## Improved Quad CMOS Analog Switches

## DESCRIPTION

The DG201B, DG202B analog switches are highly improved versions of the industry-standard DG201A, DG202. These devices are fabricated in Vishay Siliconix' proprietary silicon gate CMOS process, resulting in lower on-resistance, lower leakage, higher speed, and lower power consumption.

These quad single-pole single-throw switches are designed for a wide variety of applications in telecommunications, instrumentation, process control, computer peripherals, etc. An improved charge injection compensation design minimizes switching transients. The DG201B and DG202B can handle up to $\pm 22 \mathrm{~V}$ input signals, and have an improved continuous current rating of 30 mA . An epitaxial layer prevents latchup.

All devices feature true bi-directional performance in the on condition, and will block signals to the supply voltages in the off condition.

The DG201B is a normally closed switch and the DG202B is a normally open switch. (see Truth Table.)

## FEATURES

- $\pm 22 \mathrm{~V}$ supply voltage rating
- TTL and CMOS compatible logic
- Low on-resistance - $\mathrm{R}_{\mathrm{DS}(\mathrm{on})}: 45 \Omega$
- Low leakage - $I_{D(o n)}$ : 20 pA
- Single supply operation possible
- Extended temperature range
- Fast switching - $\mathrm{t}_{\mathrm{ON}}$ : 120 ns
- Low glitching - Q: 1 pC
- Compliant to RoHS Directive 2002/95/EC


## BENEFITS

- Wide analog signal range
- Simple logic interface
- Higher accuracy
- Minimum transients
- Reduced power consumption
- Superior to DG201A, DG202
- Space savings (TSSOP)


## APPLICATIONS

- Industrial instrumentation
- Test equipment
- Communications systems
- Disk drives
- Computer peripherals
- Portable instruments
- Sample-and-hold circuits

FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION


| TRUTH TABLE |  |  |
| :---: | :---: | :---: |
| Logic | DG201B | DG202B |
| 0 | ON | OFF |
| 1 | OFF | ON |

Logic " 0 " $\leq 0.8 \mathrm{~V}$
Logic "1" $\geq 2.4 \mathrm{~V}$

* Pb containing terminations are not RoHS compliant, exemptions may apply

Vishay Siliconix

| ORDERING INFORMATION |  |  |
| :---: | :---: | :---: |
| Temp. Range | Package | Part Number |
| $-55^{\circ} \mathrm{C}$ to $125^{\circ} \mathrm{C}$ | 16-pin CerDIP | DG201BAK |
|  |  | DG202BAK |
| $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ | 16-pin Plastic DIP | $\begin{gathered} \hline \text { DG201BDJ } \\ \text { DG201BDJ-E3 } \end{gathered}$ |
|  |  | $\begin{gathered} \text { DG202BDJ } \\ \text { DG202BDJ-E3 } \end{gathered}$ |
|  | 16-pin narrow SOIC | $\begin{gathered} \text { DG201BDY } \\ \text { DG201BDY-E3 } \\ \text { DG201BDY-T1 } \\ \text { DG201BDY-T1-E3 } \end{gathered}$ |
|  |  | $\begin{gathered} \text { DG202BDY } \\ \text { DG202BDY-E3 } \\ \text { DG202BDY-T1 } \\ \text { DG202BDY-T1-E3 } \end{gathered}$ |
|  | 16-pin TSSOP | $\begin{gathered} \hline \text { DG201BDQ } \\ \text { DG201BDQ-E3 } \\ \text { DG201BDQ-T1 } \\ \text { DG201BDQ-T1-E3 } \end{gathered}$ |
|  |  | $\begin{gathered} \hline \text { DG202BDQ } \\ \text { DG202BDQ-E3 } \\ \text { DG202BDQ-T1 } \\ \text { DG202BDQ-T1-E3 } \end{gathered}$ |


| ABSOLUTE MAXIMUM RATINGS |  |  |  |
| :---: | :---: | :---: | :---: |
| Parameter |  | Limit | Unit |
| Voltages Referenced, V+ to V- |  | 44 | V |
| GND |  | 25 |  |
| Digital Inputs ${ }^{\text {a }}$, $\mathrm{V}_{\mathrm{S}}, \mathrm{V}_{\mathrm{D}}$ |  | $(\mathrm{V}-)-2 \text { to }(\mathrm{V}+)+2$ <br> or 30 mA , whichever occurs first |  |
| Current (Any terminal) |  | 30 | mA |
| Peak Current S or D (Pulsed at $1 \mathrm{~ms}, 10 \%$ duty cycle max.) |  | 100 |  |
| Storage Temperature | (AK, DK suffix) | - 65 to 150 | ${ }^{\circ} \mathrm{C}$ |
|  | (DJ, DY, DQ suffix) | - 65 to 125 |  |
| Power Dissipation (Package) ${ }^{\text {b }}$ | 16-pin plastic DIP ${ }^{\text {c }}$ | 470 | mW |
|  | 16-pin narrow SOIC and TSSOP ${ }^{\text {d }}$ | 640 |  |
|  | 16-pin CerDIP ${ }^{\text {e }}$ | 900 |  |
|  | LCC-20 ${ }^{\text {f }}$ | 750 |  |

## Notes:

a. Signals on $S_{X}, D_{X}$, or $I N_{X}$ exceeding $V+$ or $V$ - will be clamped by internal diodes. Limit forward diode current to maximum current ratings.
b. All leads welded or soldered to PC board.
c. Derate $6.5 \mathrm{~mW} /{ }^{\circ} \mathrm{C}$ above $75^{\circ} \mathrm{C}$.
d. Derate $7.6 \mathrm{~mW} /{ }^{\circ} \mathrm{C}$ above $75^{\circ} \mathrm{C}$.
e. Derate $12 \mathrm{~mW} /{ }^{\circ} \mathrm{C}$ above $75^{\circ} \mathrm{C}$.
f. Derate $10 \mathrm{~mW} /{ }^{\circ} \mathrm{C}$ above $75^{\circ} \mathrm{C}$.

SCHEMATIC DIAGRAM (typical channel)


Figure 1.

| SPECIFICATIONS ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parameter | Symbol | Test Conditions Unless Specified$\begin{gathered} \mathrm{V}+=15 \mathrm{~V}, \mathrm{~V}-=-15 \mathrm{~V} \\ \mathrm{~V}_{\mathrm{IN}}=2.4 \mathrm{~V}, 0.8 \mathrm{~V}^{\mathrm{f}} \end{gathered}$ | Temp. ${ }^{\text {b }}$ | Typ. ${ }^{\text {c }}$ | $\begin{gathered} \text { A Suffix } \\ -55^{\circ} \mathrm{C} \text { to } 125^{\circ} \mathrm{C} \end{gathered}$ |  | $\begin{gathered} \text { D Suffix } \\ -40^{\circ} \mathrm{C} \text { to } 85^{\circ} \mathrm{C} \end{gathered}$ |  | Unit |
|  |  |  |  |  | Min. ${ }^{\text {d }}$ | Max. ${ }^{\text {d }}$ | Min. ${ }^{\text {d }}$ | Max. ${ }^{\text {d }}$ |  |
| Analog Switch |  |  |  |  |  |  |  |  |  |
| Analog Signal Range ${ }^{\text {e }}$ | $\mathrm{V}_{\text {ANALOG }}$ |  | Full |  | -15 | 15 | - 15 | 15 | V |
| Drain-Source On-Resistance | $\mathrm{R}_{\mathrm{DS} \text { (on) }}$ | $\mathrm{V}_{\mathrm{D}}= \pm 10 \mathrm{~V}, \mathrm{I}_{\mathrm{S}}=1 \mathrm{~mA}$ | Room Full | 45 |  | $\begin{gathered} 85 \\ 100 \end{gathered}$ |  | $\begin{gathered} \hline 85 \\ 100 \end{gathered}$ | $\Omega$ |
| $\mathrm{R}_{\mathrm{DS} \text { (on) }}$ Match | $\Delta \mathrm{R}_{\mathrm{DS} \text { (on }}$ |  | Room | 2 |  |  |  |  |  |
| Source Off Leakage Current | $\mathrm{I}_{\mathrm{S} \text { (off) }}$ | $V_{S}= \pm 14 \mathrm{~V}, \mathrm{~V}_{\mathrm{D}}= \pm 14 \mathrm{~V}$ | Room Full | $\pm 0.01$ | $\begin{aligned} & -0.5 \\ & -20 \end{aligned}$ | $\begin{aligned} & 0.5 \\ & 20 \end{aligned}$ | $\begin{gathered} -0.5 \\ -5 \end{gathered}$ | $\begin{gathered} 0.5 \\ 5 \end{gathered}$ |  |
| Drain Off Leakage Current | $I_{D(\text { (ffi) }}$ | $\mathrm{V}_{\mathrm{D}}= \pm 14 \mathrm{~V}, \mathrm{~V}_{S}= \pm 14 \mathrm{~V}$ | Room Full | $\pm 0.01$ | $\begin{aligned} & -0.5 \\ & -20 \end{aligned}$ | $\begin{aligned} & 0.5 \\ & 20 \end{aligned}$ | $\begin{gathered} -0.5 \\ -5 \end{gathered}$ | $\begin{gathered} 0.5 \\ 5 \end{gathered}$ | nA |
| Drain On Leakage Current | $\mathrm{I}_{\mathrm{D} \text { (on) }}$ | $\mathrm{V}_{\mathrm{S}}=\mathrm{V}_{\mathrm{D}}= \pm 14 \mathrm{~V}$ | Room Full | $\pm 0.02$ | $\begin{aligned} & -0.5 \\ & -40 \end{aligned}$ | $\begin{aligned} & 0.5 \\ & 40 \end{aligned}$ | $\begin{gathered} -0.5 \\ -10 \end{gathered}$ | $\begin{gathered} 0.5 \\ 10 \end{gathered}$ |  |
| Digital Control |  |  |  |  |  |  |  |  |  |
| Input Voltage High | $\mathrm{V}_{\text {INH }}$ |  | Full |  | 2.4 |  | 2.4 |  | V |
| Input Voltage Low | $\mathrm{V}_{\text {INL }}$ |  | Full |  |  | 0.8 |  | 0.8 |  |
| Input Current | $\mathrm{l}_{\mathrm{INH}}$ or $\mathrm{I}_{\mathrm{INL}}$ | $\mathrm{V}_{\text {INH }}$ or $\mathrm{V}_{\text {INL }}$ | Full |  | -1 | 1 | -1 | 1 | $\mu \mathrm{A}$ |
| Input Capacitance | $\mathrm{C}_{\text {IN }}$ |  | Room | 5 |  |  |  |  | pF |
| Dynamic Characteristics |  |  |  |  |  |  |  |  |  |
| Turn-On Time | ${ }^{\text {ton }}$ | $\mathrm{V}_{S}=2 \mathrm{~V}$ | $\begin{gathered} \hline \text { Room } \\ \text { Full } \\ \hline \end{gathered}$ | 120 |  | 300 |  | 300 |  |
| Turn-Off Time | $\mathrm{t}_{\text {OFF }}$ | see switching time test circuit | Room Full | 65 |  | 200 |  | 200 | ns |
| Charge Injection | Q | $\begin{gathered} \mathrm{C}_{\mathrm{L}}=1000 \mathrm{pF}, \mathrm{~V}_{\mathrm{g}}=0 \mathrm{~V} \\ \mathrm{R}_{\mathrm{g}}=0 \Omega \end{gathered}$ | Room | 1 |  |  |  |  | pC |
| Source-Off Capacitance | $\mathrm{C}_{\text {S(off) }}$ |  | Room | 5 |  |  |  |  |  |
| Drain-Off Capacitance | $\mathrm{C}_{\mathrm{D} \text { (off) }}$ | $\mathrm{f}=1 \mathrm{MHz}$ | Room | 5 |  |  |  |  | pF |
| Channel On Capacitance | $\mathrm{C}_{\mathrm{D} \text { (on) }}$ | $\mathrm{V}_{\mathrm{D}}=\mathrm{V}_{\mathrm{S}}=0 \mathrm{~V}, \mathrm{f}=1 \mathrm{MHz}$ | Room | 16 |  |  |  |  |  |
| Off Isolation | OIRR |  | Room | 90 |  |  |  |  |  |
| Channel-to-Channel Crosstalk | $\mathrm{X}_{\text {TALK }}$ | $V_{S}=1 \mathrm{~V}_{\mathrm{RMS}}, f=100 \mathrm{kHz}$ | Room | 95 |  |  |  |  | dB |
| Power Supply |  |  |  |  |  |  |  |  |  |
| Positive Supply Current | I+ |  | Room Full |  |  | $\begin{gathered} \hline 50 \\ 100 \end{gathered}$ |  | $\begin{gathered} \hline 50 \\ 100 \end{gathered}$ |  |
| Negative Supply Current | I- | $\mathrm{V}_{\text {IN }}=0$ or 5 V | $\begin{aligned} & \hline \text { Room } \\ & \text { Full } \end{aligned}$ |  | $\begin{aligned} & \hline-1 \\ & -5 \end{aligned}$ |  | $\begin{aligned} & \hline-1 \\ & -5 \end{aligned}$ |  | $\mu \mathrm{A}$ |
| Power Supply Range for Continuous Operation | $\mathrm{V}_{\mathrm{OP}}$ |  | Full |  | $\pm 4.5$ | $\pm 22$ | $\pm 4.5$ | $\pm 22$ | V |


| SPECIFICATIONS (for Single Supply) ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parameter | Symbol | Test Conditions Unless Specified$\begin{aligned} & \mathrm{V}_{+}=12 \mathrm{~V}, \mathrm{~V}-=0 \mathrm{~V} \\ & \mathrm{~V}_{\mathrm{IN}}=2.4 \mathrm{~V}, 0.8 \mathrm{~V}^{+} \end{aligned}$ | Temp. ${ }^{\text {b }}$ | Typ. ${ }^{\text {c }}$ | $\begin{gathered} \text { A Suffix } \\ -55^{\circ} \mathrm{C} \text { to } 125^{\circ} \mathrm{C} \end{gathered}$ |  | $\begin{gathered} \text { D Suffix } \\ -40^{\circ} \mathrm{C} \text { to } 85^{\circ} \mathrm{C} \end{gathered}$ |  | Unit |
|  |  |  |  |  | Min. ${ }^{\text {d }}$ | Max. ${ }^{\text {d }}$ | Min. ${ }^{\text {d }}$ | Max. ${ }^{\text {d }}$ |  |
| Analog Switch |  |  |  |  |  |  |  |  |  |
| Analog Signal Range ${ }^{\text {e }}$ | $\mathrm{V}_{\text {ANALOG }}$ |  | Full |  | 0 | 12 | 0 | 12 | V |
| Drain-Source On-Resistance | $\mathrm{R}_{\mathrm{DS} \text { (on) }}$ | $\mathrm{V}_{\mathrm{D}}=3 \mathrm{~V}, 8 \mathrm{~V}, \mathrm{I}_{\mathrm{S}}=1 \mathrm{~mA}$ | Room Full | 90 |  | $\begin{aligned} & 160 \\ & 200 \end{aligned}$ |  | $\begin{aligned} & \hline 160 \\ & 200 \end{aligned}$ | $\Omega$ |
| Dynamic Characteristics |  |  |  |  |  |  |  |  |  |
| Turn-On Time | $\mathrm{t}_{\mathrm{ON}}$ | $\mathrm{V}_{\mathrm{S}}=8 \mathrm{~V}$ | Room | 120 |  | 300 |  | 300 | ns |
| Turn-Off Time | $\mathrm{t}_{\text {OFF }}$ | see switching time test circuit | Room | 60 |  | 200 |  | 200 | ns |
| Charge Injection | Q | $\begin{gathered} \mathrm{C}_{\mathrm{L}}=1 \mathrm{nF}, \mathrm{~V}_{\text {gen }}=6 \mathrm{~V} \\ \mathrm{R}_{\text {gen }}=0 \Omega \end{gathered}$ | Room | 4 |  |  |  |  | pC |
| Power Supply |  |  |  |  |  |  |  |  |  |
| Positive Supply Current | I+ | =0 or 5 V | Room Full |  |  | $\begin{gathered} \hline 50 \\ 100 \end{gathered}$ |  | $\begin{gathered} 50 \\ 100 \end{gathered}$ | A |
| Negative Supply Current | I- | - $=0$ O 5 | Room Full |  | -1 -5 |  | -1 -5 |  |  |
| Power Supply Range for Continuous Operation | $\mathrm{V}_{\mathrm{OP}}$ |  | Full |  | + 4.5 | + 25 | + 4.5 | + 25 | V |

Notes:
a. Refer to PROCESS OPTION FLOWCHART.
b. Room $=25^{\circ} \mathrm{C}$, Full = as determined by the operating temperature suffix.
c. Typical values are for DESIGN AID ONLY, not guaranteed nor subject to production testing.
d. The algebraic convention whereby the most negative value is a minimum and the most positive a maximum, is used in this data sheet.
e. Guaranteed by design, not subject to production test.
f. $\mathrm{V}_{\mathrm{IN}}=$ input voltage to perform proper function.

TYPICAL CHARACTERISTICS ( $25^{\circ} \mathrm{C}$, unless otherwise noted)

$R_{\text {DS(on) }}$ vs. $V_{D}$ and Power Supply Voltages

$\mathbf{R}_{\mathrm{DS}(\mathrm{on})}$ vs. $\mathbf{V}_{\mathrm{D}}$ and Single Power Supply Voltages


Leakage Currents vs. Analog Voltage

$\mathbf{R}_{\mathrm{DS}(\mathrm{on})}$ vs. $\mathrm{V}_{\mathrm{D}}$ and Temperature


Input Switching Threshold vs. Supply Voltage


TYPICAL CHARACTERISTICS $\left(25^{\circ} \mathrm{C}\right.$, unless otherwise noted)


Switching Time vs. Single Supply Voltage



V+, V- Positive and Negative Supplies (V)
Switching Time vs. Power Supply Voltage



## TEST CIRCUITS



Figure 2. Switching Time


Figure 3. Off Isolation



Figure 4. Channel-to-Channel Crosstalk

$\Delta \mathrm{V}_{\mathrm{O}}=$ measured voltage error due to charge injection The charge injection in coulombs is $\mathrm{Q}=\mathrm{C}_{\mathrm{L}} \times \Delta \mathrm{V}_{\mathrm{O}}$

Figure 5. Charge Injection

## APPLICATIONS



Figure 6. Sample-and-Hold


Figure 7. Active Low Pass Filter with Digitally Selected Break Frequency

## APPLICATIONS



Figure 8. A Precision Amplifier with Digitally Programable Input and Gains

Vishay Siliconix maintains worldwide manufacturing capability. Products may be manufactured at one of several qualified locations. Reliability data for Silicon Technology and Package Reliability represent a composite of all qualified locations. For related documents such as package/tape drawings, part marking, and reliability data, see www.vishay.com/ppg? 70037.

SOIC (NARROW): 16-LEAD
JEDEC Part Number: MS-012


| $\operatorname{Dim}$ | MILLIMETERS |  | INCHES |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Min | Max | Min | Max |
| $\mathbf{A}$ | 1.35 | 1.75 | 0.053 | 0.069 |
| $\mathbf{A}_{\mathbf{1}}$ | 0.10 | 0.20 | 0.004 | 0.008 |
| $\mathbf{B}$ | 0.38 | 0.51 | 0.015 | 0.020 |
| C | 0.18 | 0.23 | 0.007 | 0.009 |
| $\mathbf{D}$ | 9.80 | 10.00 | 0.385 | 0.393 |
| E | 3.80 | 4.00 | 0.149 | 0.157 |
| $\mathbf{e}$ | 1.27 BSC | 0.050 BSC |  |  |
| $\mathbf{H}$ | 5.80 | 6.20 | 0.228 | 0.244 |
| L | 0.50 | 0.93 | 0.020 | 0.037 |
| $\varnothing$ | $0^{\circ}$ | $8^{\circ}$ | $0^{\circ}$ | $8^{\circ}$ |
| ECN: S-03946-Rev. F, 09-Jul-01 <br> DWG: 5300 |  |  |  |  |
|  |  |  |  |  |




| Dim | MILLIMETERS |  | INCHES |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Min | Max | Min | Max |
| $\mathbf{A}$ | 3.81 | 5.08 | 0.150 | 0.200 |
| $\mathbf{A}_{\mathbf{1}}$ | 0.38 | 1.27 | 0.015 | 0.050 |
| $\mathbf{B}$ | 0.38 | 0.51 | 0.015 | 0.020 |
| $\mathbf{B}_{\mathbf{1}}$ | 0.89 | 1.65 | 0.035 | 0.065 |
| $\mathbf{C}$ | 0.20 | 0.30 | 0.008 | 0.012 |
| $\mathbf{D}$ | 18.93 | 21.33 | 0.745 | 0.840 |
| $\mathbf{E}$ | 7.62 | 8.26 | 0.300 | 0.325 |
| $\mathbf{E}_{\mathbf{1}}$ | 5.59 | 7.11 | 0.220 | 0.280 |
| $\mathbf{e}_{\mathbf{1}}$ | 2.29 | 2.79 | 0.090 | 0.110 |
| $\mathbf{e}_{\mathbf{A}}$ | 7.37 | 7.87 | 0.290 | 0.310 |
| $\mathbf{L}$ | 2.79 | 3.81 | 0.110 | 0.150 |
| $\mathbf{\mathbf { Q } _ { \mathbf { 1 } }}$ | 1.27 | 2.03 | 0.050 | 0.080 |
| $\mathbf{S}$ | 0.38 | 1.52 | .015 | 0.060 |
| ECN: S-03946-Rev. D, 09-Jul-01 |  |  |  |  |
| DWG: 5482 |  |  |  |  |

## CERDIP: 16-LEAD



| Dim | MILLIMETERS |  | INCHES |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Min | Max | Min | Max |
| A | 4.06 | 5.08 | 0.160 | 0.200 |
| $\mathrm{A}_{1}$ | 0.51 | 1.14 | 0.020 | 0.045 |
| B | 0.38 | 0.51 | 0.015 | 0.020 |
| $B_{1}$ | 1.14 | 1.65 | 0.045 | 0.065 |
| C | 0.20 | 0.30 | 0.008 | 0.012 |
| D | 19.05 | 19.56 | 0.750 | 0.770 |
| E | 7.62 | 8.26 | 0.300 | 0.325 |
| $E_{1}$ | 6.60 | 7.62 | 0.260 | 0.300 |
| $\mathbf{e}_{1}$ | 2.54 BSC |  | 0.100 BSC |  |
| $\mathrm{e}_{\text {A }}$ | 7.62 BSC |  | 0.300 BSC |  |
| L | 3.18 | 3.81 | 0.125 | 0.150 |
| $L_{1}$ | 3.81 | 5.08 | 0.150 | 0.200 |
| $Q_{1}$ | 1.27 | 2.16 | 0.050 | 0.085 |
| S | 0.38 | 1.14 | 0.015 | 0.045 |
| $\propto$ | $0^{\circ}$ | $15^{\circ}$ | $0^{\circ}$ | $15^{\circ}$ |

ECN: S-03946—Rev. G, 09-Jul-01
DWG: 5403

TSSOP: 16-LEAD


| Symbols | DIMENSIONS IN MILLIMETERS |  |  |
| :---: | :---: | :---: | :---: |
|  | Min | Nom | Max |
| A | - | 1.10 | 1.20 |
| A1 | 0.05 | 0.10 | 0.15 |
| A2 | - | 1.00 | 1.05 |
| B | 0.22 | 0.28 | 0.38 |
| C | - | 0.127 | - |
| D | 4.90 | 5.00 | 5.10 |
| E | 6.10 | 6.40 | 6.70 |
| E1 | 4.30 | 4.40 | 4.50 |
| e | - | 0.65 | - |
| L | 0.50 | 0.60 | 0.70 |
| L1 | 0.90 | 1.00 | 1.10 |
| y | - | - | 0.10 |
| 11 | $0^{\circ}$ | $3^{\circ}$ | $6^{\circ}$ |
| ECN: S-61920-Rev. D, 23-Oct-06 |  |  |  |
| DWG: 5624 |  |  |  |

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## RECOMMENDED MINIMUM PAD FOR TSSOP-16



Recommended Minimum Pads
Dimensions in inches (mm)

Vishay Siliconix

RECOMMENDED MINIMUM PADS FOR SO-16


Recommended Minimum Pads
Dimensions in Inches/(mm)

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## X-ON Electronics

Largest Supplier of Electrical and Electronic Components
Click to view similar products for Analog Switch ICs category:
Click to view products by Vishay manufacturer:
Other Similar products are found below :
DG9233EDY-GE3 NLAS4684FCTCG NLAS5223BLMNR2G NLV74HC4066ADR2G MC74HC4067ADTG NLX2G66DMUTCG
NS5A4684SMNTAG 732480R 733995E 425541DB 425528R 099044FB FSA221UMX MAX4888ETI+T MAX4968CEXB+ MAX4760EWX+T NLAS3799BMNR2G NLAS5123MNR2G NLAS5213AMUTAG NLAS7222AMTR2G MAX14807ECB+ MAX4968ECM + NLV14066BDG LC78615E-01US-H PI5A4599BCEX PI5A3157BZUEX ADG613SRUZ-EP NLAS4717EPFCT1G PI5A3167CCEX MAX4744ELB+T MAX4802ACXZ+ DG4051EEN-T1-GE4 SLAS3158MNR2G PI5A3157BC6EX PI5A392AQE MAX4744HELB+T PI5A4157ZUEX MC74HC4067ADTR2G PI5A4158ZAEX PI5A3166TAEX MAX4901EBL+T MAX14510EEVB+T PI3A3899ZTEX MAX4996ETG+T MAX4889AETO+T MAX14508EEVB+T MAX4701ETE+T MAX4996LETG+T NLX2G66FCTAG HI1-5051-2

