \pm 0.15$ | 1.5 | 8.2 |  |  |
|  |  | $\mathrm{C}_{\mathrm{L}}=15 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=2 \mathrm{k} \Omega$ | $1.5 \pm 0.1$ | 1.0 | 16.4 |  | $\begin{array}{\|c\|} \hline \text { Figures } \\ 5,7,8 \end{array}$ |
| $\begin{aligned} & \overline{t_{\mathrm{PLZ}}}, \\ & \mathrm{t}_{\mathrm{PHZ}} \end{aligned}$ | Output Disable Time A to B | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=500 \Omega$ | $3.3 \pm 0.3$ | 0.8 | 3.5 | ns | Figures$1,3,4$ |
|  |  |  | $2.5 \pm 0.2$ | 1.0 | 3.8 |  |  |
|  |  |  | $1.8 \pm 0.15$ | 1.5 | 6.8 |  |  |
|  |  | $\mathrm{C}_{\mathrm{L}}=15 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=2 \mathrm{k} \Omega$ | $1.5 \pm 0.1$ | 1.0 | 13.6 |  | $\begin{gathered} \hline \text { Figures } \\ 5,7,8 \end{gathered}$ |
| toshl， <br> tosth | Output－to－Output Skew （Note 7） | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=500 \Omega$ | $3.3 \pm 0.3$ |  | 0.5 | ns |  |
|  |  |  | $2.5 \pm 0.2$ |  | 0.5 |  |  |
|  |  |  | $1.8 \pm 0.15$ |  | 0.75 |  |  |
|  |  | $\mathrm{C}_{\mathrm{L}}=15 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=2 \mathrm{k} \Omega$ | $1.5 \pm 0.1$ |  | 1.5 |  |  |

74VCX162245
Dynamic Switching Characteristics

| Symbol | Parameter | Conditions | $\mathrm{V}_{\mathrm{cc}}$ <br> (V) | $\begin{array}{\|c\|} \hline \mathrm{T}_{\mathrm{A}}=+25^{\circ} \mathrm{C} \\ \hline \text { Typical } \\ \hline \end{array}$ | Units |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| $\mathrm{V}_{\text {OLP }}$ | Quiet Output DynamicPeak $\mathrm{V}_{\text {OL }}$, to B | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{V}_{\mathrm{IH}}=\mathrm{V}_{\mathrm{CC}}, \mathrm{V}_{\mathrm{IL}}=0 \mathrm{~V}$ | 1.8 | 0.25 | V |
|  |  |  | 2.5 | 0.6 |  |
|  |  |  | 3.3 | 0.8 |  |
| $\mathrm{V}_{\text {OLP }}$ | Quiet Output Dynamic | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{V}_{\mathrm{IH}}=\mathrm{V}_{\mathrm{CC}}, \mathrm{V}_{\mathrm{IL}}=0 \mathrm{~V}$ | 1.8 | 0.15 | v |
|  | Peak $\mathrm{V}_{\text {OL }}, \mathrm{B}$ to A |  | 2.5 | 0.25 |  |
|  |  |  | 3.3 | 0.35 |  |
| $\mathrm{V}_{\text {OLV }}$ | Quiet Output Dynamic | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{V}_{\mathrm{IH}}=\mathrm{V}_{\mathrm{CC}}, \mathrm{V}_{\mathrm{IL}}=0 \mathrm{~V}$ | 1.8 | -0.25 | V |
|  | Valley $\mathrm{V}_{\text {OL }}$, A to B |  | 2.5 | -0.6 |  |
|  |  |  | 3.3 | -0.8 |  |
| $\mathrm{V}_{\text {OLV }}$ | Quiet Output Dynamic | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{V}_{\mathrm{IH}}=\mathrm{V}_{\mathrm{CC}}, \mathrm{V}_{\mathrm{IL}}=0 \mathrm{~V}$ | 1.8 | -0.15 | v |
|  | Valley $\mathrm{V}_{\mathrm{OL}}$, B to A |  | 2.5 | -0.25 |  |
|  |  |  | 3.3 | -0.35 |  |
| $\mathrm{V}_{\text {OHV }}$ | Quiet Output Dynamic | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{V}_{\mathrm{IH}}=\mathrm{V}_{\mathrm{CC}}, \mathrm{V}_{\mathrm{IL}}=0 \mathrm{~V}$ | 1.8 | 1.5 | V |
|  | Valley $\mathrm{V}_{\text {OH }}$, A to B |  | 2.5 | 1.9 |  |
|  |  |  | 3.3 | 2.2 |  |
| $\mathrm{V}_{\text {OHV }}$ | Quiet Output Dynamic | $\mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{V}_{\mathrm{IH}}=\mathrm{V}_{\mathrm{CC}}, \mathrm{V}_{\mathrm{IL}}=0 \mathrm{~V}$ | 1.8 | 1.55 | v |
|  | Valley $\mathrm{V}_{\mathrm{OH}}, \mathrm{B}$ to A |  | 2.5 | 2.05 |  |
|  |  |  | 3.3 | 2.65 |  |

## Capacitance

| Symbol | Conditions | $\mathrm{T}_{\mathbf{A}}=+\mathbf{2 5 ^ { \circ } \mathrm { C }}$ | Units |  |
| :--- | :--- | :--- | :---: | :---: |
| $\mathrm{C}_{\mathrm{IN}}$ | Input Capacitance | $\mathrm{V}_{\mathrm{CC}}=1.8 \mathrm{~V}, 2.5 \mathrm{~V}$, or $3.3 \mathrm{~V}, \mathrm{~V}_{\mathrm{I}}=0 \mathrm{~V}$ or $\mathrm{V}_{\mathrm{CC}}$ | 6 | pF |
| $\mathrm{C}_{I / \mathrm{O}}$ | Output Capacitance | $\mathrm{V}_{\mathrm{I}}=0 \mathrm{~V}$, or $\mathrm{V}_{\mathrm{CC}}, \mathrm{V}_{\mathrm{CC}}=1.8 \mathrm{~V}, 2.5 \mathrm{~V}$ or 3.3 V | 7 | pF |
| $\mathrm{C}_{\mathrm{PD}}$ | Power Dissipation Capacitance | $\mathrm{V}_{\mathrm{I}}=0 \mathrm{~V}$ or $\mathrm{V}_{\mathrm{CC}}, \mathrm{f}=10 \mathrm{MHz}$ <br> $\mathrm{V}_{\mathrm{CC}}=1.8 \mathrm{~V}, 2.5 \mathrm{~V}$ or 3.3 V | 20 | pF |

## AC Loading and Waveforms ( $\mathrm{V}_{\mathrm{CC}} 3.3 \mathrm{~V} \pm 0.3 \mathrm{~V}$ to $1.8 \mathrm{~V} \pm 0.15 \mathrm{~V}$ )



FIGURE 1. AC Test Circuit

| TEST | SWITCH |
| :---: | :---: |
| $\mathrm{t}_{\text {PLH }}, \mathrm{t}_{\mathrm{PHL}}$ | Open |
| $\mathrm{t}_{\mathrm{PZL}}, \mathrm{t}_{\mathrm{PLZ}}$ | 6 V at $\mathrm{V}_{\mathrm{CC}}=3.3 \pm 0.3 \mathrm{~V} ;$ |
|  | $\mathrm{V}_{\mathrm{CC}} \times 2$ at $\mathrm{V}_{\mathrm{CC}}=2.5 \pm 0.2 \mathrm{~V} ; 1.8 \mathrm{~V} \pm 0.15 \mathrm{~V}$ |
| $\mathrm{t}_{\mathrm{PZH}}, \mathrm{t}_{\mathrm{PHZ}}$ | GND |



FIGURE 2. Waveform for Inverting and Non-inverting Functions


FIGURE 3. 3-STATE Output HIGH Enable and Disable Times for LOW Voltage Logic


FIGURE 4. 3-STATE Output LOW Enable and Disable Times for LOW Voltage Logic

| Symbol | $\mathrm{V}_{\mathbf{C C}}$ |  |  |
| :--- | :---: | :---: | :---: |
|  | $\mathbf{3 . 3 V} \pm \mathbf{0 . 3 V}$ | $\mathbf{2 . 5 V} \pm \mathbf{0 . 2 V}$ | $\mathbf{1 . 8 V} \pm \mathbf{0 . 1 5 V}$ |
| $\mathrm{V}_{\mathrm{mi}}$ | 1.5 V | $\mathrm{~V}_{\mathrm{CC}} / 2$ | $\mathrm{~V}_{\mathrm{CC}} / 2$ |
| $\mathrm{~V}_{\mathrm{mo}}$ | 1.5 V | $\mathrm{~V}_{\mathrm{CC}} / 2$ | $\mathrm{~V}_{\mathrm{CC}} / 2$ |
| $\mathrm{~V}_{\mathrm{X}}$ | $\mathrm{V}_{\mathrm{OL}}+0.3 \mathrm{~V}$ | $\mathrm{~V}_{\mathrm{OL}}+0.15 \mathrm{~V}$ | $\mathrm{~V}_{\mathrm{OL}}+0.15 \mathrm{~V}$ |
| $\mathrm{~V}_{\mathrm{Y}}$ | $\mathrm{V}_{\mathrm{OH}}-0.3 \mathrm{~V}$ | $\mathrm{~V}_{\mathrm{OH}}-0.15 \mathrm{~V}$ | $\mathrm{~V}_{\mathrm{OH}}-0.15 \mathrm{~V}$ |

AC Loading and Waveforms ( $\mathrm{V}_{\mathrm{cc}} 1.5 \mathrm{~V} \pm 0.1 \mathrm{~V}$ )


| TEST | SWITCH |
| :---: | :---: |
| $\mathrm{t}_{\mathrm{PLH}}, \mathrm{t}_{\mathrm{PHL}}$ | Open |
| $\mathrm{t}_{\mathrm{PZL}}, \mathrm{t}_{\mathrm{PLZ}}$ | $\mathrm{V}_{\mathrm{CC}} \times 2$ at $\mathrm{V}_{\mathrm{CC}}=1.5 \mathrm{~V} \pm 0.1 \mathrm{~V}$ |
| $\mathrm{t}_{\mathrm{PZH}}, \mathrm{t}_{\mathrm{PHZ}}$ | GND |



FIGURE 6. Waveform for Inverting and Non-inverting Functions


FIGURE 7. 3-STATE Output HIGH Enable and Disable Times for LOW Voltage Logic


FIGURE 8. 3-STATE Output LOW Enable and Disable Times for LOW Voltage Logic

| Symbol | $\mathrm{V}_{\mathbf{C C}}$ |
| :---: | :---: |
|  | $\mathbf{1 . 5 V} \pm \mathbf{0 . 1} \mathrm{V}$ |
| $\mathrm{V}_{\mathrm{mi}}$ | $\mathrm{V}_{\mathrm{CC}} / 2$ |
| $\mathrm{~V}_{\mathrm{mo}}$ | $\mathrm{V}_{\mathrm{CC}} / 2$ |
| $\mathrm{~V}_{\mathrm{X}}$ | $\mathrm{V}_{\mathrm{OL}}+0.1 \mathrm{~V}$ |
| $\mathrm{~V}_{\mathrm{Y}}$ | $\mathrm{V}_{\mathrm{OH}}-0.1 \mathrm{~V}$ |

Physical Dimensions inches (millimeters) unless otherwise noted


## Package Number MTD48

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