



N-Channel JFETs

RF, VHF, UHF Amplifiers

Type No.	Case Style	BV <sub>GS</sub> (V) @ I <sub>G</sub> (μA)	I <sub>GS</sub> (nA) @ V <sub>GS</sub> (V)	V <sub>P</sub> (V) @ V <sub>DS</sub> (V)	I <sub>P</sub> (nA)	I <sub>DSS</sub> (mA) @ V <sub>DS</sub> (V)	R <sub>th(j-c)</sub> (mmho) @ Freq. (MHz)	R <sub>th(j-a)</sub> (mmho) @ Freq. (MHz)	R <sub>e</sub> (V <sub>GS</sub> ) (μmho) @ f <sub>max</sub> (MHz)	C <sub>iss</sub> (pF) @ V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	C <sub>rss</sub> (pF) @ V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	NF (dB) @ R <sub>G</sub> = 1k Freq. (MHz)	Process No.	Pkg. No.
2N3819	TO-92	25	2	8	15	2	1.6	100	200	8	15	4	15	0	50	94
2N3823	TO-72	30	0.5	8	15	0.5	3.2	200	200	6	15	2	15	0	50	25
2N4223	TO-72	30	0.25	0.1	8	15	2.7	200	200	6	15	2	15	0	50	25
2N4224	TO-72	30	0.5	0.1	8	15	1.7	200	200	6	15	2	15	0	50	25
2N4416	TO-72	30	0.1	6	15	1	4	400	100	4	15	0.8	15	0	50	25
2N4416A	TO-72	35	0.1	2.5	6	15	4	400	100	4	15	0	15	0	50	25
2N5078	TO-72	30	0.25	0.5	8	15	4	200	150	6	15	2	15	0	50	25
2N5245	TO-92	30	1	1	6	15	4	400	100	4.5	15	0	15	0	90	97
2N5246	TO-92	30	1	20	0.5	4	2.5	400	100	4.5	15	0	15	0	90	97
2N5247	TO-92	30	1	20	1.5	8	4	400	150	4.5	15	0	15	0	90	97
2N5248	TO-92	30	1	8	15	10	3	200	200	6	15	0	15	0	50	94
2N5397	TO-72	25	0.1	1	6	10	5.5	450	200	5	10	1.2	10	10 mA	90	29
2N5398	TO-72	25	0.1	1	6	10	5.0	450	400	5.5	10	0	1.3	10	90	29
2N5484	TO-92	25	1	20	0.3	3	2.5	100	75	5	15	0	1	15	50	92
2N5485	TO-92	25	1	20	1	4	3	400	100	5	15	0	1	15	50	92
2N5486	TO-92	25	1	20	2	6	3.5	400	100	5	15	0	1	15	50	92
2N5488	TO-92	25	10	2	15	0.2	1	100	50	7	15	0	3	15	50	92
2N5469	TO-92	25	10	1	6	15	1.6	100	100	7	15	0	3	15	50	92
2N5470	TO-92	25	10	2	15	2	2.5	100	150	7	15	0	3	15	50	92
2N5949	TO-92	30	1	3	7	15	3.0	100	75	6	15	0	2	15	50	97
2N5950	TO-92	30	1	2.5	6	15	3.0	100	75	6	15	0	2	15	50	97
2N5951	TO-92	30	1	2	5	15	3.0	100	75	6	15	0	2	15	50	97
2N5952	TO-92	30	1	1.3	3.5	15	1.0	100	75	6	15	0	2	15	50	97
2N5953	TO-92	30	1	0.8	3	15	1.0	100	50	6	15	0	2	15	50	97
J300	TO-92	25	0.5	1	6	10	4.5	0.001	200	5.5	10	1.7	10	5 mA	90	92
J304	TO-92	30	0.1	2	6	15	14.2	400	180	7.5	0	2.5	0	-10	50	92
J305	TO-92	30	0.1	0.5	3	15	13.0	400	180	7.5	0	2.5	0	-10	50	92
J308	TO-92	25	1	1	6.5	10	8	0.001	200	7.5	0	2.5	0	-10	92	92
J309	TO-92	25	1	1	4.0	10	10	0.001	200	7.5	0	2.5	0	-10	92	92
J310	TO-92	25	1	1	2	6.5	8	0.001	200	7.5	0	2.5	0	-10	92	92

T-39-01

t = typical value

JFET Transistors

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JFET Transistors

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RF, VHF, UHF Amplifiers (Continued)

Type No.	Case Style	BV <sub>GSS</sub> (V) @ I <sub>G</sub> Min	BV <sub>GSS</sub> (V) @ I <sub>G</sub> Max	I <sub>GSS</sub> (mA) @ V <sub>GS</sub> Max	V <sub>P</sub> (V) @ V <sub>DS</sub> Min	I <sub>D</sub> (mA) Max	I <sub>D</sub> (mA) Min	I <sub>DSS</sub> (mA) @ V <sub>DS</sub> Max	R <sub>th(j-c)</sub> (mmho) @ Freq. Min	R <sub>th(j-c)</sub> (mmho) @ f Max	C <sub>iss</sub> (pF) @ I <sub>DSS</sub> Max	V <sub>GS</sub> (V)	C <sub>iss</sub> (pF) @ I <sub>DSS</sub> Max	V <sub>GS</sub> (V)	C <sub>iss</sub> (pF) @ V <sub>DS</sub> Max	V <sub>GS</sub> (V)	NF (dB) @ R <sub>G</sub> = 1k Freq. (MHz) Max	Process No.	Pkg. No.
MPF102	TO-92	25	1	2	15	8	15	2	1.6	100	7	15	0	3	15	0	4.0	50	92
MPF106	TO-92	25	1	1	20	0.5	4	10	2.5	0.001	5	15	0	2	15	0	4	50	92
MPF107	TO-92	25	1	1	20	2	6	15	4	0.001	5	15	0	1.2	15	0	4	50	92
MPF108	TO-92	25	10	1	15	0.5	8	15	1.6	100	6.5	15	0	2.5	15	0	3	50	92
MPF256	TO-92	25	10	5	15	0.5	7.5	15	6	0.001	6.5	15	0	2.5	15	0	2.0	90	92
MPF820	TO-92	25	10	5	15	5.0	15	200	10	0.001	6	15	0	2	15	0	5	51	92
PN4223	TO-92	30	1	0.25	20	0.1	8	15	2.7	200	6	15	0	2	15	0	5	50	92
PN4224	TO-92	30	1	0.5	20	0.1	8	15	1.7	200	6	15	0	2	15	0	5	50	92
PN4416	TO-92	30	1	0.1	20	6	15	1	4	400	4	15	0	0.8	15	0	4	50	92
U308	TO-52	25	1	0.15	15	1	6	10	10	0.001	5	0	10 mA	2.5	0	10 mA		92	07
U309	TO-52	25	1	0.15	15	1	4	10	10	0.001	5	0	10 mA	2.5	0	10 mA		92	07
U310	TO-52	25	1	0.15	15	2.5	6	10	10	0.001	5	10	10 mA	2.5	10	10 mA		92	07
U312	TO-52	25	1	0.1	15	1	6	10	6	0.001	3.8	10	10 mA	1.2	10	10 mA		90	07

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