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## Features

- CMOS Technology for Bus and Analog Applications
- Low ON-Resistance: $0.4 \Omega$ (+2.7V Supply)
- Wide $\mathrm{V}_{\mathrm{DD}}$ Range: +1.5 V to +3.6 V
- Low Power Consumption : $5 \mu \mathrm{~W}$
- Rail-to-Rail switching throughout Signal Range
- Fast Switching Speed: 20ns max. at 3.3 V
- High Off Isolation: -27 dB at 100 kHz
- $-41 \mathrm{~dB}(100 \mathrm{kHz})$ Crosstalk Rejection Reduces Signal Distortion
- Extended Industrial Temperature Range: $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$
- Packaging (Pb-free \& Green available):
- 6-pin Small Compact SOT23 (T)


## Applications

- Cell Phones
- PDAs
- Portable Instrumentation
- Battery Powered Communications
- Computer Peripherals


## Pin Description

| Pin Number | Name | Description |
| :--- | :--- | :--- |
| 1 | NO | Data Port (Normally Open) |
| 2 | GND | Ground |
| 3 | NC | Data Port (Normally Closed) |
| 4 | COM | Common Output/Data Port |
| 5 | VDD | Positive Power Supply |
| 6 | IN | Logic Control |

## Function Table

| Logic Input | Function |
| :--- | :--- |
| 0 | NC Connected to COM |
| 1 | NO Connected to COM |

## Description

The PI3A3159 is a, fast single-pole double-throw (SPDT) CMOS switch. It can be used as an analog switch or as a low-delay bus switch. Specified over a wide operating power supply voltage range, +1.5 V to +3.6 V , the PI 3 A 3159 has an On-Resistance of $0.4 \Omega$ at 3.0 V .
Control input, IN, tolerates input drive signals up to 3.3 V , independent of supply voltage.
PI3A3159 is a lower voltage and On-Resistance replacement for the PI5A3159.

## Connection Diagram


Absolute Maximum Ratings
Voltages Referenced to GND
$V_{D D}$ $\qquad$
$\mathrm{V}_{\mathrm{IN}}, \mathrm{V}_{\mathrm{COM}}, \mathrm{V}_{\mathrm{NC}}, \mathrm{V}_{\mathrm{NO}}$ (Note 1) $\qquad$ -0.5 V to $\mathrm{V}_{\mathrm{DD}}+0.3 \mathrm{~V}$ or 30 mA , whichever occurs first
Current (any terminal). $\qquad$ $\pm 200 \mathrm{~mA}$
Peak Current, COM, NO, NC
(Pulsed at $1 \mathrm{~ms}, 10 \%$ duty cycle) $\qquad$ $\pm 400 \mathrm{~mA}$

## Thermal Information

Continuous Power Dissipation
SOT23-6 (derate $7.1 \mathrm{~mW} /{ }^{\circ} \mathrm{C}$ above $+70^{\circ} \mathrm{C}$ ) $\qquad$ 0.5 W

Storage Temperature $\qquad$ $-65^{\circ} \mathrm{C}$ to $+150^{\circ} \mathrm{C}$

Lead Temperature (soldering, 10s) $\qquad$ $+300^{\circ} \mathrm{C}$

## Note:

1. Signals on NC, NO, COM, or IN exceeding $\mathrm{V}_{\mathrm{DD}}$ or GND are clamped by internal diodes. Limit forward diode current to 30 mA .

Caution: Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions beyond those indicated in the operational sections of this specification is not implied.

## Electrical Specifications - Single +3.3V Supply

$\left(\mathrm{V}_{\mathrm{DD}}=+3.3 \mathrm{~V} \pm 10 \%, \mathrm{GND}=0 \mathrm{~V}, \mathrm{~V}_{\mathrm{IH}}=1.4 \mathrm{~V}, \mathrm{~V}_{\mathrm{IL}}=0.5 \mathrm{~V}\right)$

| Parameter | Symbol | Conditions | Package | Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Min. ${ }^{(1)}$ | Typ. ${ }^{(2)}$ | Max. ${ }^{(1)}$ | Units |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analog Switch |  |  |  |  |  |  |  |  |
| Analog Signal Range (3) | VANALOG |  |  | Full | 0 |  | $\mathrm{V}_{\mathrm{DD}}$ | V |
| On Resistance | $\mathrm{R}_{\mathrm{ON}}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{DD}}=2.7 \mathrm{~V}, \\ & \mathrm{I}_{\mathrm{COM}}=100 \mathrm{~mA}, \\ & \mathrm{~V}_{\mathrm{NO}} \text { or } \mathrm{V}_{\mathrm{NC}}=+1.5 \mathrm{~V} \end{aligned}$ |  | 25 |  |  | 0.4 | $\Omega$ |
|  |  |  | SOT23 | Full |  |  | 0.5 |  |
|  |  |  | TDFN |  |  |  | 0.6 |  |
| On-Resistance Match Between Channels ${ }^{(4)}$ | $\Delta \mathrm{R}_{\mathrm{ON}}$ |  |  | 25 |  |  | 0.08 |  |
|  |  |  |  | Full |  |  | 0.09 |  |
| On-Resistance Flatness ${ }^{(5)}$ | $\mathrm{R}_{\text {FLAT(ON) }}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{DD}}=2.7 \mathrm{~V}, \\ & \mathrm{I}_{\mathrm{COM}}=100 \mathrm{~mA}, \\ & \mathrm{~V}_{\mathrm{NO}} \text { or } \mathrm{V}_{\mathrm{NC}}=0.8 \mathrm{~V}, 2.0 \mathrm{~V} \end{aligned}$ |  | 25 |  |  | 0.1 |  |
|  |  |  |  | Full |  |  | 0.1 |  |
| NO or NC Off Leakage Current ${ }^{(6)}$ | $\mathrm{I}_{\mathrm{NO} \text { (OFF) }}$ or $\mathrm{I}_{\mathrm{NC}(\mathrm{OFF})}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{DD}}=3.3 \mathrm{~V}, \mathrm{~V}_{\mathrm{COM}}=0 \mathrm{~V} \\ & \mathrm{~V}_{\mathrm{NO}} \text { or } \mathrm{V}_{\mathrm{NC}}=+2.0 \mathrm{~V} \end{aligned}$ |  | 25 | -1 |  | 1 | nA |
|  |  |  |  | Full | -10 |  | 10 |  |
| COM On Leakage Current ${ }^{(6)}$ | $\mathrm{I}_{\text {COM }}(\mathrm{ON})$ | $\begin{aligned} & \mathrm{V}_{\mathrm{DD}}=3.3 \mathrm{~V}, \mathrm{~V}_{\mathrm{COM}}=+2.0 \mathrm{~V} \\ & \mathrm{~V}_{\mathrm{NO}} \text { or } \mathrm{V}_{\mathrm{NC}}=+2.0 \mathrm{~V} \end{aligned}$ |  | 25 | -2 |  | 2 |  |
|  |  |  |  | Full | -20 |  | 20 |  |

## Notes:

1. The algebraic convention, where most negative value is a minimum and most positive is a maximum, is used in this data sheet.
2. Typical values are for DESIGN AID ONLY, not guaranteed or subject to production testing.
3. Guaranteed by design.
4. $\Delta \mathrm{R}_{\mathrm{ON}}=\mathrm{R}_{\mathrm{ON}}$ max. $-\mathrm{R}_{\mathrm{ON}} \min$.
5. Flatness is defined as the difference between the maximum and minimum value of On-Resistance measured.
6. Leakage parameters are $100 \%$ tested at maximum rated hot temperature and guaranteed by correlation at $+25^{\circ} \mathrm{C}$.

Electrical Specifications - Single +3.3V Supply (continued)
$\left(\mathrm{V}_{\mathrm{DD}}=+3.3 \mathrm{~V} \pm 10 \%, \mathrm{GND}=0 \mathrm{~V}, \mathrm{~V}_{\mathrm{IH}}=1.4 \mathrm{~V}, \mathrm{~V}_{\mathrm{IL}}=0.5 \mathrm{~V}\right)$

| Parameter | Symbol | Conditions | Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Min. ${ }^{(\mathbf{1})}$ | Typ. ${ }^{(\mathbf{2})}$ | Max. ${ }^{(\mathbf{1})}$ | Units |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Logic Input |  |  |  |  |  |  |  |
| Input High Voltage | $\mathrm{V}_{\mathrm{IH}}$ | Guaranteed Logic High Level | Full | 1.4 |  |  |  |
| Input Low Voltage | $\mathrm{V}_{\mathrm{IL}}$ | Guaranteed Logic LowLevel |  |  |  | 0.5 |  |
| Input Current with Volt- <br> age High | $\mathrm{I}_{\mathrm{INH}}$ | $\mathrm{V}_{\mathrm{IN}}=1.4 \mathrm{~V}$, all others $=0.5 \mathrm{~V}$ |  | -1 |  | 1 | V |
| Input Current with Volt- <br> age Low | $\mathrm{I}_{\mathrm{INL}}$ | $\mathrm{V}_{\mathrm{IN}}=0.5 \mathrm{~V}$, all others $=1.4 \mathrm{~V}$ |  | -1 |  | 1 | $\mu \mathrm{~A}$ |

## Dynamic

| Turn-On-Time | ton | $\mathrm{V}_{\mathrm{DD}}=3.3 \mathrm{~V}, \mathrm{~V}_{\mathrm{NO}}$ or $\mathrm{V}_{\mathrm{NC}}=2.0 \mathrm{~V}$, Figure 1 | 25 |  | 20 | ns |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Full |  | 20 |  |
| Turn-Off-Time | toff |  | 25 |  | 10 |  |
|  |  |  | Full |  | 15 |  |
| Charge Injection ${ }^{(3)}$ | Q | $\begin{aligned} & \mathrm{C}_{\mathrm{L}}=1 \mathrm{nF}, \mathrm{~V}_{\mathrm{GEN}}=0 \mathrm{~V}, \\ & \mathrm{R}_{\mathrm{GEN}}=0 \Omega, \text { Figure } 2 \end{aligned}$ | 25 | 40 |  | pC |
| Off Isolation ${ }^{(4)}$ | OIRR | $\mathrm{R}_{\mathrm{L}}=50 \Omega, \mathrm{f}=100 \mathrm{KHz}$, Figure 3 |  | -27 |  | dB |
| CrossTalk ${ }^{(5)}$ | $\mathrm{X}_{\text {TALK }}$ | $\mathrm{R}_{\mathrm{L}}=50 \Omega \mathrm{f}=100 \mathrm{KHz}$, Figure 4 |  | -41 |  |  |
| NC or NO Capacitance | $\mathrm{C}_{\mathrm{NC} / \mathrm{NO}}$ (OFF) | $\mathrm{f}=1 \mathrm{MHz}$, Figure 5 |  | 90 |  | pF |
| COM Off Capacitance | $\mathrm{C}_{\text {COM }}$ (OFF) |  |  | 90 |  |  |
| COM On Capacitance | $\mathrm{C}_{\text {COM(ON) }}$ | $\mathrm{f}=1 \mathrm{MHz}$, Figure 6 |  | 240 |  |  |

## Supply

| Power-Supply Range | $\mathrm{V}_{\text {DD }}$ |  | Full | 1.5 | 3.6 | V |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Positive Supply Current | $\mathrm{I}_{\mathrm{CC}}$ | $\mathrm{V}_{\mathrm{DD}}=3.6 \mathrm{~V}, \mathrm{~V}_{\text {IN }}=0 \mathrm{~V}$ or $\mathrm{V}_{\mathrm{DD}}$ |  |  | 100 | nA |

Notes:

1. The algebraic convention, where most negative value is a minimum and most positive is a maximum, is used in this data sheet.
2. Typical values are for DESIGN AID ONLY, not guaranteed or subject to production testing.
3. Guaranteed by design.
4. Off Isolation $=20 \log _{10}\left[\mathrm{~V}_{\mathrm{COM}} /\left(\mathrm{V}_{\mathrm{NO}}\right.\right.$ or $\left.\left.\mathrm{V}_{\mathrm{NC}}\right)\right]$. See Figure 3.
5. Between any two switches. See Figure 4.

Electrical Specifications - Single +2.5V Supply ( $\mathrm{V}_{\mathrm{DD}}=+2.5 \mathrm{~V} \pm 10 \%$, $\mathrm{GND}=0 \mathrm{~V}, \mathrm{~V}_{\mathrm{IH}}=1.4 \mathrm{~V}, \mathrm{~V}_{\mathrm{IL}}=0.5 \mathrm{~V}$ )

| Parameter | Symbol | Conditions | Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Min. ${ }^{(1)}$ | Typ. ${ }^{(2)}$ | Max. ${ }^{(1)}$ | Units |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analog Switch |  |  |  |  |  |  |  |
| Analog Signal Range ${ }^{(3)}$ | VANALOG |  |  | 0 |  | $\mathrm{V}_{\mathrm{DD}}$ | V |
| On-Resistance | $\mathrm{R}_{\mathrm{ON}}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{DD}}=2.5 \mathrm{~V}, \mathrm{I}_{\mathrm{COM}}=-8 \mathrm{~mA}, \\ & \mathrm{~V}_{\mathrm{NO}} \text { or } \mathrm{V}_{\mathrm{NC}}=1.8 \mathrm{~V} \end{aligned}$ | 25 |  |  | 0.5 | $\Omega$ |
|  |  |  | Full |  |  | 0.55 |  |
| On-Resistance Match Between Channels ${ }^{(4)}$ | $\Delta \mathrm{R}_{\mathrm{ON}}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{DD}}=2.5 \mathrm{~V}, \mathrm{I}_{\mathrm{COM}}=-8 \mathrm{~mA}, \\ & \mathrm{~V}_{\mathrm{NO}} \text { or } \mathrm{V}_{\mathrm{NC}}=0.8 \mathrm{~V}, 1.8 \mathrm{~V} \end{aligned}$ | 25 |  |  | 0.09 |  |
|  |  |  | Full |  |  | 0.09 |  |
| On-Resistance Flatness ${ }^{(5)}$ | $\mathrm{R}_{\text {FLAT(ON) }}$ |  | 25 |  |  | 0.02 |  |
|  |  |  | Full |  |  | 0.02 |  |
| Dynamic |  |  |  |  |  |  |  |
| Turn-On-Time | ton | $\mathrm{V}_{\mathrm{DD}}=2.5 \mathrm{~V}, \mathrm{~V}_{\mathrm{NO}}$ or $\mathrm{V}_{\mathrm{NC}}=1.8 \mathrm{~V}$, Figure 1 | 25 |  |  | 30 | ns |
|  |  |  | Full |  |  | 30 |  |
| Turn-Off-Time | toff |  | 25 |  |  | 15 |  |
|  |  |  | Full |  |  | 15 |  |
| Charge Injection ${ }^{(3)}$ | Q | $\begin{aligned} & \mathrm{C}_{\mathrm{L}}=1 \mathrm{nF}, \mathrm{~V}_{\mathrm{GEN}}=0 \mathrm{~V}, \\ & \mathrm{R}_{\mathrm{GEN}}=0 \Omega \text {, Figure } 2 \\ & \hline \end{aligned}$ | 25 |  | 40 |  | pC |
| Logic Input |  |  |  |  |  |  |  |
| Input High Voltage | $\mathrm{V}_{\text {IH }}$ | Guaranteed Logic High Level | Full | 1.4 |  |  | V |
| Input Low Voltage | $\mathrm{V}_{\text {IL }}$ | Guaranteed Logic LowLevel | Full |  |  | 0.5 |  |
| Input High Current | $\mathrm{I}_{\text {INH }}$ | $\mathrm{V}_{\text {IN }}=1.4 \mathrm{~V}$, all others $=0.5 \mathrm{~V}$ | Full | -1 |  | 1 | $\mu \mathrm{A}$ |
| Input Low Current | $\mathrm{I}_{\text {INL }}$ | $\mathrm{V}_{\text {IN }}=0.5 \mathrm{~V}$, all others $=1.4 \mathrm{~V}$ | Full | -1 |  | 1 |  |

## Notes:

1. The algebraic convention, where most negative value is a minimum and most positive is a maximum, is used in this data sheet.
2. Typical values are for DESIGN AID ONLY, not guaranteed or subject to production testing.
3. Guaranteed by design.
4. $\Delta \mathrm{R}_{\mathrm{ON}}=\mathrm{R}_{\mathrm{ON}}$ max. $-\mathrm{R}_{\mathrm{ON}} \min$.
5. Flatness is defined as the difference between the maximum and minimum value of On-Resistance measured.

Electrical Specifications - Single $\mathbf{+ 1 . 8 V}$ Supply
$\left(\mathrm{V}_{\mathrm{DD}}=+1.8 \mathrm{~V} \pm 10 \%, \mathrm{GND}=0 \mathrm{~V}, \mathrm{~V}_{\mathrm{IH}}=1.4 \mathrm{~V}, \mathrm{~V}_{\mathrm{IL}}=0.5 \mathrm{~V}\right)$

| Parameter | Symbol | Conditions | Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Min. ${ }^{(1)}$ | Typ. ${ }^{(2)}$ | Max. ${ }^{(1)}$ | Units |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analog Switch |  |  |  |  |  |  |  |
| Analog Signal Range ${ }^{(3)}$ | VANALOG |  |  | 0 |  | $\mathrm{V}_{\mathrm{DD}}$ | V |
| On-Resistance | $\mathrm{R}_{\mathrm{ON}}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{DD}}=1.8 \mathrm{~V}, \mathrm{I}_{\mathrm{COM}}=-4 \mathrm{~mA}, \\ & \mathrm{~V}_{\mathrm{NO}} \text { or } \mathrm{V}_{\mathrm{NC}}=1.5 \mathrm{~V} \end{aligned}$ | 25 |  |  | 0.6 | $\Omega$ |
|  |  |  | Full |  |  | 0.6 |  |
| On-Resistance Match Between Channels ${ }^{(4)}$ | $\Delta \mathrm{R}_{\mathrm{ON}}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{DD}}=1.8 \mathrm{~V}, \mathrm{I}_{\mathrm{COM}}=-4 \mathrm{~mA}, \\ & \mathrm{~V}_{\mathrm{NO}} \text { or } \mathrm{V}_{\mathrm{NC}}=0.8 \mathrm{~V}, 1.5 \mathrm{~V} \end{aligned}$ | 25 |  |  | 0.07 |  |
|  |  |  | Full |  |  | 0.09 |  |
| On-Resistance <br> Flatness ${ }^{(5)}$ | $\mathrm{R}_{\text {FLAT(ON) }}$ |  | 25 |  |  | 0.8 |  |
|  |  |  | Full |  |  | 0.8 |  |
| Dynamic |  |  |  |  |  |  |  |
| Turn-On-Time | ton | $\mathrm{V}_{\mathrm{DD}}=1.8 \mathrm{~V}, \mathrm{~V}_{\mathrm{NO}}$ or $\mathrm{V}_{\mathrm{NC}}=1.5 \mathrm{~V}$, Figure 1 | 25 |  |  | 50 | ns |
|  |  |  | Full |  |  | 50 |  |
| Turn-Off-Time | toff |  | 25 |  |  | 25 |  |
|  |  |  | Full |  |  | 25 |  |
| Charge Injection ${ }^{(3)}$ | Q | $\begin{aligned} & \mathrm{C}_{\mathrm{L}}=1 \mathrm{nF}, \mathrm{~V}_{\mathrm{GEN}}=0 \mathrm{~V}, \\ & \mathrm{R}_{\mathrm{GEN}}=0 \Omega, \text { Figure } 2 \end{aligned}$ | 25 |  | 36 |  | pC |
| Logic Input |  |  |  |  |  |  |  |
| Input High Voltage | $\mathrm{V}_{\text {IH }}$ | Guaranteed Logic High Level | Full | 1.4 |  |  | V |
| Input Low Voltage | $\mathrm{V}_{\text {IL }}$ | Guaranteed Logic LowLevel | Full |  |  | 0.5 |  |
| Input High Current | $\mathrm{I}_{\text {INH }}$ | $\mathrm{V}_{\text {IN }}=1.4 \mathrm{~V}$, all others $=0.5 \mathrm{~V}$ | Full | -1 |  | 1 | $\mu \mathrm{A}$ |
| Input Low Current | $\mathrm{I}_{\text {INL }}$ | $\mathrm{V}_{\text {IN }}=0.5 \mathrm{~V}$, all others $=1.4 \mathrm{~V}$ | Full | -1 |  | 1 |  |

## Notes:

1. The algebraic convention, where most negative value is a minimum and most positive is a maximum, is used in this data sheet.
2. Typical values are for DESIGN AID ONLY, not guaranteed or subject to production testing.
3. Guaranteed by design.
4. $\Delta \mathrm{R}_{\mathrm{ON}}=\mathrm{R}_{\mathrm{ON}} \max .-\mathrm{R}_{\mathrm{ON}} \min$.
5. Flatness is defined as the difference between the maximum and minimum value of On-Resistance measured.

## Test Circuits/Timing Diagrams


$C_{L}$ INCLUDES FIXTURE AND STRAY CAPACITANCE $\mathrm{V}_{\mathrm{OUT}}=\mathrm{V}_{\mathrm{NO}}\left(\frac{\mathrm{R}_{\mathrm{L}}}{\mathrm{R}_{\mathrm{L}}+\mathrm{R}_{\mathrm{ON}}}\right)$


LOGIC INPUT WAVEFORMS INVERTED FOR SWITCHES THAT HAVE OPPOSITE LOGIC

* 1.5V FOR 3.3V SUPPLY

Figure 1. Switching Time


Figure 2. Charge Injection


Figure 3. Off Isolation

Test Circuits/Timing Diagrams (continued)


Figure 5. Channel-Off Capacitance


Figure 6. Channel-On Capacitance

## Packaging Mechanical: 6-Pin SOT23 (T)

1. ALL DIMENSIONS IN MILLIMETERS. ANGLES IN DEGREES.
2. DIMENSIONS EXCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.


| SYMBOLS | MIN. | NOM. | MAX. |
| :---: | :---: | :---: | :---: |
| A | - | - | 1.45 |
| A1 | 0.00 | - | 0.15 |
| A2 | 0.90 | 1.15 | 1.30 |
| b | 0.35 | -- | 0.50 |
| c | 0.08 | -- | 0.22 |
| D | 2.80 | 2.90 | 3.00 |
| E | 2.60 | 2.80 | 3.00 |
| E1 | 1.50 | 1.60 | 1.75 |
| L | 0.30 | 0.45 | 0.60 |
| L1 | 0.60 REF |  |  |
| R | 0.10 | -- | -- |
| R1 | 0.10 | -- | 0.25 |
| $\theta$ | 0 | 4 | 8. |
| e | 0.95 BSC |  |  |
| e1 | 1.90 BSC |  |  |

3. REFER EIAJ SC74A AND JEDEC MO-178.

| (1) PERICOM ${ }^{\circ}$ <br> Enabling Serial Connectivity | DATE: 10/19/09 |
| :---: | :---: |
| DESCRIPTION: 6-pin, Small Outline Transistor Plastic Package (SOT23) |  |
| PACKAGE CODE: T (T6) |  |
| DOCUMENT CONTROL \#: PD-1912 | REVISION: C |

09-0131
Note:

- For latest package info, please check: http://www.pericom.com/products/packaging/mechanicals.php


## Ordering Information

| Ordering Code | Package Code | Package Description | Top Mark |
| :---: | :---: | :---: | :---: |
| PI3A3159TEX | T | Pb-free \& Green, 6-pin, SOT23 | ZG |

## Notes:

Thermal characteristics can be found on the company web site at http://www.pericom.com/packaging/
X = Tape/Reel

