



N-Channel JFETs

RF, VHF, UHF Amplifiers

Type No.	Case Style	BV _{GSS} (V) @ I _G (μA)	I _{GSS} (nA) @ V _{DG} (V)	V _P (V) @ V _{DG} (V)	I _P (nA)	I _{DSS} (mA) @ V _{DG} (V)	R _{th(j-c)} (mmho) @ Freq. (MHz)	R _{th(j-a)} (mmho) @ Freq. (MHz)	R _{th(j-c)} (μmho) @ f (MHz)	C _{iss} (pF) @ V _{DG} (V)	V _{GS} (V)	C _{rss} (pF) @ V _{DG} (V)	V _{GS} (V)	NF (dB) @ R _G = 1k Freq. (MHz)	Process No.	Pkg. No.		
2N3819	TO-92	25	1	8	15	2	15	1.6	100	8	15	0	4	15	0	50	94	
2N3823	TO-72	30	1	8	15	0.5	20	3.2	200	6	15	0	2	15	0	50	25	
2N4223	TO-72	30	10	0.1	8	15	0.25	2.7	200	6	15	0	2	15	0	50	25	
2N4224	TO-72	30	10	0.1	8	15	0.5	1.7	200	6	15	0	2	15	0	50	25	
2N4416	TO-72	30	1	6	15	1	20	4	400	4	15	0	0.8	15	0	50	25	
2N4416A	TO-72	35	1	2.5	6	15	1	4	400	4	15	0	0.8	15	0	50	25	
2N5078	TO-72	30	1	0.5	8	15	0.25	4	200	6	15	0	2	15	0	50	25	
2N5245	TO-92	30	1	1	6	15	10	4	400	100	400	4.5	15	0	90	97		
2N5246	TO-92	30	1	1	20	0.5	4	15	10	1.5	7	15	0	1	15	0	90	97
2N5247	TO-92	30	1	1	20	1.5	8	15	10	8	24	15	0	1	15	0	90	97
2N5248	TO-92	30	1	5	20	1	20	3	200	6	15	0	2	15	0	50	94	
2N5397	TO-72	25	1	1	6	10	1	5.5	450	5	10	10	10	10	10	90	29	
2N5398	TO-72	25	1	1	6	10	1	5.0	450	5.5	10	0	1.3	10	0	90	29	
2N5484	TO-92	25	1	20	0.3	3	15	2.5	100	5	15	0	1	15	0	50	92	
2N5485	TO-92	25	1	1	20	1	20	3	400	5	15	0	1	15	0	50	92	
2N5486	TO-92	25	1	2	6	15	10	3.5	400	5	15	0	1	15	0	50	92	
2N5488	TO-92	25	10	2	15	0.2	4	14	10	1	5	15	3	15	0	50	92	
2N5469	TO-92	25	10	1	6	15	10	1.6	100	7	15	0	3	15	0	50	92	
2N5470	TO-92	25	10	2	15	2	8	15	10	7	15	0	3	15	0	50	92	
2N5949	TO-92	30	1	3	7	15	100	2.5	100	7	15	0	3	15	0	50	92	
2N5950	TO-92	30	1	1	15	3	15	3.0	100	6	15	0	2	15	0	50	97	
2N5951	TO-92	30	1	2.5	6	15	100	3.0	100	6	15	0	2	15	0	50	97	
2N5952	TO-92	30	1	2	5	15	100	3.0	100	6	15	0	2	15	0	50	97	
2N5953	TO-92	30	1	1.3	3.5	15	100	1.0	100	75	100	0	2	15	0	50	97	
J300	TO-92	25	1	0.8	3	15	100	1.0	100	50	100	0	2	15	0	50	97	
J304	TO-92	30	1	0.5	15	1	6	4.5	0.001	5.5	10	5	1.7	10	5	90	92	
J305	TO-92	30	1	2	6	15	1	14.2	400	180	100				50	92		
J308	TO-92	25	1	0.5	3	15	1	13.0	400	180	100				50	92		
J309	TO-92	25	1	1	15	1	6.5	10	0.001	200	0.001	2.5	0	-10	92	92		
J310	TO-92	25	1	1	15	1	4.0	10	0.001	200	0.001	2.5	0	-10	92	92		
J311	TO-92	25	1	2	6.5	10	1	8	0.001	200	0.001	2.5	0	-10	92	92		

T-39-01

t = typical value

JFET Transistors

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RF, VHF, UHF Amplifiers (Continued)

Type No.	Case Style	BV _{GSS} (V) @ I _G Min	BV _{GSS} (V) @ I _G Max	I _{GSS} (nA) @ V _{GS} Max	I _{GSS} (nA) @ V _{GS} Min	V _P (V) @ V _{DS} Min	V _P (V) @ V _{DS} Max	I _D (nA)	I _{DSS} (mA) @ V _{DS} Min	I _{DSS} (mA) @ V _{DS} Max	R _{th(j-c)} (mmho) @ Freq. Min	R _{th(j-c)} (mmho) @ Freq. Max	f _{max} (MHz)	R _e (V _{GS}) (μmho) @ f Max	C _{iss} (pF) @ I _{DSS} Max	V _{GS} (V)	C _{iss} (pF) @ I _{DSS} Max	V _{GS} (V)	C _{iss} (pF) @ V _{DS} Max	V _{GS} (V)	V _{GS} (V)	NF (dB) @ R _G = 1k Freq. (MHz) Max	Process No.	Pkg. No.	
MPF102	TO-92	25	1	2	15	8	15	2	20	15	1.6	100	200	100	7	15	0	3	15	0	3	15	0	50	92
MPF106	TO-92	25	1	1	20	0.5	4	15	10	15	2.5	0.001		200	5	15	0	2	15	0	2	15	0	50	92
MPF107	TO-92	25	1	1	20	2	6	15	8	20	4	0.001		200	5	15	0	1.2	15	0	4	400	50	92	
MPF108	TO-92	25	10	1	15	0.5	8	15	10	15	1.6	100		200	6.5	15	0	2.5	15	0	3	100	50	92	
MPF256	TO-92	25	10	5	15	0.5	7.5	15	200	15	6	0.001		100							2.0	100	90	92	
MPF820	TO-92	25	10	5	15	5.0	15	200	10	15				200	6	15	0	2	15	0	4.0	100	51	92	
PN4223	TO-92	30	1	0.25	20	0.1	8	15	3	18	2.7	200		200	6	15	0	2	15	0	5	200	50	92	
PN4224	TO-92	30	1	0.5	20	0.1	8	15	2	20	1.7	200		200	6	15	0	2	15	0		50	92		
PN4416	TO-92	30	1	0.1	20	6	15	1	5	15	4	400		100	4	15	0	0.8	15	0	4	400	50	92	
U308	TO-52	25	1	0.15	15	1	6	10	12	60	10	0.001		150	5	0	10	10	2.5	0	10	100	92	07	
U309	TO-52	25	1	0.15	15	1	4	10	12	30	10	0.001		150	5	0	10	10	2.5	0	10	100	92	07	
U310	TO-52	25	1	0.15	15	2.5	6	10	24	60	10	0.001		150	5	10	10	10	2.5	10	10		92	07	
U312	TO-52	25	1	0.1	15	1	6	10	10	30	6	0.001		150	3.8	10	10	10	1.2	10	10		90	07	

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