JFET Selection Guide

N-Channel JFETs

RF, VHF, UHF AMPLIFIERS

Type No.	Case Style	BV_{GSS} (V) @ I_G (μA) Min		I_{GSS} (nA)@V_{DG} Max	(V)	V_p (V) Min	Max	@ V_{DS} (V)	I_D (nA)	I_{DSS} (mA) @ Min	Max	V_{DS} (V)	$R_e(Y_{fs})$ (mmho)@Freq Min	(MHz)	$R_e(Y_{os})$ (μmho) @ f Max	(MHz)	C_{iss} (pF)@V_{DS} Max	(V)	V_{GS} (V)	C_{rss} (pF)@V_{DS} Max	(V)	V_{GS} (V)	NF (dB)@R_G = 1k Max	Freq (MHz)	Process No.	Pkg. No.
2N3819	TO-92	25	1	2	15		8	15	2	2	20	15	1.6	100			8	15	0	−4	15	0			50	94
2N3823	TO-72	30	1	0.5	20		8	15	0.5	4	20	15	3.2	200	200	200	6	15	0	−2	15	0	2.5	100	50	25
2N4223	TO-72	30	10	0.25	20	0.1	8	15	0.25	3	18	15	2.7	200	200	200	6	15	0	−2	15	0	5	200	50	25
2N4224	TO-72	30	10	0.5	20	0.1	8	15	0.5	2	20	15	1.7	200	200	200	6	15	0	2	15	0			50	25
2N4416	TO-72	30	1	0.1	20		6	15	1	5	15	15	4	400	100	400	4	15	0	0.8	15	0	4	400	50	25
2N4416A	TO-72	35	1	0.1	20	2.5	6	15	1	5	15	15	4	400	100	400	4	15	0	0.8	15	0	4	400	50	25
2N5078	TO-72	30	1	0.25	20	0.5	8	15		4	25	15	4	200	150	200	6	15	0	2	15	0	3	200	50	25
2N5245	TO-92	30	1	1	20	1	6	15	10	5	15	15	4	400	100	400	4.5	15	0	1	15	0	4	400	90	97
2N5246	TO-92	30	1	1	20	0.5	4	15	10	1.5	7	15	2.5	400	100	400	4.5	15	0	1	15	0			90	97
2N5247	TO-92	30	1	1	20	1.5	8	15	10	8	24	15	4	400	150	400	4.5	15	0	1	15	0			90	97
2N5248	TO-92	30	1	5	20	1	8	15	10	4	20	15	3	200	200	200	6	15	0	2	15	0			50	94
2N5397	TO-72	25	1	0.1	15	1	6	10	1	10	30	10	5.5	450	200	450	5	10	10 mA	1.2	10	10 mA	3.5	450	90	29
2N5398	TO-72	25	1	0.1	15	1	6	10	1	5	40	10	5.0	450	400	450	5.5	10	0	1.3	10	0	3.2	450	90	29
2N5484	TO-92	25	1	1	20	0.3	3	15	10	1	5	15	2.5	100	75	100	5	15	0	1	15	0	3	100	50	92
2N5485	TO-92	25	1	1	20	1	4	15	10	4	10	15	3	400	100	400	5	15	0	1	15	0	4	400	50	92
2N5486	TO-92	25	1	1	20	2	6	15	10	8	20	15	3.5	400	100	400	5	15	0	1	15	0	4	400	50	92
2N5668	TO-92	25	10	2	15	0.2	4	14	10	1	5	15	1	100	50	100	7	15	0	3	15	0	2.5	100	50	92
2N5669	TO-92	25	10	2	15	1	6	15	10	4	10	15	1.6	100	100	100	7	15	0	3	15	0	2.5	100	50	92
2N5670	TO-92	25	10	2	15	2	8	15	10	8	20	15	2.5	100	150	100	7	15	0	3	15	0	2.5	100	50	92
2N5949	TO-92	300	1	1	15	3	7	15	100	12	18	15	3.0	100	75	100	6	15	0	2	15	0	5	100	50	97
2N5950	TO-92	30	1	1	15	2.5	6	15	100	10	15	15	3.0	100	75	100	6	15	0	2	15	0	5	100	50	97
2N5951	TO-92	30	1	1	15	2	5	15	100	7	13	15	3.0	100	75	100	6	15	0	2	15	0	5	100	50	97
2N5952	TO-92	30	1	1	15	1.3	3.5	15	100	4	8	15	1.0	100	75	100	6	15	0	2	15	0	5	100	50	97
2N5953	TO-92	30	1	1	15	0.8	3	15	100	2.5	5	15	1.0	100	50	100	6	15	0	2	15	0	5	100	50	97
J300	TO-92	25	1	0.5	15	1	6	10	1	6	30	10	4.5	0.001	200	0.001	5.5	10	5 mA	1.7	10	5 mA	t2	100	90	92
J304	TO-92	30	1	0.1	20	2	6	15	1	5	15	15	t4.2	400	t80	100	t3	15	0	t.8	15	0	t4	400	50	92
J305	TO-92	30	1	0.1	20	0.5	3	15	1	1	8	15	t3.0	400	t80	100	t3	15	0	t.8	15	0	t4	400	50	92
J308	TO-92	25	1	1	15	1	6.5	10	1	12	60	10	8	0.001	200	0.001	7.5	0	−10	2.5	0	−10	t1.5	100	92	92
J309	TO-92	25	1	1	15	1	4.0	10	1	12	30	10	10	0.001	200	0.001	7.5	0	−10	2.5	0	−10	t1.5	100	92	92
J310	TO-92	25	1	1	15	2	6.5	10	1	24	60	10	8	0.001	200	0.001	7.5	0	−10	2.5	0	−10	t1.5	100	92	92

RF, VHF, UHF AMPLIFIERS (Continued)

Type No.	Case Style	BV_{GSS} (V) @ I_G Min	(μA)	I_{GSS} (nA)@V_{DG} Max	(V)	V_P (V) Min	Max	@ V_{DS} (V)	I_D (nA)	I_{DSS} (mA) @ Min	Max	V_{DS} (V)	$R_e\|Y_{fs}\|$ (mmho)@Freq Min	(MHz)	$R_e(Y_{os})$ (μmho) @ f Max	(MHz)	C_{iss} (pF)@V_{DS} Max	(V)	V_{GS} (V)	C_{rss} (pF)@V_{DS} Max	(V)	V_{GS} (V)	NF (dB)@R_G = 1k Max	Freq (MHz)	Process No.	Pkg. No.
MPF102	TO-92	25	1	2	15		8	15	2	2	20	15	1.6	100	100	200	7	15	0	3	15	0			50	92
MPF106	TO-92	25	1	1	20	0.5	4	15	0.5	4	10	15	2.5	0.001			5	15	0	2	15	0	4	400	50	92
MPF107	TO-92	25	1	1	20	2	6	15	0.5	8	20	15	4	0.001			5	15	0	1.2	15	0	4	400	50	92
MPF108	TO-92	25	10	1	15	0.5	8	15	10	1.5	24	15	1.6	100	200	100	6.5	15	0	2.5	15	0	3	100	50	92
MPF256	TO-92	25	10	5	15	0.5	7.5	15	200μ	3	18	15	6	0.001									2.0	100	90	92
MPF820	TO-92	25	10	5	15		5.0	15	200μ	10		15		0.001									4.0	100	51	92
PN4223	TO-92	30	1	0.25	20	0.1	8	15	1	3	18	15	2.7	200	200	200	6	15	0	2	15	0	5	200	50	92
PN4224	TO-92	30	1	0.5	20	0.1	8	15	5	2	20	15	1.7	200	200	200	6	15	0	2	15	0			50	92
PN4416	TO-92	30	1	0.1	20		6	15	1	5	15	15	4	400	100	400	4	15	0	0.8	15	0	4	400	50	92
U308	TO-52	25	1	0.15	15	1	6	10	1	12	60	10	10	0.001	150	100	5	0	10 mA	2.5	0	10 mA	t3	450	92	07
U309	TO-52	25	1	0.15	15	1	4	10	1	12	30	10	10	0.001	150	100	5	0	10 mA	2.5	0	10 mA	t3	450	92	07
U310	TO-52	25	1	0.15	15	2.5	6	10	1	24	60	10	10	0.001	150	100	5	10	10 mA	2.5	10	10 mA	t3	450	92	07
U312	TO-52	25	1	0.1	15	1	6	10	1	10	30	10	6	0.001			3.8	10	10 mA	1.2	10	10 mA	t3.5	450	90	07

t = typical value.

*V_{DS} = 15 Vdc, R_s = 50 ohms.

LOW FREQUENCY—LOW NOISE AMPLIFIERS

Type No.	Case Style	BV_{GSS} (V) Min	I_G (μA)	I_{GSS} (nA) Max	V_{DG} (V)	$V_{GS(off)}$ (V) Min	Max	V_{DS} (V)	I_D (nA)	I_{DSS} (mA) Min	Max	V_{DS} (V)	g_{fs} ($R_e\|Y_{fs}$) (mmho) Min	Max	V_{DS} (V)	f (MHz)	G_{oss} (μmho) Max	V_{DS} (V)	C_{iss} (pF) Max	V_{DS} (V)	V_{GS} (V)	C_{rss} (pF) Max	V_{DS} (V)	e_n nV/√Hz@f Max	(Hz)	Process No.	Pkg. No.
2N4393	TO-18	40	1.0	0.1	20	0.5	3.0	20	1.0	5	30	20	t12		20	0.001			14	20	0	3.5	.5 (GS)	t8	10	51	02
2N5556	TO-72	30	10	0.1	15	0.2	4.0	15	1.0	0.5	2.5	15	1.5	6.5	15	0.001	20	15	6	15	0	3	15	35	10	50	25
2N5557	TO-72	30	10	0.1	15	0.8	5.0	15	1.0	2	5.0	15	1.5	6.5	15	0.001	20	15	6	15	0	3	15	35	10	50	25
2N5558	TO-72	30	10	0.1	15	1.5	6.0	15	1.0	4	10	15	1.5	*6.5	15	0.001	20	15	6	15	0	3	15	35	10	50	25
NF5101	TO-72	40	1	0.2	15	0.5	1.1	15	1.0	1	12	15	3.5		15	0.001	25	15	t12	15	0	t4	15	3.5	1000	51	25
NF5102	TO-72	40	1	0.2	15	0.7	1.6	15	1.0	4	20	15	7.5		15	0.001	25	15	t12	15	0	t4	15	3.5	1000	51	25
NF5103	TO-72	40	1	0.2	15	1.2	2.7	15	1.0	10	40	15	7.5		15	0.001	25	15	t12	15	0	t4	15	3.5	1000	51	25

t = typical value

N-Channel JFETs

LOW FREQUENCY—LOW NOISE AMPLIFIERS (Continued)

Type No.	Case Style	BV_{GSS} (V) Min	I_G (μA)	I_{GSS} (nA) Max	V_{DG} (V)	$V_{GS(off)}$ (V) Min	Max	V_{DS} (V)	I_D (nA)	I_{DSS} (mA) Min	Max	V_{DS} (V)	g_{fs} ($R_e\|Y_{fs}$) (mmho) Min	Max	V_{DS} (V)	f (MHz)	G_{oss} (μmho) Max	V_{DS} (V)	C_{iss} (pF) Max	V_{DS} (V)	V_{GS} (V)	C_{rss} (pF) Max	V_{DS} (V)	e_n nV/√Hz@f Max	(Hz)	Process No.	Pkg. No.
PF5101	TO-92	40	1	0.2	15	0.5	1.1	15	1.0	1	12	15	3.5		15	0.001	25	15	t12	15	0	t4	15	3.5	1000	51	92
PF5102	TO-92	40	1	0.2	15	0.7	1.6	15	1.0	4	20	15	7.5		15	0.001	25	15	t12	15	0	t4	15	3.5	1000	51	92
PF5103	TO-92	40	1	0.2	15	1.2	2.7	15	1.0	10	40	15	7.5		15	0.001	25	15	t12	15	0	t4	15	3.5	1000	51	92
PN4393	TO-92	40	1.0	0.1	20	0.5	3.0	20	1.0	5	30	20	t12		20	0.001			14	20	0	3.5	5 (GS)	t8	10	51	92

t = typical value

ULTRA LOW INPUT CURRENT AMPS

Type No.	Case Style	BV_{GSS} (V) Min	@ I_G (μA)	I_{GSS} (pA) Max	@V_{DG} (V)	V_P (V) Min	Max	@ V_{DS} (V)	I_D (nA)	I_{DSS} (μA) Min	Max	@ V_{DS} (V)	G_{fs} (μmho) Min	Max	@ V_{DS} (V)	G_{oss} (μmho) Max	V_{DS} (V)	C_{iss} (pF) Max	@V_{DS} (V)	V_{GS} (V)	C_{rss} (pF) Max	@V_{DS} (V)	V_{GS} (V)	Process No.	Pkg. No.
2N4117	TO-72	40	1	10	20	0.6	1.8	10	1	30	90	10	20	210	10	3	10	3	10	0	1.5	10	0	53	25
2N4117A	TO-72	40	1	1	20	0.6	1.8	10	1	30	90	10	70	210	10	3	10	3	10	0	1.5	10	0	53	25
2N4118	TO-72	40	1	10	20	1	3	10	1	80	240	10	80	250	10	5	10	3	10	0	1.5	10	0	53	25
2N4118A	TO-72	40	1	1	20	1	3	10	1	80	240	10	80	250	10	5	10	3	10	0	1.5	10	0	53	25
2N4119	TO-72	40	1	10	20	2	6	10	1	200	600	10	100	330	10	10	10	3	10	0	1.5	10	0	53	25
2N4119A	TO-72	40	1	1	20	2	6	10	1	200	600	10	100	330	10	10	10	3	10	0	1.5	10	0	53	25
NF5301	TO-72	30	1	1	15	0.6	3	10	1	30	500	10	70	300	10			3	10	0	1.5	10	0	53	25
NF5301-1	TO-72	30	1	1	15	0.6	1.8	10	1	30	500	10	70	300	10			3	10	0	1.5	10	0	53	25
NF5301-2	TO-72	30	1	1	15	1.7	3	10	1	30	500	10	70	300	10			3	10	0	1.5	10	0	53	25
NF5301-3	TO-72	30	1	1	15	1.0	2.4	10	1	30	500	10	70	300	10			3	10	0	1.5	10	0	53	25
PF5301	TO-92	30	1	1	15	0.6	3	10	1	30	500	10	70	300	10			3	10	0	1.5	10	0	53	92
PF5301-1	TO-92	30	1	1	15	0.6	1.8	10	1	30	500	10	70	300	10			3	10	0	1.5	10	0	53	92
PF5301-2	TO-92	30	1	1	15	1.7	3	10	1	30	500	10	70	300	10			3	10	0	1.5	10	0	53	92
PF5301-3	TO-92	30	1	1	15	1.0	3.4	10	1	30	500	10	70	300	10			3	10	0	1.5	10	0	53	92
PN4117	TO-92	40	1	10	20	0.6	2.8	10	1	30	90	10	20	210	10	3	10	3	10	0	1.5	10	0	53	92
PN4117A	TO-92	40	1	1	20	0.6	2.8	10	1	30	90	10	70	210	10	3	10	3	10	0	1.5	10	0	53	92
PN4118	TO-92	40	1	10	20	1	3	10	1	80	240	10	80	250	10	5	10	3	10	0	1.5	10	0	53	92
PN4118A	TO-92	40	1	1	20	1	3	10	1	80	240	10	80	250	10	5	10	3	10	0	1.5	10	0	53	92
PN4119	TO-92	40	1	10	20	2	6	10	1	200	600	10	100	330	10	10	10	3	10	0	1.5	10	0	53	92
PN4119A	TO-92	40	1	1	20	2	6	10	1	200	600	10	100	330	10	10	10	3	10	0	1.5	10	0	53	92

N-Channel JFETs

GENERAL PURPOSE AMPS

Type No.	Case Style	BV_{GSS} *BV_{GDO} (V) Min	@ I_G (μA)	I_{GSS} (nA) Max	@V_{DG} (V)	V_P (V) Min	Max	@ V_{DS} (V)	I_D (nA)	I_{DSS} (mA) Min	Max	@ V_{DS} (V)	G_{fs} (mmho) Min	Max	@ V_{DS} (V)	G_{oss} (μmho) Max	@V_{DS} (V)	C_{iss} (pF) Max	@V_{DS} (V)	V_{GS} (V)	C_{rss} (pF) Max	@V_{DS} (V)	V_{GS} (V)	e_n $\left(\frac{NV}{\sqrt{Hz}}\right)$ Max	@Freq (Hz)	Process No.	Pkg. No.
2N3369	TO-18	40	1	5	30		6.5	20	1000	0.5	2.5	30	0.6	2.5	30	30	30	20	8	0	3	30	0			52	02
2N3370	TO-18	40	1	5	30		3.2	20	1000	0.1	0.6	30	0.3	2.5	30	15	30	20	8	0	3	30	0			52	02
2N3458	TO-18	50	1	0.25	30		7.8	20	1000	3	15	20	2.5	10	20	35	30	18	0	−10	5	30	0	225	20	52	02
2N3459	TO-18	50	1	0.25	30		3.4	20	1000	0.8	4	20	1.5	6	20	20	30	18	0	−6	5	30	0	155	20	52	02
2N3460	TO-18	50	1	0.25	30		1.8	20	1000	0.2	1	20	0.8	4.5	20	5	30	18	0	−4	5	30	0	155	20	52	02
2N3684	TO-72	50	1	0.1	30	2	5	20	1	2.5	7.5	20	2	3	20	50	20	4	20	0	1.2	20	0	150	100	52	25
2N3685	TO-72	50	1	0.1	30	1	3.5	20	1	1	3	20	1.5	2.5	20	25	20	4	20	0	1.2	20	0	150	100	52	25
2N3686	TO-72	50	1	0.1	30	0.6	2	20	1	0.4	1.2	20	1	2	20	10	20	4	20	0	1.2	20	0	150	100	52	25
2N3687	TO-72	50	1	0.1	30	0.3	1.2	20	1	0.1	0.5	20	0.5	1.5	20	5	20	4	20	0	1.2	20	0	150	100	52	25
2N3821	TO-72	50	1	0.1	30		4	15	0.5	0.5	2.5	15	1.5	4.5	15	10	15	6	15	0	3	15	0	200	10	55	25
2N3822	TO-72	50	1	0.1	30		6	15	0.5	2	10	15	3	6.5	15	20	15	6	15	0	3	15	0	200	10	55	25
2N3967	TO-72	30	1	0.1	20	2	5	20	1	2.5	10	20	2.5		20	35	20¶	5	20	¶	1.3	20	■	84	100	55	25
2N3967A	TO-72	30	1	0.1	20	2	5	20	1	2.5	10	20	2.5		20	35	20¶	5	20	¶	1.3	20	■	160	10	55	25
2N3968	TO-72	30	1	0.1	20		3	20	1	1	5	20	2		20	15	20**	5	20	**	1.3	20	†	84	100	55	25
2N3968A	TO-72	30	1	0.1	20		3	20	1	1	5	20	2		20	15	20**	5	20	**	1.3	20	†	160	10	55	25
2N3969	TO-72	30	1	0.1	20		1.7	20	1	0.4	2	20	1.3		20	5	20††	5	20	††	1.3	20	¶	84	100	55	25
2N3969A	TO-72	30	1	0.1	20		1.7	20	1	0.4	2	20	1.3		20	5	20††	5	20	††	1.3	20	¶	160	10	55	25
2N4220	TO-72	30	10	0.1	15		4	15	0.1	0.5	3	15	1	4	15	10	15	6	15	0	2	15	0			55	25
2N4220A	TO-72	30	10	0.1	15		4	15	0.1	0.5	3	15	1	4	15	10	15	6	15	0	2	15	0	115	100	55	25
2N4221	TO-72	30	10	0.1	15		6	15	0.1	2	6	15	2	5	15	20	15	6	15	0	2	15	0			55	25
2N4221A	TO-72	30	10	0.1	15		6	15	0.1	2	6	15	2	5	15	20	15	6	15	0	2	15	0	115	100	55	25
2N4222	TO-72	30	10	0.1	15		8	15	0.1	5	15	15	2.5	6	15	40	15	6	15	0	2	15	0			55	25
2N4222A	TO-72	30	10	0.1	15		8	15	0.1	5	15	15	2.5	6	15	40	15	6	15	0	2	15	0	115	100	55	25
2N4338	TO-18	50	1	0.1	30	0.3	1	15	100	0.2	0.6	15	0.6	1.8	15	5	15	7	15	0	3	15	0	68	1000	52	02
2N4339	TO-18	50	1	0.1	30	0.6	1.8	15	100	0.5	1.5	15	0.8	2.4	15	15	15	7	15	0	3	15	0	68	1000	52	02
2N4340	TO-18	50	1	0.1	30	1	3	15	100	1.2	3.6	15	1.3	3	15	30	15	7	15	0	3	15	0	68	1000	52	02
2N4341	TO-18	50	1	0.1	30	2	6	15	100	3	9	15	2	4	15	60	15	7	15	0	3	15	0	68	1000	55	02
2N5103	TO-72	25	10	0.1	15	0.5	4	15	1	1	8	15	2	8	15	100	15	5	15	0	1	15	0	100	10	50	25
2N5104	TO-72	25	1	0.1	15	0.5	4	15	1	2	6	15	3.5	7.5	15	100	15	5	15	0	1	15	0	50	10	50	25

■ I_D = 1 mA; † I_D = 500 μA; †† I_D = 40 μA; ** I_D = 100 μA; ¶ I_D = 250 μA.
t = typical value.

T-29-25

JFET Selection Guide

N-Channel JFETs

GENERAL PURPOSE AMPS (Continued)

Type No.	Case Style	BV_{GSS} *BV_{GDO} (V) Min	@ I_G (μA)	I_{GSS} (nA) Max	@V_{DG} (V)	V_P (V) Min	Max	@ V_{DS} (V)	I_D (nA)	I_{DSS} (mA) Min	Max	@ V_{DS} (V)	G_{fs} (mmho) Min	Max	@ V_{DS} (V)	G_{oss} (μmho) Max	@V_{DS} (V)	C_{iss} (pF) Max	@V_{DS} (V)	V_{GS} (V)	C_{rss} (pF) Max	@V_{DS} (V)	V_{GS} (V)	e_n $\left(\frac{NV}{\sqrt{Hz}}\right)$ Max	@Freq (Hz)	Process No.	Pkg. No.
2N5105	TO-72	25	1	0.1	15	0.5	4	15	1	5	15	15	5	10	15	100	15	5	15	0	1	15	0			50	25
2N5358	TO-72	40	1	0.1	20	0.5	3	15	100	0.5	1	15	1	3	15	10	15	6	15	0	2	15	0	115	100	55	25
2N5359	TO-72	40	1	0.1	20	0.8	4	15	100	0.6	1.6	15	1.2	3.6	15	10	15	6	15	0	2	15	0	115	100	55	25
2N5360	TO-72	40	1	0.1	20	0.8	4	15	100	1.5	3.0	15	1.4	4.2	15	20	15	6	15	0	2	15	0	115	100	55	25
2N5361	TO-72	40	1	0.1	20	1	6	15	100	2.5	5	15	1.5	4.5	15	20	15	6	15	0	2	15	0	115	100	55	25
2N5362	TO-72	40	1	0.1	20	2	7	15	100	4	8	15	2	5.5	15	40	15	6	15	0	2	15	0	115	100	55	25
2N5363	TO-72	40	1	0.1	20	2.5	8	15	100	7	14	15	2.5	6	15	40	15	6	15	0	2	15	0	115	100	55	25
2N5364	TO-72	40	1	0.1	20	2.5	8	15	100	9	18	15	2.7	6.5	15	60	15	6	15	0	2	15	0	115	100	55	25
2N5457	TO-92	25	1	1	15	0.5	6	15	10	1	5	15	2	5	15	50	15	7	15	0	3	15	0			55	92
2N5458	TO-92	25	1	1	15	1	7	15	10	2	9	15	1.5	5.5	15	50	15	7	15	0	3	15	0			55	92
2N5459	TO-92	25	1	1	15	2	8	15	10	4	16	15	2	6	15	50	15	7	15	0	3	15	0			55	92
2N5556	TO-72	30	1	0.1	15	0.2	4	15	1	0.5	2.5	15	1.5	6.5	15	20	15	6	15	0	3	15	0	35	10	50	25
2N5557	TO-72	30	1	0.1	15	0.8	5	15	1	2	5	15	1.5	6.5	15	20	15	6	15	0	3	15	0	35	10	50	25
2N5558	TO-72	30	1	0.1	15	1.5	6	15	1	4	10	15	1.5	6.5	15	20	15	6	15	0	3	15	0	35	10	50	25
J201	TO-92	40	1	0.1	20	0.3	1.5	20	10	0.2	1	20	0.5		20	t1	20	t5	20	0	t2	20	0	t10	1000	52	92
J202	TO-92	40	1	0.1	20	0.8	4	20	10	0.9	4.5	20	1		20	t3.5	20	t5	20	0	t2	20	0	t10	1000	52	92
J203	TO-92	40	1	0.1	20	2	10	20	10	4	20	20	1.5		20	t10	20	t5	20	0	t2	20	0	t10	1000	52	92
J210	TO-92	25	1	0.1	15	1	3	15	1	2	15	15	4	12	15	150	15	t5	15	0	t1.5	15	0	t10	1000	90	92
J211	TO-92	25	1	0.1	15	2.5	4.5	15	1	7	20	15	7	12	15	200	15	t5	15	0	t1.5	15	0	t10	1000	90	92
J212	TO-92	25	1	0.1	15	4	6	15	1	15	40	15	7	12	15	200	15	t5	15	0	t1.5	15	0	t10	1000	90	92
MPF103	TO-92	25	1	1	15		6	15	1	1	5	15	1	5	15	50	15	7	15	0	3	15	0			55	92
MPF104	TO-92	25	1	1	15		7	15	1	2	9	15	1.5	5.5	15	50	15	7	15	0	3	15	0			55	92
MPF105	TO-92	25	1	1	15		8	15	1	4	16	15	2	6	15	50	15	7	15	0	3	15	0			55	92
MPF109	TO-92	25	10	1	15	0.2	8	15	10	0.5	24	15	0.8	6	15	75	15	7	15	0	3	15	0	115	1000	55	92
MPF110	TO-92	20	10	100	10	0.5	10	10	1	0.5	20	10	0.5		10											50	92
MPF111	TO-92	20	10	100	10	0.5	10	10	1000	0.5	20	10	0.5		10	200	10									50	92
MPF112	TO-92	25	10	100	10	0.5	10	10	1000	1	25	10	1	7.5	10											55	92
PN3684	TO-92	50	1	0.1	30	2	5	20	1	2.5	7.5	20	2	3	20	50	20	4	20	0	1.2	20	0	150	20	52	92
PN3685	TO-92	50	1	0.1	30	1	3.5	20	1	1	3	20	1.5	2.5	20	25	20	4	20	0	1.2	20	0	150	20	52	92
PN3686	TO-92	50	1	0.1	30	0.6	2	20	1	0.4	1.2	20	1	2	20	10	20	4	20	0	1.2	20	0	150	20	52	92

N-Channel JFETs

GENERAL PURPOSE AMPS (Continued)

Type No.	Case Style	BV_{GSS} *BV_{GDO} (V) @ I_G (μA) Min		I_{GSS} (nA)@V_{DG} Max	(V)	V_P (V) Min	Max	@ V_{DS} (V)	I_D (nA)	I_{DSS} (mA) @ V_{DS} Min	Max	(V)	G_{fs} (mmho) @ V_{DS} Min	Max	(V)	G_{oss} (μmho)@V_{DS} Max	(V)	C_{iss} (pF)@V_{DS} Max	(V)	V_{GS} (V)	C_{rss} (pF)@V_{DS} Max	(V)	V_{GS} (V)	e_n $\left(\frac{NV}{\sqrt{Hz}}\right)$ Max	@Freq (Hz)	Process No.	Pkg. No.
PN3687	TO-92	50	1	0.1	30	0.3	1.2	20	1	0.1	0.5	20	0.5	1.5	20	5	20	4	20	0	1.2	20	0	150	20	52	92
PN4220	TO-92	30	10	0.1	15		4	15	1	0.5	3	15	1	4	15	10	15	6	15	0	2	15	0			55	92
PN4221	TO-92	30	10	0.1	15		6	15	1	2	6	15	2	5	15	20	15	6	15	0	2	15	0			55	92
PN4222	TO-92	30	10	0.1	15		8	15	1	5	15	15	2.5	6	15	40	15	6	15	0	2	15	0			55	92
PN4302	TO-92	30	1	1	10		4	20	10	0.5	5	20	1		20	50	20	6	20	0	3	20	0	100	1000	52	92
PN4303	TO-92	30	1	1	10		6	20	10	4	10	20	2		20	50	20	6	20	0	3	20	0	100	1000	52	92
PN4304	TO-92	30	1	1	10		10	20	10	0.5	15	20	1		20	50	20	6	20	0	3	20	0	125	1000	52	92
PN5163	TO-92	25	1	10	15	0.4	8	15	1000	1	40	15	2	9	15	200	15	12	15	0	3	15	0	50	1000	50	92
TIS58	TO-92	25	1	4	15	0.5	5	15	20	2.5	8	15	1.3	4	15			6	15	2 mA	3	15	2 mA			50	94
TIS59	TO-92	25	1	4	15	1	9	15	20	6	25	15	1.3		15			6	15	2 mA	3	15	2 mA			50	94

■ I_D = 1 mA; † I_D = 500 μA; †† I_D = 40 μA; ** I_D = 100 μA; ¶ I_D = 250 μA.
t = typical value.

N-Channel JFETs

GENERAL PURPOSE DUAL JFETs

Type No.	Case Style	Operating Conditions For These Characteristics: Op. Char. V_{DG} (V)	Op. Char. I_D (μA)	$\lvert V_{GS1-2}\rvert$ V_{OS} (mV) Max	Drift (μV/°C) ΔV_{GS} Max	I_G (pA) Max	G_{fs} μmhos Min	G_{fs} μmhos Max	G_{oss} (μmho) Max	CMRR (dB) Min	V_{gs} (V) Min	V_{gs} (V) Max	V_P (V) Min	V_P (V) Max	I_{DSS} (mA) Min	I_{DSS} (mA) Max	G_{fs} (mmho) Min	G_{fs} (mmho) Max	G_{oss} (μmho) Max	I_{GSS} (pA) @ V_{DG} Max	I_{GSS} (pA) @ V_{DG} (V)	C_{iss} (pF) Max	C_{rss} (pF) Max	BV (V) Min	e_n (nV/√Hz)@f Max	e_n (nV/√Hz)@f (Hz)	I_{DSS} Match %	G_{fs} Match %	G_{oss1-2} (μmho)	I_{G1}-I_{G2} 125°C (nA)	Process No.	Pkg. No.
2N3921	TO-71	10	700	5	10	250	1500		20					−3.0	1	10	1.5	7.5	35	1000	30	18	6	50	100	1000		5			83	12
2N3922	TO-71	10	700	5	25	250	1500		20					−3.0	1	10	1.5	7.5	35	1000	30	18	6	50	100	1000		5			83	12
2N3934	TO-71	10	200	5	10	100	300		5				See 2N3954-6 as an improved replacement																				12
2N3935	TO-71	10	200	5	25	100	300		5				See 2N3954-6 as an improved replacement																				12
2N3954A	TO-71	20	200	5	5	50					0.5	4	1	4.5	0.5	5	1	3	35	100	30	4	1.2	50	150	100	5	3		10	83	12
2N3954	TO-71	20	200	5	10	50					0.5	4	1	4.5	0.5	5	1	3	35	100	30	4	1.2	50	150	100	5	3		10	83	12
2N3955A	TO-71	20	200	5	15	50					0.5	4	1	4.5	0.5	5	1	3	35	100	30	4	1.2	50	150	100	5	3		10	83	12
2N3955	TO-71	20	200	10	25	50					0.5	4	1	4.5	0.5	5	1	3	35	100	30	4	1.2	50	150	100	5	5		10	83	12
2N3956	TO-71	20	200	15	50	50					0.5	4	1	4.5	0.5	5	1	3	35	100	30	4	1.2	50	150	100	5	5		10	83	12
2N3957	TO-71	20	200	20	75	50					0.5	4	1	4.5	0.5	5	1	3	35	100	30	4	1.2	50	150	100	10	10		10	83	12
2N3958	TO-71	20	200	25	100	50					0.5	4	1	4.5	0.5	5	1	3	35	100	30	4	1.2	50	150	100	15	15		10	83	12
2N4082	TO-71	10	200	15	10	100	300		10				See 2N3954-6 as an improved replacement																				12
2N4083	TO-71	10	200	15	25	100	300		10				See 2N3954-6 as an improved replacement																				12
2N4084	TO-71	10	700	15	10	250	1500		20		0.5	4		3	1	10	1.5	7.5	35	1000	30	18	6	50	100	1000		5			83	12
2N4085	TO-71	10	700	15	25	250	1500		20					3	1	10	1.5	7.5	35	1000	30	18	6	50	100	1000		5			83	12
2N5045	TO-71	15	200	5.0	67								0.5	4.5	0.5	8	1.5	6	25	250	30	8	4	50	200	10					83	12
2N5046	TO-71	15	200	10	133								0.5	4.5	0.5	8	1.5	6	25	250	30	8	4	50	200	10					83	12
2N5047	TO-71	15	200	15	200								0.5	4.5	0.5	8	1.5	6	25	250	30	8	4	50	200	10		20	3		83	12
2N5196	TO-71	20	200	5	5	15	700	1500	4		0.2	3.8	0.7	4.5	0.7	7	1	4	50	25	30	6	2	50	20	1000	5	3	1	5	83	12
2N5197	TO-71	20	200	5	10	15	700	1500	4		0.2	3.8	0.7	4.5	0.7	7	1	4	50	25	30	6	2	50	20	1000	5	3	1	5	83	12
2N5198	TO-71	20	200	10	20	15	700	1500	4		0.2	3.8	0.7	4.5	0.7	7	1	4	50	25	30	6	2	50	20	1000	5	5	1	5	83	12
2N5199	TO-71	20	200	15	40	17	700	1500	4		0.2	3.8	0.7	4.5	0.7	7	1	4	50	25	30	6	2	50	20	1000	5	5	1	5	83	12
2N5452	TO-71	20	200	5	5				1		0.2	4.2	1	4.5	0.5	5	1	3	3	100	30	4	1.2	50	20	1000	5	3	0.25		83	12
2N5453	TO-71	20	200	10	10				1		0.2	4.2	1	4.5	0.5	5	1	3	3	100	30	4	1.2	50	20	1000	5	3	0.25		83	12
2N5454	TO-71	20	200	15	25				1		0.2	4.2	1	4.5	0.5	5	1	3	3	100	30	4	1.2	50	20	1000	5	5	0.25		83	12
2N5545	TO-71	15	200	5	10	50							0.5	4.5	0.5	8	1.5	6	25	100	30	6	2	50	180	10	5	3	1	5	83	12
2N5546	TO-71	15	200	10	20	50							0.5	4.5	0.5	8	1.5	6	25	100	30	6	2	50	200	10	10	5	2	5	83	12
2N5547	TO-71	15	200	15	40	50							0.5	4.5	0.5	8	1.5	6	25	100	30	6	2	50			10	10	3	5	83	12
2N5561	TO-71	10	700	5	5		2000	3000	4		0.2	2.7†	0.8	3	1	10				100	30	15	4	50	50	10	5	3	0.3	10	98	12
2N5562	TO-71	10	700	10	10		2000	3000	4		0.2	2.7†	0.8	3	1	10				100	30	15	4	50	50	10	5	3	0.4	10	98	12
2N5563	TO-71	10	700	15	25		2000	3000	4		0.2	2.7†	0.8	3	1	10				100	30	15	4	50	50	10	5	3	0.5	10	98	12
J401		10	200	5	10	100	1000	1600	2	95		2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10					98	60
J402	8-Pin	10	200	10	10	100	1000	1600	2	95		2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10					98	60
J403	Mini-	10	200	10	25	100	1000	1600	2	95		2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10					98	60
J404	DIP	10	200	15	25	100	1000	1600	2	95		2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10					98	60
J405		10	200	20	40	100	1000	1600	2	90		2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10					98	60
J406		10	200	40	80	100	1000	1600	2			2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10					98	60
J410	8-Pin	20	200	10	10	250	600	1200	5		0.3	4	0.5	3.5	0.5	6	1	4	20	250	20	4.5	1.2	40	50	100					83	60

GENERAL PURPOSE DUAL JFETs (Continued)

Type No.	Case Style	Op. Char. V_{DG} (V)	Op. Char. I_D (μA)	V_{GS1-2} V_{OS} (mV) Max	Drift (μV/°C) ΔV_{GS} Max	I_G (pA) Max	G_{fs} μmhos Min	G_{fs} μmhos Max	G_{oss} (μmho) Max	CMRR (dB) Min	V_{gs} (V) Min	V_{gs} (V) Max	V_p (V) Min	V_p (V) Max	I_{DSS} (mA) Min	I_{DSS} (mA) Max	G_{fs} (mmho) Min	G_{fs} (mmho) Max	G_{oss} (μmho) Max	I_{GSS} (pA) @ V_{DG} Max	I_{GSS} (pA) @ V_{DG} (V)	C_{iss} (pF) Max	C_{rss} (pF) Max	BV (V) Min	e_n (nV/√Hz)@f Max	e_n (nV/√Hz)@f (Hz)	I_{DSS} Match %	G_{fs} Match %	G_{oss1-2} (μmho)	$I_{G1-I_{G2}}$ 125°C (nA)	Process No.	Pkg. No.
J411	Mini-	20	200	25	25	250	600	1200	5		0.3	4	0.5	3.5	0.5	6	1	4	20	250	20	4.5	1.2	40	50	100					83	60
J412	DIP	20	200	40	80	250	600	1200	5		0.3	4	0.5	3.5	0.5	6	1	4	20	250	20	4.5	1.2	40	50	100					83	60
NPD8301	8-Pin	20	200	5	10	100	700	1200	5	70	0.3	4	0.5	3.5	0.5	6	1	4	20	100	20	4.5	1.2	40	50	100					83	67
NPD8302	Mini-	20	200	10	15	100	700	1200	5		0.3	4	0.5	3.5	0.5	6	1	4	20	100	20	4.5	1.2	40	50	100					83	67
NPD8303	DIP	20	200	15	25	100	700	1200	5		0.3	4	0.5	3.5	0.5	6	1	4	20	100	20	4.5	1.2	40	50	100					83	67
U231	TO-71	20	200	5	10	50	600		10		0.3	4	See 2N3954 as an improved replacement																		83	12
U232	TO-71	20	200	10	25	50	600		10		0.3	4	See 2N3955 as an improved replacement																		83	12
U233	TO-71	20	200	15	50	50	600		10		0.3	4	See 2N3956 as an improved replacement																		83	12
U234	TO-71	20	200	20	75	50	600		10		0.3	4	See 2N3957 as an improved replacement																		83	12
U235	TO-71	20	200	25	100	50	600		10		0.3	4	See 2N3958 as an improved replacement																		83	12
U401	TO-71	10	200	5	10	15	1000	1600	2	95		2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10					98	12
U402	TO-71	10	200	10	10	15	1000	1600	2	95		2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10					98	12
U403	TO-71	10	200	10	25	15	1000	1600	2	95		2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10					98	12
U404	TO-71	10	200	15	25	15	1000	1600	2	95		2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10					98	12
U405	TO-71	10	200	20	40	15	1000	1600	2	90		2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10					98	12
U406	TO-71	10	200	40	80	15	1000	1600	2			2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10					98	12

† I_D = 100 μA for V_{GS} for 2N5561/2/3 only.

LOW FREQUENCY—LOW NOISE DUAL JFETs

Type No.	Case Style	Op. Char. V_{DG} (V)	Op. Char. I_D (μA)	V_{GS1-2} V_{OS} (mV) Max	Drift (μV/°C) ΔV_{GS} Max	I_G (pA) Max	G_{fs} μmhos Min	G_{fs} μmhos Max	G_{oss} (μmho) Max	CMRR (dB) Min	V_{gs} (V) Min	V_{gs} (V) Max	V_p (V) Min	V_p (V) Max	I_{DSS} (mA) Min	I_{DSS} (mA) Max	G_{fs} (mmho) Min	G_{fs} (mmho) Max	G_{oss} (μmho) Max	I_{GSS} (pA) @ V_{DG} Max	I_{GSS} (pA) @ V_{DG} (V)	C_{iss} (pF) Max	C_{rss} (pF) Max	BV (V) Min	e_n (nV/√Hz)@f Max	e_n (nV/√Hz)@f (Hz)	I_{DSS} Match %	G_{fs} Match %	G_{oss1-2} (μmho)	$I_{G1-I_{G2}}$ 125°C (nA)	Process No.	Pkg. No.
2N5515	TO-71	20	200	5	5	100	500	1000	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	5	3	0.1	10	95	12
2N5516	TO-71	20	200	5	10	100	500	1000	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	5	3	0.1	10	95	12
2N5517	TO-71	20	200	10	20	100	500	1000	1	90	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	5	5	0.1	10	95	12
2N5518	TO-71	20	200	15	40	100	500	1000	1		0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	5	5	0.1	10	95	12
2N5519	TO-71	20	200	15	80	100	500	1000	1		0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	10	10	0.1	10	95	12
2N5520	TO-71	20	200	5	5	100	500	1000	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	5	3	0.1	10	95	12
2N5521	TO-71	20	200	5	10	100	500	1000	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	5	3	0.1	10	95	12
2N5522	TO-71	20	200	10	20	100	500	1000	1	90	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	5	5	0.1	10	95	12
2N5523	TO-71	20	200	15	40	100	500	1000	1		0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	5	5	0.1	10	95	12
2N5524	TO-71	20	200	15	80	100	500	1000	1		0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	10	10	0.1	10	95	12
2N6483	TO-71	20	200	5	5	100	500	1500	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	200	30	20	3.5	50	10	10	5	3	0.1	10	95	12
2N6484	TO-71	20	200	10	10	100	500	1500	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	200	30	20	3.5	50	10	10	5	3	0.1	10	95	12
2N6485	TO-71	20	200	15	25	100	500	1500	1	90	0.2	3.8	0.7	4	0.5	7.5	1	4	10	200	30	20	3.5	50	10	10	5	5	0.1	10	95	12

N-Channel JFETs

WIDE BAND—LOW NOISE DUAL JFETs

Type No.	Case Style	Op. Char. V_{DG} (V)	Op. Char. I_D (μA)	$\lvert V_{GS1-2}\rvert$ V_{OS} (mV) Max	Drift (μV/°C) ΔV_{GS} Max	I_G (pA) Max	G_{fs} μmhos Min	G_{fs} μmhos Max	G_{oss} (μmho) Max	CMRR (dB) Min	V_{gs} (V) Min	V_{gs} (V) Max	V_P (V) Min	V_P (V) Max	I_{DSS} (mA) Min	I_{DSS} (mA) Max	G_{fs} (mmho) Min	G_{fs} (mmho) Max	G_{oss} (μmho) Max	I_{GSS} (pA) Max	@ V_{DG} (V)	C_{iss} (pF) Max	C_{rss} (pF) Max	BV (V) Min	e_n (nV/√Hz) Max	@f (Hz)	I_{DSS} Match %	G_{fs} Match %	G_{oss1-2} (μmho)	$I_{G1-I_{G2}}$ 125°C (nA)	Process No.	Pkg. No.
2N5564	TO-71	15	2000	5	10		7500		45				0.5	3	5	30				100	20	12	3	40	50	10	5	5			96	12
2N5565	TO-71	15	2000	10	25		7500		45				0.5	3	5	30				100	20	12	3	40	50	10	5	10			96	12
2N5566	TO-71	15	2000	20	50		7500		45				0.5	3	5	30				100	20	12	3	40	50	10	5	10			96	12
2N5911	TO-78	10	5000	10	20	100	5000	10,000	100		0.3	4	1	5	7	40				100	15	5	1.2	25	20	10,000	5	5	20	20	93	24
2N5912	TO-78	10	5000	15	40	100	5000	10,000	100		0.3	4	1	5	7	40				100	15	5	1.2	25	20	10,000	5	5	20	20	93	24
NPD5564	8-Pin	15	2000	5	10		7500		45				0.5	3	5	30				100	20	12	3	40	50	10	5	5			96	67
NPD5565	Mini-	15	2000	10	25		7500		45				0.5	3	5	30				100	20	12	3	40	50	10	5	10			96	67
NPD5566	DIP	15	2000	20	50		7500		45				0.5	3	5	30				100	20	12	3	40	50	10	5	10			96	67
U257	TO-78	10	5000	100			5000	10,000	150				1	5	5	40				100	15	5	1.2	25	30	10,000	15	15	20		93	24

LOW LEAKAGE—HIGH CMRR—WIDE BAND DUAL JFETs

Type No.	Case Style	Op. Char. V_{DG} (V)	Op. Char. I_D (μA)	$\lvert V_{GS1-2}\rvert$ V_{OS} (mV) Max	Drift (μV/°C) ΔV_{GS} Max	$I_{G(pA)}$ @ V_{DG} 35V	G_{fs} μmhos Min	G_{fs} μmhos Max	G_{oss} (μmho) Max	CMRR (dB) Min	V_{gs} (V) Min	V_{gs} (V) Max	V_P (V) Min	V_P (V) Max	I_{DSS} (mA) Min	I_{DSS} (mA) Max	G_{fs} (mmho) Min	G_{fs} (mmho) Max	G_{oss} (μmho) Max	I_{GSS} (pA) Max	@ V_{DG} (V)	C_{iss} (pF) Max	C_{rss} (pF) Max	BV (V) Min	e_n (nV/√Hz) Max	@f (Hz)	I_{DSS} Match %	G_{fs} Match %	G_{oss1-2} (μmho)	$I_{G1-I_{G2}}$ 125°C (nA)	Process No.	Pkg. No.
NDF9406	TO-71	20	200	5	5	5	700	1800	1	120	0.1	4	0.5	4	0.5	10				50	30	5	0.02	50	30	10	5	3	0.1	1	94	12
NDF9407	TO-71	20	200	5	10	5	700	1800	1	120	0.1	4	0.5	4	0.5	10				50	30	5	0.02	50	30	10	5	3	0.1	1	94	12
NDF9408	TO-71	20	200	10	10	5	700	1800	1	110	0.1	4	0.5	4	0.5	10				50	30	5	0.02	50	30	10	5	5	0.1	1	94	12
NDF9409	TO-71	20	200	15	10	5	700	1800	1	110	0.1	4	0.5	4	0.5	10				50	30	5	0.02	50	30	10	5	5	0.1	1	94	12
NDF9410	TO-71	20	200	25	25	5	700	1800	1	100	0.1	4	0.5	4	0.5	10				50	30	5	0.02	50	30	10	10	10	0.1	1	94	12

N-Channel JFETs

ULTRA LOW LEAKAGE DUALS

Type No.	Case Style	Operating Conditions For These Characteristics: Oper. Cond. V_{DG} (V)	Oper. Cond. I_D (μA)	V_{GS1-2} V_{OS} (mV) Max	ΔV_{GS} Drift (μV/°C) Max	I_G (pA) Max	G_{fs} (mmho) Min	G_{oss} (μmho) Max	V_{GS} (V) Max	V_p (V) Min	V_p (V) Max	I_{DSS} (mA) Min	I_{DSS} (mA) Max	G_{fs} (mmho) Min	G_{fs} (mmho) Max	G_{oss} (μmho) Max	I_{GSS} (pA) Max	@V_{GS} (V)	C_{iss} (pF) Max	C_{rss} (pF) Max	BV_{GSS} (V) Min	I_{G1}-I_{G2} @ 125°C (nA) Max	Process No.	Pkg. No.
2N5902	TO-78	10	30	5	5	3	50 μ	1	4	0.6	4.5	30 μ	0.5	70 μ	0.25	5	5	20	3	1.5	40	2	84	24
2N5903	TO-78	10	30	5	10	3	50 μ	1	4	0.6	4.5	30 μ	0.5	70 μ	0.25	5	5	20	3	1.5	40	2	84	24
2N5904	TO-78	10	30	10	20	3	50 μ	1	4	0.6	4.5	30 μ	0.5	70 μ	0.25	5	5	20	3	1.5	40	2	84	24
2N5905	TO-78	10	30	15	40	3	50 μ	1	4	0.6	4.5	30 μ	0.5	70 μ	0.25	4	5	20	3	1.5	40	2	84	24
2N5906	TO-78	10	30	5	5	1	50 μ	1	4	0.6	4.5	30 μ	0.5	70 μ	0.25	5	2	20	3	1.5	40	0.2	84	24
2N5907	TO-78	10	30	5	10	1	50 μ	1	4	0.6	4.5	30 μ	0.5	70 μ	0.25	5	2	20	3	1.5	40	0.2	84	24
2N5908	TO-78	10	30	10	20	1	50 μ	1	4	0.6	4.5	30 μ	0.5	70 μ	0.25	5	2	20	3	1.5	40	0.2	84	24
2N5909	TO-78	10	30	15	40	1	50 μ	1	4	0.6	4.5	30 μ	0.5	70 μ	0.25	5	2	20	3	1.5	40	0.2	84	24
U421	TO-78	Process In Development																					86	24
U422	TO-78																						86	24
U423	TO-78																						86	24
U424	TO-78																						86	24
U425	TO-78																						86	24
U426	TO-78																						86	24

JFET Selection Guide

P-Channel JFETs

SWITCHES

Type No.	Case Style	BV_{GSS} BV_{GDO} (V) @ I_G Min	(μA)	I_{GSS} (nA)@V_{DG} Max	(V)	$I_{D(off)}$ (nA)@V_{DS} Max	(V)	V_{GS} (V)	V_p (V) Min	Max	@ V_{DS} (V)	I_D (μA)	I_{DSS} (mA) @ Min	Max	V_{DS} (V)	r_{ds} (Ω) @ I_D Max	(mA)	C_{iss} (pF)@V_{DS} Max	(V)	V_{GS} (V)	C_{rss} (pF)@V_{DS} Max	(V)	V_{GS} (V)	t_{on} (ns) Max	t_{off} (ns) Max	Process No.	Pkg. No.
2N5018	TO-18	30	1	2	15	10	−15	12		10	−15	1	10		20	75		45	−15	0	10	0	12	35	65	88	11
2N5019	TO-18	30	1	2	15	10	−15	7		5	−15	1	5		20	150		45	−15	0	10	0	7	90	125	88	11
2N5114	TO-18	30	1	0.5	20	0.5	−15	12	5	10	−15	0.001	30	90	18	75	1	25	−15	0	7	0	12	16	21	88	11
2N5115	TO-18	30	1	0.5	20	0.5	−15	7	3	6	−15	0.001	16	60	15	100	1	25	−15	0	7	0	7	30	38	88	11
2N5116	TO-18	30	1	0.5	20	0.5	−15	5	1	4	−15	0.001	5	25	15	150	1	25	−15	0	7	0	5	42	60	88	11
J174	TO-92	30	1	1	20	1	−15	10	5	10	−15	0.01	20	100	15	85	1	11	0	10	5.5	0	10	2	5	88	94
J175	TO-92	30	1	1	20	1	−15	10	3	6	−15	0.01	7	60	15	125	0.5	11	0	10	5.5	0	10	5	10	88	94
J176	TO-92	30	1	1	20	1	−15	10	1	4	−15	0.01	2	25	15	250	0.25	11	0	10	5.5	0	10	15	15	88	94
J177	TO-92	30	1	1	20	1	−15	10	0.8	2.25	−15	0.01	1.5	20	15	300	0.1	11	0	10	5.5	0	10	20	20	88	94
P1086	TO-92	30	1	2	15	10	−15	12		10	−15	1	10		20	75	1	45	−15	0	10	0	12	35	65	88	92
P1087	TO-92	30	1	2	15	10	−15	7		5	−15	1	5		20	150	1	45	−15	0	10	0	7	90	125	88	92