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Fairchild Semiconductor PF5102

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PF5102 N-Channel Switch

Features

- This device is designed for low level analog switching, sample and hold circuits and chopper stabilized amplifiers.
- Sourced from process 51.
- See J111 for characteristics.



Absolute Maximum Ratings* T_a = 25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|-----------------------------------|--|-------------|-------|
| V _{DG} | Drain-Gate Voltage | 40 | V |
| V _{GS} | Gate-Source Voltage | -40 | V |
| I _{GF} | Forward Gate Current | 50 | mA |
| T _J , T _{STG} | Operating and Storage Junction Temperature Range | -55 to +150 | °C |

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired. **NOTES**:

- 1. These ratings are based on a maximum junction temperature of 150 degrees C.
- 2. These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Thermal Characteristics $T_a = 25^{\circ}C$ unless otherwise noted

| Symbol | Parameter | Max. | Units |
|-----------------------|---|------|-------|
| PD | Total Device Dissipation | 625 | mW |
| | Derate above 25°C | 5.0 | mW/°C |
| R _{0JC} | Thermal Resistance, Junction to Case | 125 | °C/W |
| $R_{	extsf{	heta}JA}$ | Thermal Resistance, Junction to Ambient | 357 | °C/W |

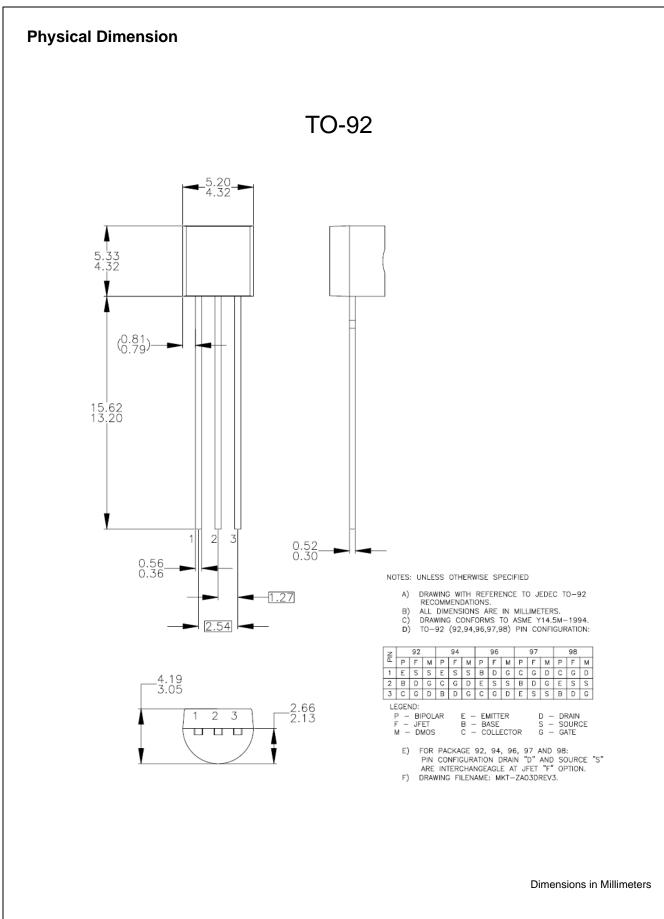
Electrical Characteristics T_a = 25°C unless otherwise noted

| Parameter | Test Condition | Min. | Max. | Units |
|-----------------------------------|---|---|---|--|
| istics | · · · · · · · · · · · · · · · · · · · | | | |
| Gate-Source Breakdown Voltage | $I_{G} = -1.0 \mu A, V_{DS} = 0$ | -40 | | V |
| Gate Reverse Current | V _{GS} = -15V, V _{DS} = 0 | | -1.0 | nA |
| | $V_{GS} = -15V, V_{DS} = 0, T_A = 125^{\circ}C$ | | -0.2 | μΑ |
| Gate-Source Cutoff Voltage | $V_{DS} = 15V, I_{D} = 1.0nA$ | -0.7 | -1.6 | V |
| Gate-Source Forward Voltage | I _G = 1.0mA, V _{DS} = 0 | | 1.0 | V |
| istics | | | | |
| Zero-Gate Voltage Drain Current * | $V_{DS} = 15V, V_{GS} = 0$ | 4.0 | 20 | mA |
| Characteristics | | | | |
| Forward Transfer Conductance | V _{DS} = 15V, V _{GS} = 0, f = 1.0KHz | 11,000 | | μmhous |
| Output Conductance | $V_{DS} = 15V$, $I_{D} = 500\mu$ A, f = 1.0KHz | | 25 | μmhous |
| Input Capacitance | $V_{DG} = 15V, V_{GS} = 0, f = 1.0MHz$ | | 16 | pF |
| Reverse Transfer Capacitance | $V_{DG} = 15V, V_{GS} = 0, f = 1.0MHz$ | | 6 | pF |
| | istics Gate-Source Breakdown Voltage Gate Reverse Current Gate-Source Cutoff Voltage Gate-Source Forward Voltage istics Zero-Gate Voltage Drain Current * Characteristics Forward Transfer Conductance Output Conductance Input Capacitance | $\begin{tabular}{ c c c c c } \hline $istics$ & $I_G = -1.0 \mu A, V_{DS} = 0$ \\ \hline $Gate-Source Breakdown Voltage$ & $I_G = -1.0 \mu A, V_{DS} = 0$ \\ \hline $V_{GS} = -15V, V_{DS} = 0, T_A = 125^\circ C$ \\ \hline $Gate-Source Cutoff Voltage$ & $V_{DS} = 15V, I_D = 1.0 n A$ \\ \hline $Gate-Source Forward Voltage$ & $I_G = 1.0 m A, V_{DS} = 0$ \\ \hline $istics$ & $Zero-Gate Voltage Drain Current * V_{DS} = 15V, V_{GS} = 0$ \\ \hline $Characteristics$ & $Forward Transfer Conductance$ & $V_{DS} = 15V, V_{GS} = 0, f = 1.0 KHz$ \\ \hline $Output Conductance$ & $V_{DS} = 15V, V_{GS} = 0, f = 1.0 KHz$ \\ \hline $Input Capacitance$ & $V_{DG} = 15V, V_{GS} = 0, f = 1.0 MHz$ \\ \hline $V_{DG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{DG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{DG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{CG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{CG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{CG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{CG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{CG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{CG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{CG} = 15V, V_{CG} = 0, f = 1.0 MHz$ \\ \hline $V_{CG} = 1.$ | isticsGate-Source Breakdown Voltage $I_G = -1.0\mu A, V_{DS} = 0$ -40Gate Reverse Current $V_{GS} = -15V, V_{DS} = 0$ $V_{GS} = -15V, V_{DS} = 0$ Gate-Source Cutoff Voltage $V_{DS} = 15V, I_D = 1.0nA$ -0.7Gate-Source Forward Voltage $I_G = 1.0mA, V_{DS} = 0$ -0.7isticsZero-Gate Voltage Drain Current * $V_{DS} = 15V, V_{GS} = 0$ 4.0CharacteristicsForward Transfer Conductance $V_{DS} = 15V, V_{GS} = 0, f = 1.0KHz$ 11,000Output Conductance $V_{DS} = 15V, V_{GS} = 0, f = 1.0KHz$ 11,000Input Capacitance $V_{DG} = 15V, V_{GS} = 0, f = 1.0MHz$ 11,000 | isticsImage: constraint of the second s |

* Pulse Test: Pulse Width \leq 300µs, Duty Cycle \leq 1.0%

December 2011





PF5102 — N-Channel Switch



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