

LOW POWER FIELD EFFECT TRANSISTORS

GENERAL PURPOSE N-CHANNEL

Type Number	Case Style (TO—)	Geometry	•BVDgo or BVgss		Ciss Max (pF)	Crss Max (pF)	Vgs (off)		I <sub>gss</sub> Max (nA)	Y <sub>fs</sub>		I <sub>dss</sub>		R(on) Max (ohms)	Yos Max (uMhos)
			Min (V)	Max (V)			Min (V)	Max (V)		Min (uMhos)	Max (uMhos)	Min (mA)	Max (mA)		
2N3066	18	FN22.2	50	10.0	—	—	9.5	1.0	400	1000	—	4.00	—	50	
2N3067	18	FN22.2	50	10.0	—	—	4.5	1.0	300	1000	—	1.00	—	50	
2N3068	18	FN2.2	50	10.0	—	—	2.2	1.0	200	1000	—	0.25	—	50	
2N3069	18	FN22.2	•50	15.0	1.5	—	9.5	1.0	750	2500	0.50	2.5	—	80	
2N3070	18	FN22.2	•50	15.0	1.5	—	4.5	1.0	750	2500	0.5	2.50	—	30	
2N3071	18	FN3.6	•50	15.0	1.5	—	2.2	1.0	500	2500	0.1	0.60	—	7	
2N3085	18	FN22.2	15	14.0	—	—	10.0	1.0	400	2000	—	3.00	—	50	
2N3087	18	FN22.2	15	14.0	—	—	10.0	1.0	400	2000	—	3.00	—	50	
2N3089	18	FN22.2	15	6.0	2.0	—	5.0	1.0	300	2000	0.50	2.0	—	50	
2N3089A	18	FN22.2	15	6.0	2.0	—	5.0	1.0	300	2000	0.5	2.00	—	50	
2N3365	18	FN22.2	•40	15.0	2.5	—	11.5	5.0	400	2000	0.8	4.00	—	50	
2N3366	18	FN22.2	40	15.0	—	—	6.5	5.0	250	1000	—	1.00	—	20	
2N3367	18	FN22.2	•40	15.0	2.5	—	2.2	5.0	100	1000	0.05	0.25	—	10	
2N3368	18	FN3.6	•40	20.0	2.0	—	11.5	5.0	1000	4000	2.0	12.00	—	80	
2N3369	18	FN22.2	•40	20.0	2.0	—	6.5	5.0	600	2500	0.5	2.50	—	30	
2N3370	18	FN22.2	•40	20.0	3.0	—	3.2	5.0	300	2500	0.1	0.60	—	15	
2N3436	18	FN3.6	•50	18.0	6.0	—	9.8	0.5	2300	10000	3.0	15.00	—	35	
2N3437	18	FN3.6	•50	18.0	6.0	—	4.8	0.5	1500	6000	0.8	4.00	—	20	
2N3438	18	FN22.2	•50	18.0	6.0	—	2.3	0.5	800	4500	0.2	1.00	—	5	
2N3452	18	FN2.2	•50	6.0	1.5	—	9.8	0.1	200	1200	0.8	4.00	—	15	
2N3453	18	FN2.2	•50	6.0	1.5	—	4.8	0.1	150	900	0.2	1.00	—	5	
2N3454	18	FN2.2	•50	6.0	1.5	—	2.3	0.1	100	600	0.05	0.25	—	3	
2N3455	18	FN2.2	•50	5.0	1.5	—	9.8	0.4	300	9000	0.8	4.00	—	5	
2N3456	18	FN2.2	•50	5.0	1.5	—	4.8	0.4	150	600	0.2	1.00	—	3	
2N3457	72	FN2.2	•50	5.0	1.5	—	2.3	0.4	150	600	0.05	0.25	—	3	
2N3458	18	FN3.6	•50	18.0	5.0	—	7.8	0.25	2500	10000	3.0	15.00	—	35	
2N3459	18	FN3.6	•50	18.0	5.0	—	3.4	0.25	1500	6000	0.8	4.00	—	20	
2N3460	18	FN3.6	•50	18.0	5.0	—	1.8	0.25	800	4500	0.2	1.00	—	5	
2N3684	72	FN22.2	50	4.0	1.2	2.0	5.0	0.1	2000	3000	2.5	7.50	—	50	
2N3685	72	FN22.2	50	4.0	1.2	1.0	3.5	0.1	1500	2500	1.0	3.00	—	25	
2N3686	72	FN22.2	50	—	4.0	1.2	0.6	2.0	0.1	1000	2000	0.4	1.20	10	
2N3687	72	FN22.2	50	—	4.0	1.2	0.3	1.2	0.1	500	1500	0.1	0.50	5	
2N3821•	72	FN3.6	50	6.0	3.0	—	4.0	0.1	0.1	1500	4500	0.5	2.50	10	
2N3822•	72	FN3.6	50	6.0	3.0	—	6.0	0.1	0.1	1500	4500	0.5	2.50	10	
2N3967	72	FN2.5	50	6.0	3.0	—	5.0	0.1	0.1	3000	6500	2.0	10.00	20	
2N3967A	72	FN2.5	30	5.0	1.3	2.0	5.0	0.1	2500	—	2.5	10.00	—	35	
2N3968	72	FN2.5	30	5.0	1.3	0.5	3.0	0.1	2000	—	1.0	5.00	—	15	
2N3968A	72	FN2.5	30	5.0	1.3	0.5	3.0	0.1	2000	—	1.0	5.00	—	15	
2N3969	72	FN2.5	30	5.0	1.3	0.3	1.7	0.1	1300	—	0.4	2.00	—	5	
2N3969A	72	FN2.5	30	5.0	1.3	0.3	1.7	0.1	1300	—	0.4	2.00	—	5	
2N4139	18	FN2.5	50	18.0	5.0	2.0	8.0	1.0	3500	7000	8.0	11.00	—	35	
2N4220	72	FN22.2	30	6.0	2.0	—	4.0	0.1	1000	4000	0.5	3.00	—	10	

• These devices are qualified for JAN, JTX, and JTXV.

Most of these devices are available in an epoxy TO-92 package (KK prefix) with similar electrical characteristics. Specify KB prefix for leads formed to TO-18/TO-106 pin circle configuration.

# PRODUCT CATALOG

## LOW POWER FIELD EFFECT TRANSISTORS

### GENERAL PURPOSE N-CHANNEL

Type Number	Case Style (TO—)	Geometry	BVD <sub>go</sub> or BV <sub>gss</sub>		C <sub>iss</sub> Max (pF)	C <sub>rss</sub> Max (pF)	V <sub>gs</sub> (off) (V)		I <sub>gss</sub> Max (nA)	Y <sub>ls</sub> (uMhos)		I <sub>dss</sub> (mA)		R(on) Max (ohms)	Y <sub>os</sub> Max (uMhos)
			Min (V)	Max (V)			Min	Max		Min	Max	Min	Max		
2N4220A	72	FN22.2	30	6.0	2.0	0.5	4.0	0.1	1000	4000	0.5	3.0	—	10	
2N4221	72	FN22.2	30	6.0	2.0	1.0	6.0	0.1	2000	5000	0.2	6.0	—	20	
2N4221A	72	FN22.2	30	6.0	2.0	1.0	6.0	0.1	2000	5000	0.2	6.0	—	20	
2N4222	72	FN2.5	30	6.0	2.0	2.0	8.0	0.1	2500	6000	5.0	15.0	—	40	
2N4222A	72	FN2.5	30	6.0	2.0	2.0	8.0	0.1	2500	6000	5.0	15.0	—	40	
2N4224	72	FN2.5	30	6.0	2.0	0.1	8.0	0.5	2000	7500	2.0	20.0	—		
2N4302	92	FN2.5	30	6.0	3.0	—	4.0	1.0	1000	—	0.5	5.0	—	50	
2N4303	92	FN2.5	30	6.0	3.0	—	6.0	1.0	2000	—	4.0	10.0	—	50	
2N4304	92	FN22.2	30	6.0	3.0	—	10	1.0	1000	—	0.5	15.0	—	50	
2N4338	18	FN22.2	50	6.0	2.0	0.3	1.0	0.1	500	—	0.2	0.6	2.5K	5	
2N4339	18	FN22.2	50	6.0	2.0	0.6	1.8	0.1	800	2400	0.5	1.5	1.7K	15	
2N4340	18	FN22.2	50	6.0	2.0	1.0	3.0	0.1	1300	3000	1.2	3.6	1.5K	30	
2N4341	18	FN22.2	50	6.0	2.0	2.0	6.0	0.1	2000	4000	3.0	9.0	8K	60	
2N5103	72	FN2.5	25	5.0	1.0	0.5	4.0	0.1	2000	8000	1.0	8.0	—	100	
2N5104	72	FN2.5	25	5.0	1.0	0.5	4.0	0.1	3500	7500	2.0	6.0	—	100	
2N5105	72	FN2.5	25	5.0	1.0	0.5	4.0	0.1	5000	10000	5.0	15.0	—	100	
2N5163	92	FN3.6	25	12.0	3.0	0.4	8.0	10	2000	9000	1.0	40.0	—	200	
2N5358	72	FN22.2	40	6.0	2.0	0.5	3.0	0.1	1000	3000	0.5	1.0	—	10	
2N5359	72	FN22.2	40	6.0	2.0	0.8	4.0	1.0	1200	3600	0.6	1.6	—	10	
2N5360	72	FN22.2	40	6.0	2.0	0.8	4.0	0.1	1400	4200	0.5	2.5	—	20	
2N5361	72	FN22.2	40	6.0	2.0	1.0	6.0	0.1	1500	4500	2.5	5.0	—	20	
2N5362	72	FN3.6	40	6.0	2.0	2.0	7.0	0.1	2000	5500	4.0	8.0	—	40	
2N5363	72	FN2.5	40	6.0	2.0	2.5	8.0	0.1	2500	6000	7.0	14.0	—	40	
2N5364	72	FN2.5	40	6.0	2.0	2.5	8.0	0.1	2700	6500	9.0	18.0	—	60	
2N5457	92	FN22.2	25	7.0	3.0	0.5	6.0	1.0	2000	5000	1.0	5.0	—	50	
2N5458	92	FN22.2	25	7.0	3.0	1.0	7.0	1.0	1500	5500	2.0	9.0	—	50	
2N5459	92	FN3.6	25	7.0	3.0	2.0	8.0	1.0	2000	6000	4.0	16.0	—	50	
2N5556	72	FN3.6	30	6.0	3.0	0.2	4.0	0.1	1500	6500	0.5	2.5	—	20	
2N5557	72	FN3.6	30	6.0	3.0	0.2	4.0	0.1	9500	6500	0.5	2.5	—	20	
2N5558	72	FN3.6	30	6.0	3.0	0.8	5.0	0.1	1500	6500	2.0	5.0	—	20	
2N5716	92	FN2.2	40	5.0	1.5	0.2	3.0	1.0	200	1000	0.05	0.25	—	25	
2N5717	92	FN2.2	40	5.0	1.5	0.5	5.0	1.0	400	1600	0.2	1.0	—	25	
2N5718	92	FN2.2	40	5.0	1.5	1.0	8.0	1.0	500	2000	0.8	4.0	—	25	
J308	92	FN71.1	25	5.0	2.5	1.0	6.5	1.0	8000	—	12.0	60.0	—	200	
J309	92	FN71.1	25	5.0	2.5	1.0	4.0	1.0	10000	—	12.0	30.0	—	150	
J310	92	FN71.1	25	5.0	2.5	2.0	6.5	1.0	8000	—	24.0	60.0	—	200	
KK3684	92	FN22.2	50	4.0	1.2	2.0	5.0	1.0	2000	3000	2.5	7.5	—	50	
KK3685	92	FN22.2	50	4.0	1.2	1.0	3.5	1.0	1500	2500	1.0	3.0	—	25	
KK3686	92	FN22.2	50	4.0	1.2	0.6	2.0	1.0	1000	2000	0.4	1.2	—	10	
KK3687	92	FN22.2	50	4.0	1.2	0.3	1.2	1.0	500	1500	0.1	0.5	—	5	
KK4220	92	FN2.5	30	6.0	2.0	0.5	4.0	1.0	1000	4000	0.5	3.0	—	10	
KK4221	92	FN22.2	30	6.0	2.0	1.0	6.0	1.0	2000	5000	2.0	6.0	—	20	

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LOW POWER FIELD EFFECT TRANSISTORS

GENERAL PURPOSE N-CHANNEL

Type Number	Case Style (TO—)	Geometry	•BVD <sub>go</sub> or	C <sub>iss</sub> Max (pF)	C <sub>rss</sub> Max (pF)	V <sub>gs</sub> (off)		I <sub>gss</sub> Max (nA)	Y <sub>fs</sub> (uMhos)		I <sub>dss</sub> (mA)		R(on) Max (ohms)	Y <sub>os</sub> Max (uMhos)
			BV <sub>gss</sub> Min (V)			Min	Max		Min	Max	Min	Max		
KK4302	92	FN2.5	30	6.0	3.0	—	4.0	1.00	1000	—	0.5	5.0	—	50
KK4303	92	FN2.5	30	6.0	3.0	—	6.0	1.00	2000	—	4.0	10	—	50
KK4304	92	FN22.2	30	6.0	3.0	—	1.0	1.00	1000	—	0.5	15	—	50
U308	52	FN71.1	25	7.5	2.5	—	6.0	0.15	0000	20000	12	60	—	—
U309	52	FN71.1	25	7.5	2.5	—	4.0	0.15	10000	20000	12	30	—	—
U310	52	FN71.1	25	7.5	2.5	—	6.0	0.15	10000	18000	24	60	—	—
U311	72	FN71.1	25	7.5	2.5	—	6.0	0.15	10000	20000	20	60	—	—
U312	52	FN36.1	25	5.0	1.2	—	60.0	0.10	6000	10000	10	30	—	—
U320	5	FN9.1	25	30.0	15.0	—	10.0	3.00	75000	200000	100	500	—	—
U322	5	FN9.1	22	30.0	15.0	—	10.0	3.00	75000	200000	200	700	—	—
UC100	72	FN2.5	•30	5.0	3.0	—	5.0	0.10	2000	—	2.5	7.5	600	—
UC105	18	FN22.2	•30	5.0	2.0	—	5.0	0.10	2000	—	2.5	7.5	600	—
UC110	72	FN22.2	•30	5.0	2.0	—	3.0	0.10	15000	—	1.0	3.0	800	—
UC120	72	FN22.2	•30	5.0	2.0	—	1.7	0.10	1200	—	0.4	1.2	1300	—
UC130	72	FN22.2	30	5.0	2.0	—	1.2	0.10	500	—	0.1	0.50	2500	—
UC135	18	FN22.2	•30	5.0	2.0	—	1.2	0.10	500	—	0.1	0.5	2500	—
UC701	18	FN22.2	30	5.0	2.0	—	6.0	—	150	1500	150	0.1	—	—
UC703	72	FN3.6	40	6.0	3.0	—	6.0	0.50	500	5000	0.1	10	2000	—
UC704	72	FN2.5	40	8.0	2.0	—	8.0	0.50	1000	10000	0.2	24	1000	—
UC705	72	FN2.5	40	12.0	2.0	—	8.0	1.00	2000	20000	0.5	50	500	—
UC707	18	FN7.1	20	30.0	8.0	—	12.0	2.00	5000	50000	2.5	250	2000	—
UC714	72	FN2.5	30	8.0	4.0	—	8.0	1.00	2000	6500	2.0	20	—	—
UC714E	92	FN2.5	30	8.0	4.0	—	8.0	1.00	2000	65000	2.0	20	—	—
UC751	18	FN3.6	30	10.0	3.0	—	6.0	2.00	350	—	0.1	—	—	—
UC752	18	FN3.6	30	17.0	3.0	—	6.0	6.00	1000	—	0.3	—	—	—
UC753	18	FN7.1	30	25.0	8.0	—	6.0	10.00	2500	—	0.9	—	—	—
UC754	18	FN3.6	30	6.0	30.0	—	4.0	1.00	1000	—	0.5	—	—	50
UC755	18	FN3.6	30	6.0	3.0	—	6.0	1.00	2000	—	0.4	10	—	50
UC756	18	FN3.6	30	6.0	3.0	—	10.0	1.00	1000	—	0.5	15	—	50
UC757	106	FN2.5	30	7.0	3.0	—	6.0	1.00	1000	5000	1.0	5.0	—	—
UC758	106	FN2.5	25	7.0	3.0	—	7.0	1.00	1500	5500	2.0	9.0	—	50
UC759	106	FN2.5	25	7.0	3.0	—	8.0	1.00	2000	6000	4.0	16	—	50

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