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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

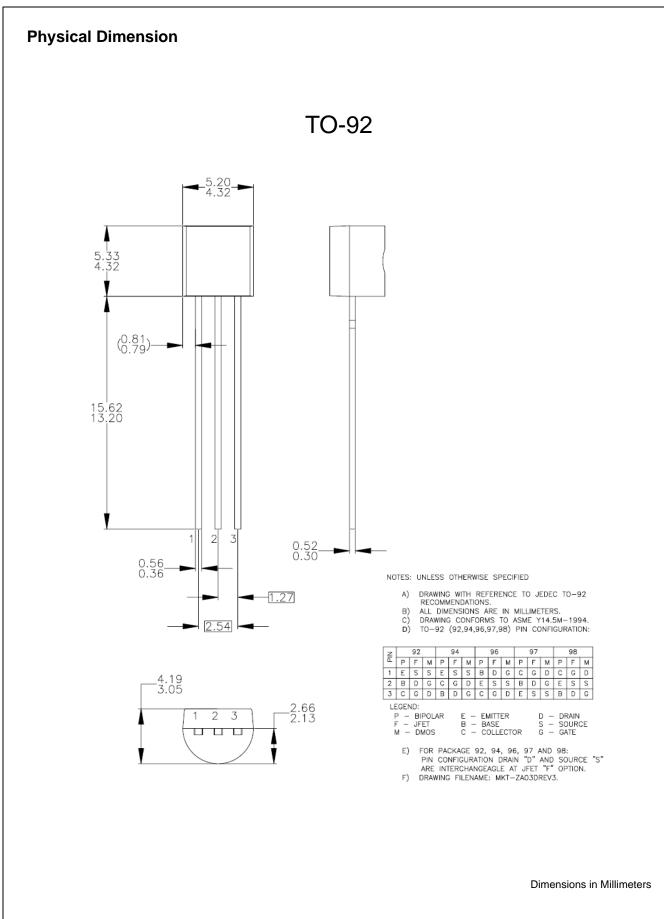
Electrical Characteristics T_a = 25°C unless otherwise noted

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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Datasheet Identification	Product Status	Definition
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