

STMICROELECTRONICS Power MOSFET Transistors



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SINGLE N-CHANNEL SUPERMESH™ MOSFET FAMILY

The SuperMESH™ family has built-in, back-to-back Zener diodes between the gate and source terminals. These Zener diodes improve resistance to destructive electrostatic discharges as well as protecting the gate oxide against damage from spurious voltage spikes. Because they are built-in, they preclude the need for external protection diodes.



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package	Drain Source Breakdown Voltage (Min) (V)	Drain Current (Cont) (Max) (A)	Total Dissipation @ 25°C (Max) (W)	Static Drain Source On Resistance		Price Each			
						Ohms (Max)	@ Drain Current (A)	1	10	100	250
Surface Mount											
511- STN3N40K3	STN3N40K3	SOT-223	400	1.8	3.3	3.400	0.60	1.04	.87	.74	.65
511- STD7NK40Z	STD7NK40ZT4	TO-252	400	5.4	70.0	1.000	2.70	1.71	1.50	1.20	1.06
511- STS1DN45K3	STS1DN45K3	SO-8	450	0.5	1.7	3.800	0.50	1.39	1.23	.96	.82
511- STB5N52K3	STB5N52K3	TO-263	525	4.4	70.0	1.500	2.20	1.18	1.01	.825	.739
511- STB6N52K3	STB6N52K3	TO-263	525	5.0	70.0	1.200	2.50	2.66	2.28	1.86	1.66
511- STB11N52K3	STB11N52K3	D2PAK	525	10.0	125.0	0.510	5.00	3.08	2.77	2.25	1.94
511- STD1NK60	STD1NK60T4	TO-252	600	0.25	30.0	8.500	0.50	.97	.86	.69	.57
511- STN1NK60Z	STN1NK60Z	SOT-223	600	0.3	3.3	15.000	0.40	.73	.62	.48	.41
511- STN1HNK60	STN1HNK60	SOT-223	600	0.4	3.3	8.500	0.50	.94	.82	.667	.56
511- STD3NK60Z	STD3NK60ZT4	TO-252	600	2.4	45.0	3.600	1.20	1.04	.94	.74	.64
511- STB4NK60Z	STB4NK60ZT4	TO-263	600	4.0	70.0	2.000	2.00	1.82	1.57	1.27	1.14
511- STD4NK60Z	STD4NK60ZT4	TO-252	600	4.0	70.0	2.000	2.00	1.38	1.22	.96	.84
511- STL13NM60N	STL13NM60N	Power FLAT-8	600	10.0	90.0	0.385	5.00	3.57	3.20	2.60	2.38
511- STL18NM60N	STL18NM60N	Power FLAT-8	600	12.0	110.0	0.310	6.00	4.00	3.57	2.95	2.66
511- STD3LN62K3	STD3LN62K3	TO-252	620	2.5	45.0	3.000	1.25	1.26	1.08	.883	.791
511- STD4N62K3	STD4N62K3	TO-252	620	3.8	70.0	1.950	1.90	1.73	1.58	1.28	1.11
511- STD5N62K3	STD5N62K3	TO-252	620	4.2	70.0	1.600	2.10	1.61	1.45	1.17	1.04
511- STL8N65M5	STL8N65M5	Power FLAT-5	650	7.0	70.0	0.600	3.50	3.02	2.68	2.07	1.88
511- STN1NK80Z	STN1NK80Z	SOT-223	800	0.25	2.5	16.000	0.50	1.08	.96	.78	.68
511- STD1NK80ZT4	STD1NK80ZT4	TO-252	800	1.0	45.0	16.000	0.50	.94	.82	.66	.56
511- STD2NK90Z	STD2NK90ZT4	TO-252	900	2.1	70.0	6.500	1.05	1.81	1.60	1.25	1.08
511- STB6NK90Z	STB6NK90ZT4	TO-263	900	5.8	140.0	2.000	2.90	3.02	2.62	2.16	1.95
511- STB21N90K5	STB21N90K5	D2PAK	900	18.5	250.0	0.299	9.00	7.47	6.98	6.48	6.23
511- STD6N95K5	STD6N95K5	DPAK	950	9.0	90.0	1.250	3.00	2.64	2.47	2.29	2.20
511- STB20N95K5	STB20N95K5	D2PAK	950	17.5	250.0	0.330	9.00	7.83	7.31	6.79	6.53
511- STD3NK100Z	STD3NK100Z	TO-252	1000	2.5	90.0	6.000	1.25	3.09	2.77	2.20	1.99
Thru-Hole											
511- STFW6N120K3	STFW6N120K3	TO-3PF	120	6.0	63.0	2.400	2.50	7.15	6.43	5.29	4.86
511- STW52NK25Z	STW52NK25Z	TO-247	250	52.0	300.0	0.045	26.00	5.23	4.64	3.78	3.40
511- STP11NK40Z	STP11NK40Z	TO-220AB	400	10.0	110.0	0.550	4.50	1.95	1.76	1.41	1.26
511- STU3N45K3	STU3N45K3	D2PAK	450	1.8	27	3.8	0.5	.65	.60	.48	.432
511- STP9NK50Z	STP9NK50Z	TO-220AB	500	7.2	110.0	0.850	3.60	2.28	2.05	1.65	1.47
511- STP11NK50ZFP	STP11NK50ZFP	TO-220AB	500	10.0	125.0	0.520	4.50	2.07	1.83	1.48	1.32
511- STW14NK50Z	STW14NK50Z	TO-247	500	14.0	150.0	0.380	6.00	3.02	2.70	2.22	2.04
511- STW15NK50Z	STW15NK50Z	TO-247	500	14.0	160.0	0.340	7.00	4.20	3.75	3.04	2.75
511- STF120NK50Z	STF120NK50Z	I2PAK	500	17.0	40.0	0.270	8.50	4.29	4.01	3.72	3.58
511- STW20NK50Z	STW20NK50Z	TO-247	500	17.0	190.0	0.270	8.50	3.12	2.76	2.34	2.09
511- STP4N52K3	STP4N52K3	TO-220FP	525	2.5	40.0	2.600	1.25	1.68	1.56	1.35	1.14
511- STF5N52K3	STF5N52K3	TO-220FP	525	4.4	25	1.5	2.2	1.54	1.35	1.11	1.00
511- STF11N52K3	STF11N52K3	TO-220FP	525	10.0	30.0	0.510	5.00	2.78	2.45	2.01	1.80
511- STP11N52K3	STP11N52K3	TO-220	525	10.0	125.0	0.510	5.00	3.50	3.08	2.50	2.23
511- STP6NK60Z	STP6NK60Z	TO-220AB	600	6.0	110.0	1.200	3.00	1.41	1.23	1.01	.907
511- STP10NK60ZFP	STP10NK60ZFP	TO-220FP	600	10.0	35.0	0.075	4.50	2.78	2.50	1.99	1.76
511- STF10NK60Z	STF10NK60Z	I2PAK	600	10.0	35.0	0.750	4.50	2.46	2.30	2.14	2.05
511- STF13NK60Z	STF13NK60Z	I2PAK	600	13.0	35.0	0.550	4.50	3.36	3.14	2.92	2.80
511- STF24NM60N	STF24NM60N	TO-220FP	600	17.0	125.0	0.190	8.00	5.91	5.21	4.29	3.84
511- STF34NM60N	STF34NM60N	TO-220FP	600	29.0	40.0	0.105	14.50	8.45	7.45	6.13	5.49
511- STP34NM60ND	STP34NM60ND	TO-220	600	29.0	190.0	0.110	14.50	9.25	8.32	6.84	6.29
511- STW34NM60ND	STW34NM60ND	TO-247	600	29.0	190.0	0.110	14.50	9.64	8.61	7.10	6.53
511- STQ2N62K3-AP	STQ2N62K3-AP	TO-92	620	2.2	3.0	3.500	0.50	.97	.89	.833	.744
511- STF2N62K3	STF2N62K3	TO-220FP	620	2.2	20.0	3.600	1.10	1.49	1.34	1.05	.90
511- STB2N62K3	STB2N62K3	D2PAK	620	2.2	45.0	3.600	1.00	1.70	1.54	1.24	1.10
511- STP2N62K3	STP2N62K3	TO-220	620	2.2	45.0	3.600	1.10	1.26	1.11	.904	.808
511- STU2N62K3	STU2N62K3	IPAK	620	2.2	45.0	3.600	1.10	1.15	1.05	.844	.76
511- STF3LN62K3	STF3LN62K3	TO-220FP	620	2.5	20.0	3.000	1.25	.87	.773	.637	.57
511- STU3LN62K3	STU3LN62K3	IPAK	620	2.5	45.0	3.000	1.25	1.12	1.02	.822	.74
511- STF4N62K3	STF4N62K3	TO-220FP	620	3.8	25	2	1.9	1.64	1.45	1.19	1.07
511- STF5N62K3	STF5N62K3	TO-220FP	620	4.2	25.0	1.600	2.10	1.78	1.57	1.29	1.15
511- STU5N62K3	STU5N62K3	IPAK	620	4.2	70.0	1.600	2.10	1.48	1.36	1.08	.98
511- STP17N62K3	STP17N62K3	TO-220AB	620	15.0	190.0	0.380	7.50	5.53	4.82	3.59	3.07
511- STW17N62K3	STW17N62K3	TO-247	620	15.0	190.0	0.380	7.50	6.25	5.51	4.50	4.15
511- STF6N65K3	STF6N65K3	TO-220FP	650	5.4	30.0	1.300	2.80	1.72	1.52	1.25	1.12
511- STP10NM60ND	STP10NM60ND	TO-220FP	650	8.0	25.0	0.600	32.00	2.98	2.68	2.13	1.89
511- STP10NM60ND	STP10NM60ND	TO-220	650	8.0	70.0	0.600	4.00	3.23	2.85	2.30	2.06
511- STF34NM60ND	STF34NM60ND	TO-220FP	650	29.0	40.0	0.110	14.50	10.51	9.26	7.62	6.82
511- STW54NM65ND	STW54NM65ND	TO-247	650	49.0	350.0	0.065	24.50	20.00	17.87	14.73	13.54
511- STP4NK80Z	STP4NK80Z	TO-220AB	800	3.0	80.0	3.500	1.50	1.53	1.25	1.03	.89
511- STP5NK80Z	STP5NK80Z	TO-220AB	800	4.3	110.0	2.400	2.15	1.41	1.23	1.01	.907
511- STP10NK80ZFP	STP10NK80ZFP	TO-220FP	800	9.0	40.0	0.900	4.50	3.20	2.93	2.39	2.15
511- STW10NK80Z	STW10NK80Z	TO-247	800	9.0	160.0	0.900	4.50	3.35	2.98	2.43	2.20
511- STF21N90K5	STF21N90K5	TO-220FP	900	18.5	40.0	0.299	9.00	7.92	7.40	6.87	6.60
511- STW21N90K5	STW21N90K5	TO-247	900	18.5	250.0	0.299	9.00	8.76	8.18	7.60	7.30
511- STP6NK90Z	STP6NK90Z	TO-220AB	900	5.8	140.0	2.000	2.90	2.45	2.19	1.75	1.55
511- STP9NK90Z	STP9NK90Z	TO-220AB	900	8.0	160.0	1.300	3.60	2.81	2.45	2.01	1.80
511- STW12NK90Z	STW12NK90Z	TO-247	900	11.0	230.0	0.880	5.50	4.73	4.22	3.46	3.12
511- STW15NK90Z	STW15NK90Z	TO-247	900	15.0	350.0	0.550	7.50	6.79	6.02	4.90	4.40
511- STP21N90K5	STP21N90K5	TO-220	900	18.5	250.0	0.299	9.0	7.29	6.81	6.32	6.08
511- STF6N95K5	STF6N95K5	TO-220FP	950	9.0	25.0	1.250	3.0	2.82	2.64	2.45	2.35
511- STP6N95K5	STP6N95K5	TO-220	950	9.0	90.0	1.250	3.0	2.82	2.64	2.45	2.35
511- STW6N95K5	STW6N95K5	TO-247	950	9.0	90.0	1.250	3.0	3.84	3.59	3.33	3.20
511- STP13N95K3	STP13N95K3	TO-220AB	950	10.0	190.0	0.850	5.00	7.83	6.91	5.59	5.00

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