

2N2608 2N2609

CASE 22-03, STYLE 12
TO-18 (TO-206AA)

JFET
GENERAL PURPOSE

P-CHANNEL — DEPLETION

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	30	Vdc
Drain-Gate Voltage	V_{DG}	30	Vdc
Gate-Source Voltage	V_{GS}	30	Vdc
Gate Current	I_G	50	mA
Total Device Dissipation @ $T_A = 25^\circ\text{C}$ Derate above 25°C	P_D	300 2.0	mW mW/°C
Storage Temperature Range	T_{stg}	-60 to +200°C	°C

Refer to 2N5460 for graphs.

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted.)

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS				
Gate-Source Breakdown Voltage ($I_G = 1.0 \mu\text{A}$)	$V_{(BR)GSS}$	30	—	Vdc
Gate Reverse Current ($V_{GS} = 5.0 \text{ V}$)	I_{GSS}	—	10	nA
Gate Source Cutoff Voltage ($V_{DS} = -5.0 \text{ V}$, $I_D = -1.0 \mu\text{A}$)	$V_{GS(off)}$	1.0	4.0	Vdc
ON CHARACTERISTICS				
Zero-Gate-Voltage Drain Current ($V_{DS} = -5.0 \text{ V}$, $V_{GS} = 0 \text{ V}$)	I_{DSS}^*	-0.9 -2.0	-4.5 -10.0	mA
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SMALL-SIGNAL CHARACTERISTICS				
Forward Transfer Admittance ($V_{DS} = -5.0 \text{ V}$, $f = 1.0 \text{ kHz}$)	$ y_{fs} ^*$	1000 2500	— —	μmhos
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Input Capacitance ($V_{DS} = -5.0 \text{ V}$, $V_{GS} = 1.0 \text{ V}$, $f = 140 \text{ kHz}$)	C_{iss}	— —	17 30	pF
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FUNCTIONAL CHARACTERISTICS				
Noise Figure ($V_{DS} = -5.0 \text{ V}$, $f = 1.0 \text{ kHz}$, $R = 1.0 \text{ meg}$)	NF	—	3.0	dB

*Pulse Width $\leq 100 \text{ msec.}$, Duty Cycle $\leq 10\%$.