

STMicroelectronics Power MOSFET Transistors



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SINGLE N-CHANNEL ENHANCEMENT MODE MOSFETS (CONT.)

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
Thru-Hole (Cont.)											
511-STW4N150	STW4N150	TO-247	1500	4.0	160.0	7.000	2.00	6.96	6.04	5.11	4.52
511-STW9N150	STW9N150	TO-247	1500	8.0	320.0	2.500	4.00	11.22	10.50	8.92	7.98

DUAL N-CHANNEL ENHANCEMENT MODE MOSFETS

These ST Dual N-channel STripFET™ Power MOSFETs are produced in a unique "single feature size" strip-based process. The resulting transistor shows extremely high packing density for low on-resistance, rugged avalanche characteristics and less critical alignment steps therefore a remarkable manufacturing reproducibility.

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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-ST8DN3LLH5	ST8DN3LLH5	SO-8	30	10.0	2.7	0.022	5.00	1.49	1.34	1.05	.90
511-STL40DN3LLH5	STL40DN3LLH5	PowerFlat-8	30	11.0	60.0	0.018	5.50	1.11	1.00	.826	.745
511-STL15DN4F5	STL15DN4F5	PowerFlat-8	40	60.0	4.3	0.009	7.50	2.85	2.43	2.08	1.83

DUAL N&P-CHANNEL ENHANCEMENT MODE MOSFETS

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Surface Mount											
511-ST8CSH30L	ST8CSH30L	SO-8	30/30	8.0/5.0	1.6	0.022/0.055	4.0/2.5	1.79	1.60	1.25	1.08

FULLY CLAMPED N-CHANNEL MOSFETS

For quantities greater than listed, call for quote.

Thru-Hole											
511-STP75NS04Z	STP75NS04Z	TO-220AB	Clamped	80.0	110.0	0.011	40.00	1.50	1.31	1.08	.966

SINGLE P-CHANNEL ENHANCEMENT MODE LOGIC LEVEL MOSFETS

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Surface Mount											
511-ST55PF30L	ST55PF30L	SO-8	-30	-5.0	2.5	0.055	2.50	1.19	.98	.80	.69
511-ST57PF30L	ST57PF30L	SO-8	-30	-7.0	2.5	0.021	3.50	1.79	1.58	1.28	1.11
511-STD30PF03L	STD30PF03LT4	TO-252	-30	-24.0	70.0	0.028	12.00	1.63	1.47	1.18	1.02

SINGLE N-CHANNEL ENHANCEMENT MODE LOGIC LEVEL MOSFETS

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Surface Mount											
511-STV300NH02L	STV300NH02L	PowerSO-10	24	280.0	300.0	0.001	80.00	6.14	5.53	4.50	4.09
511-STS4DNFS30L	ST4DNFS30L	SO-8	30	4.0	2.0	0.055	2.00	1.38	1.22	.96	.84
511-STN4NF03L	STN4NF03L	SOT-223	30	6.5	3.3	0.050	2.00	1.14	.99	.85	.72
511-ST511NF30L	ST511NF30L	SO-8	30	11.0	2.5	0.0105	5.50	.90	.848	.682	.595
511-ST512NF30L	ST512NF30L	SO-8	30	12.0	2.5	0.010	6.00	1.14	.98	.81	.71
511-STD85N3LH5	STD85N3LH5	TO-252	30	80.0	70.0	0.0054	40.00	1.34	1.19	.93	.80
511-STN3NF06L	STN3NF06L	SOT-223	60	3.0	2.5	0.100	1.50	.96	.82	.64	.55
511-ST57NF60L	ST57NF60L	SO-8	60	7.5	2.5	0.0195	3.50	1.61	1.43	1.12	.96
511-STD12NF06L	STD12NF06LT4	TO-252	60	12.0	30.0	0.100	6.00	1.01	.87	.68	.58
511-STB16NF06L	STB16NF06LT4	TO-263	60	16.0	45.0	0.100	8.00	1.15	.97	.77	.66
511-STD16NF06L	STD16NF06LT4	TO-252	60	24.0	40.0	0.070	8.00	1.04	.97	.77	.66
511-STD30NF06L	STD30NF06LT4	TO-252	60	35.0	70.0	0.028	18.00	1.42	1.26	.97	.84
511-STB55NF06L	STB55NF06LT4	TO-263	60	55.0	95.0	0.018	27.50	2.39	1.72	1.52	1.37
511-STD25NF10L	STD25NF10LT4	TO-252	100	25.0	100.0	0.035	12.50	1.49	1.34	1.05	.90
511-STB40NF10L	STB40NF10LT4	TO-263	100	40.0	150.0	0.033	20.00	2.59	2.18	1.76	1.57
511-STD70N10F4	STD70N10F4	TO-252	100	60.0	125.0	0.0195	30.00	1.70	1.47	1.15	1.03
511-STE250NS10	STE250NS10	ISOTOP	100	220.0	500.0	0.0055	125.00	38.85	36.22	31.21	29.05
511-STN4NF20L	STN4NF20L	SOT-223	200	1.0	3.3	1.500	0.50	.79	.63	.47	.39
511-STD5N20L	STD5N20LT4	TO-252	200	5.0	33.0	0.700	2.50	.98	.84	.683	.612
511-STD20NF20	STD20NF20	TO-252	200	18.0	110.0	0.125	10.00	1.95	1.62	1.21	1.16
511-STD16NF25	STD16NF25	TO-252	250	13.0	90.0	0.235	6.50	1.52	1.18	1.09	1.05
511-STD17NF25	STD17NF25	TO-252	250	13.0	90.0	0.235	6.50	1.95	1.62	1.21	1.16
Thru-Hole											
511-STP40NF03L	STP40NF03L	TO-220AB	30	40.0	70.0	0.035	20.00	1.13	1.00	.82	.732
511-STP80NF03L-04	STP80NF03L-04	TO-220AB	30	80.0	300.0	0.004	40.00	2.78	2.48	2.03	1.83
511-STP16NF06L	STP16NF06L	TO-220AB	60	16.0	45.0	0.100	8.00	.92	.80	.62	.54
511-STP36NF06L	STP36NF06L	TO-220AB	60	18.0	25.0	0.040	15.00	1.05	.91	.75	.65
511-STP36NF06L	STP36NF06L	TO-220AB	60	30.0	70.0	0.048	15.00	1.39	1.28	.97	.87
511-STP55NF06L	STP55NF06L	TO-220AB	60	55.0	95.0	0.020	27.50	1.48	1.30	1.01	.92
511-STP60NF06L	STP60NF06L	TO-220AB	60	60.0	110.0	0.014	30.00	1.50	1.33	1.13	1.04
511-STP80NF06L	STP80NF06L	TO-220AB	60	80.0	300.0	0.008	40.00	2.75	2.56	2.02	1.78
511-STP75NF75	STP75NF75	TO-220AB	75	80.0	300.0	0.0095	40.00	2.29	2.06	1.63	1.45
511-STP40NF10L	STP40NF10L	TO-220AB	100	40.0	150.0	0.033	20.00	2.28	2.05	1.65	1.47
511-STP40NF10L	STP40NF10L	TO-220AB	100	50.0	125.0	0.028	25.00	2.06	1.84	1.46	1.29
511-STP30NF20	STP30NF20	TO-220AB	200	30.0	125.0	0.075	15.00	2.56	2.30	1.83	1.62
511-STP25NM60ND	STP25NM60ND	TO-220AB	600	21.0	160.0	0.160	10.50	6.59	6.08	5.14	4.68
511-STP4N150	STP4N150	TO-220AB	1500	4.0	160.0	7.000	2.00	6.25	5.56	4.59	4.10

DUAL N-CHANNEL ENHANCEMENT MODE LOGIC LEVEL MOSFETS

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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-STS4DNF60L	STS4DNF60L	SO-8	60	4.0	2.0	0.055	2.00	1.77	1.50	1.23	1.02

N-CHANNEL IGBT (INSULATED GATE BIPOLAR TRANSISTOR) MOSFETS

Using the latest high voltage technology based on a patented strip layout, STMicroelectronics has designed an advanced family of IGBTs, the PowerMESH™ IGBTs, with outstanding performances. The suffix "H" identifies a family optimized for high frequency applications in order to achieve very high switching performances (reduced tail) maintaining a low voltage drop.



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MOUSER STOCK NO.	STMicroelectronics Part No.	Package	Collector-Emitter Voltage (Min.) (V)	Collector Current (Cont.) (Max.) (A)	Total Dissipation @ 25°C (Max.) (W)	Delay Time (ns) (Typ.)		Price Each			
						On	Off	1	10	100	250
Surface Mount											
511-STGB35N35LZT4	STGB35N35LZT4	D2PAK	345	40	176	1.1	5.5	3.13	2.67	2.18	1.96
511-STGD18N40LZT4	STGD18N40LZT4	TO-251	360	25	125	650	1350	1.86	1.66	1.28	1.12
511-STGIPS10K60T	STGIPS10K60T	SDIP-25L	600	10	33	320	430	25.00	21.95	18.00	16.36
511-STGIPS14K60T	STGIPS14K60T	SDIP-25L	600	14	42	270	320	26.66	23.41	19.20	17.45
511-STGB7NC60HD	STGB7NC60HDT4	TO-263	600	14	80	18.5	72	1.94	1.65	1.33	1.19
511-STGD7NC60H	STGD7NC60HT4	TO-252	600	25	70	18.5	72	2.18	1.88	1.53	1.37
511-STGB20NC60V	STGB20NC60V	TO-252	600	60	200	11	100	3.13	2.67	2.18	1.96

MOSFETS

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