



# GENERAL PURPOSE AMPS

## N-Channel FETs

Transistor Type	Case Style	BV <sub>GSS</sub> *BV <sub>GDO</sub> (V) @ I <sub>G</sub> Min (μA)		I <sub>GSS</sub> *I <sub>DGO</sub> (nA) @ V <sub>DG</sub> Max (V)		V <sub>P</sub> @ V <sub>DS</sub> (V)			I <sub>DSS</sub> @ V <sub>DS</sub> (mA)			G <sub>fs</sub> @ V <sub>DS</sub> (mMho)			G <sub>oss</sub> @ V <sub>DS</sub> (μMho)		C <sub>iss</sub> @ V <sub>DS</sub> (pF)			C <sub>rss</sub> @ V <sub>DS</sub> (pF)			ē <sub>n</sub> (NV/√Hz) @ Freq Max (Hz)		Process No.	
		Min	Max	Min	Max	Min	Max	I <sub>D</sub> (nA)	Min	Max	V <sub>DS</sub> (V)	Min	Max	V <sub>DS</sub> (V)	Min	Max	V <sub>DS</sub> (V)	Max	Max	V <sub>DS</sub> (V)	Max	Max	V <sub>DS</sub> (V)	Max		Max
2N3069	TO-18	*50	1	1	30	9.5	30	1000	2	10	30	1	2.5	30	80	30	15	0	-12	1.5	30	0	125	1000	52	
2N3070	TO-18	*50	1	1	30	4.5	30	1000	0.5	2.5	30	0.75	2.5	30	30	30	15	0	-8	1.5	30	0	125	1000	52	
2N3071	TO-18	*50	1	1	30	2.2	30	1000	0.5	2.5	30	0.75	2.5	30	30	30	15	0	-8	1.5	30	0	125	1000	52	
2N3365	TO-18	*40	1	5	30	11.5	20	1000	0.8	4	30	0.4	2	30	50	30	15	8	0	2.5	30	0			52	
2N3367	TO-18	*40	1	5	30	2.2	20	1000	0.05	0.25	30	0.1	1	30	10	30	15	8	0	2.5	30	0			53	
2N3368	TO-18	*40	1	5	30	11.5	20	1000	2	12	30	1	4	30	80	30	20	8	0	3	30	0			52	
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	
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	
2N3436	TO-18	*50	1	0.5	30	9.8	20	1000	3	15	20	2.5	10	20	35	30	18	0	-10	6	30	0	100	1000	55	
2N3437	TO-18	*50	1	0.5	30	4.8	20	1000	0.8	4	20	1.5	6	20	20	30	18	0	-6	6	30	0	100	1000	55	
2N3438	TO-18	*50	1	0.5	30	2.3	20	1000	0.2	1	20	0.8	4.5	20	5	30	18	0	-4	6	30	0	100	1000	55	
2N3452	TO-72	*50	1	0.1	30	9.8	20	1000	0.8	4	30	0.2	1.2	30	15	30	6	0	-12	1.5	30	0	100	100	53	
2N3453	TO-72	*50	1	0.1	30	4.8	20	1000	0.2	1	30	0.15	0.9	30	5	30	6	0	-8	1.5	30	0	100	100	53	
2N3454	TO-72	*50	1	0.1	30	2.3	20	1000	0.05	0.25	30	0.1	0.6	30	3	30	6	0	-4	1.5	30	0	100	100	53	
2N3455	TO-72	*50	1	0.4	30	9.8	20	1000	0.8	4	30	0.3	9	30	5	30	5	0	-12	1.5	30	0	155	20	53	
2N3456	TO-72	*50	1	0.4	30	4.8	20	1000	0.2	1	30	0.15	0.6	30	3	30	5	0	-8	1.5	30	0	155	20	53	
2N3457	TO-72	*50	1	0.4	30	2.3	20	1000	0.05	0.25	30	0.15	0.6	30	3	30	5	0	-4	1.5	30	0	155	20	53	
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	55	
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	55	
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	
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
2N3685	TO-72	50	1	0.1	30	1	3.5	20	1	1	3	20	1.5	7.5	20	25	20	4	20	0	1.2	20	0	150	100	52
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
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
2N3821	TO-72	50	1	0.1	30	4	15	.5	0.5	2.5	15	1.5	4.5	15	10	15	6	15	0	3	15	0	200	10	55	
2N3822	TO-72	50	1	0.1	30	6	15	.5	2	10	15	3	6.5	15	20	15	6	15	0	3	15	0	200	10	55	
2N3967	TO-72	30	1	0.1	20	2	5	20	1	2.5	10	20	2.5	2.5	20	35	20¶	5	20 ¶	1.3	20	▲	84	100	50	
2N3967A	TO-72	30	1	0.1	20	2	5	20	1	2.5	10	20	2.5	2.5	20	35	20¶	5	20 ¶	1.3	20	▲	160	10	50	
2N3968	TO-72	30	1	0.1	20	3	20	1	1	5	20	2	2	20	15	20**	5	20 **	1.3	20	†	84	100	50		
2N3968A	TO-72	30	1	0.1	20	3	20	1	1	5	20	2	2	20	15	20**	5	20 **	1.3	20	†	160	10	50		
2N3969	TO-72	30	1	0.1	20	1.7	20	1	0.4	2	20	1.3	1.3	20	5	20††	5	20 ††	1.3	20	¶	84	100	50		
2N3969A	TO-72	30	1	0.1	20	1.7	20	1	0.4	2	20	1.3	1.3	20	5	20††	5	20 ††	1.3	20	¶	160	10	50		
2N4139	TO-18	50	1	1	30	2	8	20	1	8	11	20	3.5	7	20	35	20	18	20	0	5	20	0	100	1000	55
2N4220	TO-72	30	10	0.1	15	4	15	.1	0.5	3	15	1	4	15	10	15	6	15	0	2	15	0			52	

▲ I<sub>D</sub> = 1 mA    † I<sub>D</sub> = 500μA    ¶ I<sub>D</sub> = 250μA    § I<sub>D</sub> = 200μA    \*\* I<sub>D</sub> = 100μA    †† I<sub>D</sub> = 40μA