



GENERAL PURPOSE AMPS (Continued)

N-Channel JFETs

Type No.	Case Style	BV _{GSS} *BV _{GDO} (V) @ I _G		I _{GSS} (nA) @ V _{DG}		V _p (V) @ V _{DS}			I _{DSS} (mA) @ V _{DS}			G _{fs} (mmho) @ V _{DS}			G _{oss} (μmho) @ V _{DS}		C _{iss} (pF) @ V _{DS}		C _{rss} (pF) @ V _{DS}		e _n ($\frac{NV}{\sqrt{Hz}}$) @ Freq		Process No.	Pkg. No.			
		Min (μA)	Max (V)	Min	Max (V)	Min	Max	I _D (nA)	Min	Max	V _{DS} (V)	Min	Max	V _{DS} (V)	Max	V _{GS} (V)	Max	V _{GS} (V)	Max	V _{GS} (V)	Max	Hz					
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	11	20	15	20	0	12	20	0	110	1000	52	92
J202	TO-92	40	1	0.1	20	0.8	4	20	10	0.9	4.5	20	1		20	13.5	20	15	20	0	12	20	0	110	1000	52	92
J203	TO-92	40	1	0.1	20	2	10	20	10	4	20	20	1.5		20	110	20	15	20	0	12	20	0	110	1000	52	92
J210	TO-92	25	1	0.1	15	1	3	15	1	2	15	15	4	12	15	150	15	15	15	0	11.5	15	0	110	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	15	15	0	11.5	15	0	110	1000	90	92
J212	TO-92	25	1	0.1	15	4	6	15	1	15	40	15	7	12	15	200	15	15	15	0	11.5	15	0	110	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



RF, VHF, UHF AMPLIFIERS (Continued)

N-Channel JFETs

Type No.	Case Style	BV _{GSS} (V) @ I _G		I _{GSS} (nA) @ V _{DG}		V _p (V) @ V _{DS}			I _{DSS} (mA) @ V _{DS}			R _e Y _{fs} (mmho) @ Freq		R _e (Y _{os}) (μmho) @ f		C _{iss} (pF) @ V _{DS} V _{GS}		C _{rss} (pF) @ V _{DS} V _{GS}		NF (dB) @ R _G = 1k Freq		Process No.	Pkg. No.			
		Min (μA)	Max (V)	Min (V)	Max (V)	Min	Max	I _D (nA)	Min	Max	(V)	Min	Max	Min	Max	Max (V)	V _{GS} (V)	Max (V)	V _{GS} (V)	Max (MHz)	Max (MHz)					
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) @ I _G		I _{GSS} (nA) @ V _{DG}		V _{GS(off)} (V) @ V _{DS}			I _{DSS} (mA) @ V _{DS}			g _{fs} (R _e Y _{fs}) (mmho) @ V _{DS}			f (MHz)	G _{oss} (μmho) @ V _{DS}		C _{iss} (pF) @ V _{DS} V _{GS}		C _{rss} (pF) @ V _{DS} V _{GS}		e _n (nV/√Hz @ f)		Process No.	Pkg. No.		
		Min (μA)	Max (V)	Min (V)	Max (V)	I _D (nA)	Min	Max	(V)	Min	Max	(V)	Min	Max		Max (V)	V _{GS} (V)	Max (V)	V _{GS} (V)	Max (V)	Max (Hz)	Max (Hz)					
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)	18	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	14	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	14	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	14	15	3.5	1000	51	25

t = typical value

