


## Absolute Maximum Ratings(Note 2)



DC Switch Voltage ( $\mathrm{V}_{\mathrm{S}}$ )
DC Input Voltage ( $\mathrm{V}_{\mathrm{IN}}$ ) (Note 3)
DC Input Diode Current $\left(l_{\text {IK }}\right) \mathrm{V}_{\text {IN }}<0 \mathrm{~V}$
DC Output (I IOUT) Sink Current
DC $\mathrm{V}_{\mathrm{CC}} / \mathrm{GND}$ Current ( $\mathrm{I}_{\mathrm{CC}} / \mathrm{I}_{\mathrm{GND}}$ )
Storage Temperature Range ( $\mathrm{T}_{\mathrm{STG}}$ ) ESD

Human Body Model
-0.5 V to +4.6 V
-0.5 V to $\mathrm{V}_{\mathrm{CC}}+0.05 \mathrm{~V}$
-0.5 V to +4.6 V
$-50 \mathrm{~mA}$
128 mA
$\pm 100 \mathrm{~mA}$
$-65^{\circ} \mathrm{C}$ to $+150^{\circ} \mathrm{C}$

## Recommended Operating

 Conditions (Note 4)| Power Supply Operating $\left(\mathrm{V}_{\mathrm{CC}}\right)$ | 3.0 V to 3.6 V |
| :--- | ---: |
| Input Voltage $\left(\mathrm{V}_{\mathrm{IN}}\right)$ | 0 V to $\mathrm{V}_{\mathrm{CC}}$ |
| Output Voltage $\left(\mathrm{V}_{\text {OUT }}\right)$ | 0 V to $\mathrm{V}_{\mathrm{CC}}$ |
| Input Rise and Fall Time $\left(\mathrm{t}_{\mathrm{r}}, \mathrm{t}_{\mathrm{f}}\right)$ |  |
| $\quad$ Switch Control Input | $0 \mathrm{~ns} / \mathrm{V}$ to $5 \mathrm{~ns} / \mathrm{V}$ |
| $\quad$ Switch I/O | $0 \mathrm{~ns} / \mathrm{V}$ to DC |
| Free Air Operating Temperature $\left(\mathrm{T}_{\mathrm{A}}\right)$ | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |






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Physical Dimensions inches (millimeters) unless otherwise noted


RECOMMENDED LAND PATTERN


NOTES:
A. CONFORMS TO JEDEC REGISTRATION MO-241, VARIATION AB
B. DIMENSIONS ARE IN MILLIMETERS
C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994

MLP016ErevA

16-Terminal Depopulated Quad Very-Thin Flat Pack No Leads (DQFN), JEDEC MO-241, $2.5 \times 3.5 \mathrm{~mm}$ Package Number MLP016E


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


# 16-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide Package Number MTC16 

## Technology Description

The Fairchild Switch family derives from and embodies Fairchild's proven switch technology used for several years in its 74LVX3L384 (FST3384) bus switch product.

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