

# Selection Guide - Mosfet Product

## N Channel Product

Part No.	Package	Configuration	Vds	Vgs (±)	ID	PD (W)	Rds(on) / m Ohm max				Vgs(th) (typ)	Ciss (pf)	Coss (pF)	Crss (pF)	Qg (nC)		Qgs (nC)	Qgd (nC)
							10V	4.5V	2.5V	1.8V					10v	4.5v		
STF8220	DFN	Dual-N	20	12	7.0	2		20.0@4V	28		0.80	670	188	140	10.0		1.40	4.20
STA6610	PDIP-8	Dual-N	30	20	7.6	3	23.0	35.0			1.80	620	190	115	13.0	6.8	1.50	3.50
STA6620	PDIP-8	Dual-N	40	20	7.0	3	25.0	42.0			2.00	710	110	68	13.3	6.7	2.00	3.70
STA6968	PDIP-8	Dual-N	60	20	5.3	3	60.0	70.0			1.70	685	85	50	12.7	6.9	1.80	3.60
STM9926	SOP8	Dual-N	20	10	6.5	2		28.0@4V	38		0.90	540	160	100		6.4@4V	1.10	2.80
STM4884A	SOP8	Single-N	30	20	12.0	2.5	6.0	8.5			1.60	3150	680	510	65.0	30.5	11.00	13.00
STM4410A	SOP8	Single-N	30	20	10.0	2.5	9.5	21.0			1.70	1500	380	240	30.5	15.0	6.00	8.00
SDM4410	SOP8	Single-N	30	20	10.0	2.5	13.5	20.0			1.5	1290	280	180	30.6	14.5	3.00	6.80
STM4800A	SOP8	Single-N	30	20	8.2	2.5	18.5	33.0			1.60	750	185	85	14.0	7.2	2.90	2.70
STM4800S	SOP8	Single-N	30	20	8.0	2.5	20.0	28.0			1.70	820	177	60	15.0	7.7	2.20	4.70
STM6610	SOP8	Dual-N	30	20	8.5	2	19.0	28.0			1.80	620	180	110	12.5	6.5	1.40	3.50
STM6915	SOP8	Dual-N	30	20	8.5	2	19.0	28.0			1.80	770	160	95	14.6	7.9	2.20	3.50
STM6913A	SOP8	Dual-N	30	20	6.6	2	26.0	32.0			1.70	520	142	90	11.5	5.8	1.30	3.10
STM6912	SOP8	Dual-N	30	20	6.0	2	32.0	57.0			1.70	576	111	82	12.5	6.3	2.00	2.80
STM8020	SOP8	Single-N	35	20	12.0	2.5	9.0	13.0			1.40	1400	255	145	24.0	11.0	2.50	5.50
STM4470	SOP8	Single-N	40	20	10.0	2.5	10.0	13.0			1.70	1020	240	135	19.5	9.8	2.00	5.50
STM4470A	SOP8	Single-N	40	20	10.0	2.5	10.5	13.5			1.80	1200	230	150	22.0	10.0	2.60	5.50
STM4470E	SOP8	Single-N	40	20	9.5	2.5	12.0	15.0			1.70	1500	220	150	28.0	12.5	3.00	6.00
STM4472	SOP8	Single-N	40	20	7.0	3	24.0	30.0			1.80	700	140	80	13.5	6.7	1.80	2.40
STM6926	SOP8	Dual-N	40	20	8.5	2	16.0	18.0			1.70	1500	220	145	28.0	12.0	3.00	6.00
STM6920	SOP8	Dual-N	40	25	7.0	2	25.0	45.0			1.80	947	117	77	18.2	8.7	2.80	3.30
STM6922	SOP8	Dual-N	40	20	7.0	2	26.0	33.0			1.80	696	123	74	13.3	7.0	2.20	3.90
STM6920A	SOP8	Dual-N	40	20	5.0	2	35.0	62.0			1.80	759	92	70	15.9	7.6	2.20	4.80
STM4550	SOP8	Singe-N	55	20	5.0	2.5	50.0	70.0			1.80	689	92	55	13.3	6.2	1.70	2.80
STM6930A	SOP8	Dual-N	55	20	4.8	2	50.0	75.0			1.80	700	82	50	17.3	8.1	1.80	4.20
STM6962	SOP8	Dual-N	60	20	6.5	2	36.0	42.0			1.80	1200	135	80	25.0	13.0	2.60	7.00
STM6968	SOP8	Dual-N	60	20	5.0	2	60.0	70.0			1.70	685	85	50	12.7	6.9	1.80	3.60
STM6960	SOP8	Dual-N	60	20	5.0	2	60.0	75.0			1.80	700	80	50	15.0	7.5	1.60	4.30

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							10V	4.5V	2.5V	1.8V					10v	4.5v		
STS2306E	SOT-23	Single-N	20	10	6.5	1.25		30.0	40		0.90	540	160	100		6.4	1.10	2.80
STS2300S	SOT-23	Single-N	20	12	6.0	1.25		35.0	45		0.80	803	120	85		8.8	1.80	3.90
STS2306	SOT-23	Single-N	20	8	2.8	1.25		45.0	60		0.80	608	114	86		9.2	1.60	2.60
STS2308A	SOT-23	Single-N	20	10	2.7	1.25		80.0	110		0.80	215	65	45		3.8	1.20	0.90
STS3402	SOT-23	Single-N	30	20	4.6	1.25	30.0	42.0			1.50	782	135	93	15.8		2.00	3.00
STS3400	SOT-23	Single-N	30	20	3.5	1.25	50.0	70.0			1.70	600	125	95		6.8	3.10	1.95
STS3404	SOT-23	Single-N	30	20	3.0	1.25	60.0	100.0			1.50	310	73	38	6.2		0.90	1.80
STS4300	SOT-23	Single-N	40	20	3.5	1.25	62.0	80.0			1.60	320	55	32	6.0		0.80	1.50
STS8201	SOT26	Dual-N	20	10	5.0	1.25		26.0@4V	35		0.80	720	195	147		12@4V	2.30	5.50
STS8205	SOT26	Dual-N	20	10	5.0	1.25		27.5@4V	38		0.90	540	160	100		6.4@4V	1.10	2.80
STS8215	SOT26	Dual-N	20	10	5.0	1.25		27.5@4V	38		0.90	540	160	100		6.4@4V	1.10	2.80
STS3623	SOT26	Dual-N	30	20	4.0	1.25	50.0	65.0			1.60	280	70	38	5.9		0.70	1.40
STS4622	SOT26	Dual-N	40	20	3.0	1.25	65.0	85.0			1.80	330	50	28	6.7		0.90	1.60
STC2200	SOT-323	Single-N	20	10	2.3	1.00		85.0	110		0.80	210	75	46		4.2	0.88	1.53
STD1955NL	TO-251	Single-N	55	20	10.0	50	55.0	80.0			1.90	635	75	50	12.8	7.1	2.60	3.80
STU3055L2	TO-252	Single-N	20	12	16.5	50	45.0	50.0			1.20	230	70	47	5.8	2.9	0.40	1.10
STU5025NLS	TO-252	Single-N	25	20	50.0	50	8.0	12.0			1.70	1150	340	185	29.0	13.0	3.50	8.00
STU3055L	TO-252	Single-N	25	16	12.0	50	60.0	85.0			1.10	240	97	68	5.9	3.2	0.80	1.30
STU6025NL	TO-252	Single-N	30	20	60.0	50	7.0	10.0			1.60	3270	590	420	59.6	28.3	8.50	12.60
STU302S	TO-252	Single-N	30	20	50.0	50	9.0	12.0			1.70	1020	325	225	26.0	13.0	2.30	8.20
STU3030NLS	TO-252	Single-N	30	20	30.0	50	18.0	25.0			1.70	830	180	120	17.0	9.0	1.80	5.00
STU3525NL	TO-252	Single-N	30	20	35.0	50	18.0	45.0			1.80	825	255	150	15.9	8.3	3.30	4.60
STU9916L	TO-252	Single-N	30	20	25.0	50	30.0	40.0			1.00	813	127	98	18.7	9.3	3.90	3.20
STU432S	TO-252	Single-N	40	20	50.0	50	9.0	11.0			1.60	1130	240	145	23.5	11.5	2.70	3.20
STU426S	TO-252	Single-N	40	20	53.0	50	10.0	12.0			1.60	1600	280	150	32.0	15.0	3.50	7.30
STU428S	TO-252	Single-N	40	20	50.0	50	10.0	13.0			1.70	1505	220	150	28.0	12.5	3.00	6.00
STU410S	TO-252	Single-N	40	20	30.0	50	20.0	30.0			1.90	690	140	95	13.5	6.7	1.65	3.85
STU420S	TO-252	Single-N	40	20	24.0	50	24.0	30.0			1.90	750	110	65	15.0	7.0	2.50	4.00
STU2240NL	TO-252	Single-N	40	20	10.0	50	35.0	60.0			1.80	840	85	70	18.7	8.9	3.90	3.10

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							10V	4.5V	2.5V	1.8V					10v	4.5v		
STU1955NL	TO-252	Single-N	55	20	10.0	50	55.0	80.0			1.90	635	75	50	12.8	7.1	2.60	3.80
STU602S	TO-252	Single-N	60	20	22.0	50	30.0	38.0			1.80	1230	125	80	24.5	12.0	2.80	6.00
STU600S	TO-252	Single-N	60	20	16.0	50	55.0	70.0			1.80	670	72	45	14.2	7.0	1.70	3.80
STU608S	TO-252	Single-N	60	20	16.0	50	55.0	65.0			1.60	620	71	45	13.0	6.4	1.40	3.20
STU402D	TO-252-4L	Dual-N	40	20	16.0	11	30.0	40.0			1.80	770	103	65	17.0	8.7	1.90	4.50
STU408D	TO-252-4L	Dual-N	40	20	16.0	11	30.0	40.0			1.80	735	120	70	15.0	7.2	2.00	3.80
STG8211	TSSOP8	Dual-N	20	12	10.0	1.5		13.5@4V	18		0.80	1815	406	255		19@4V	3.50	6.70
STG8210	TSSOP8	Dual-N	20	10	7.0	1.5		20.0@4V	28		0.70	999	234	144		11.5@4V	2.40	4.00
STG8209	TSSOP8	Dual-N	20	10	6.0	1.5		26.0@4V	40		0.80	693	189	136		11@4V	1.80	4.90
STG8203E	TSSOP8	Dual-N	20	10	5.8	1.5		27.5@4V	38		0.90	540	160	100		13.5@4V	1.30	2.70

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## P Channel Product

Part No.	Package	Configuration	Vds	Vgs (±)	ID	PD (W)	Rds(on) / m Ohm max				Vgs(th) (typ)	Ciss (pf)	Coss (pF)	Crss (pF)	Qg (nC)		Qgs (nC)	Qgd (nC)
							10V	4.5V	2.5V	1.8V					10v	4.5v		
STM6375	SOP8	Single-P	-20	10	-8	2.5		20.0	28		-0.80	1932	550	115	30.0	7.0	6.50	5.80
STM4952	SOP8	Dual-P	-20	12	-5.2	2		50.0	80		-0.85	994	181	106		9.5	1.70	1.80
STM4439A	SOP8	Single-P	-30	25	-14	2.5	10.0	18.0			-1.90	3625	980	705	65.5	32.6	10.90	17.50
STM4437A	SOP8	Single-P	-30	25	-10.0	2.5	20.0	28.0			-1.90	2530	635	445	44.6		7.70	11.50
STM4435	SOP8	Single-P	-30	25	-8.0	2.5	20.0	33.0			-1.80	1470	375	250	30.0	15.0	3.40	9.20
STM4637	SOP8	Single-P	-30	25	-8.0	2.5	23.0	38.0			-1.80	1120	280	175	22.0	10.5	2.50	6.50
STM4433A	SOP8	Single-P	-30	20	-6	2.5	35.0	55.0			-1.90	920	270	170	17.5	9.4	2.90	4.80
STM4431	SOP8	Single-P	-30	20	-5.3	2.5	45.0	60.0			-1.50	799	179	105	18.2	9.0	3.80	3.50
STM9435	SOP8	Single-P	-30	20	-4.8	2.5	55.0	85.0			-1.50	582	125	86	11.7	5.7	2.10	2.90
STM4973	SOP8	Dual-P	-30	20	-6	2	35.0	50.0			-1.70	1130	210	130	21.0	10.5	3.40	4.00
STM4953	SOP8	Dual-P	-30	20	-4.5	2	55.0	85.0			-1.50	550	129	89	12.7	8.1	2.40	2.50
STM4639	SOP8	Single-P	-35	24	-14	2.5	8.5	13.0@4V			-0.80(min)	4094	641	351	95.0	40@4V	6.00	23.00
STS2301	SOT-23	Single-P	-20	12	-3.4	1.25		60.0	80		-0.85	926	183	141		11.9	1.96	3.49
STS2307	SOT-23	Single-P	-20	12	-3.0	1.25		80.0	100		-0.80	586	101	59		5.9	1.36	1.40
STS2309A	SOT-23	Single-P	-20	10	-2.3	1.25		130.0	190		-0.80	290	60	45		3.2	0.70	0.80
STS2309	SOT-23	Single-P	-20	12	-2.2	1.25		140.0	200		-0.80	350	80	35		3.6	0.60	1.00
STS3401	SOT-23	Single-P	-30	20	-3.0	1.25	75.0	100.0			-1.50	653	130	97	13.5	7.0	2.30	2.80
STS3405	SOT-23	Single-P	-30	20	-3.0	1.25	100.0	130.0			-1.50	435	90	60	7.8		0.58	2.20
STS2621	SOT26	Dual-P	-20	10	-2.0	1		130.0	190		-0.80	295	63	52		3.5	0.90	1.10
STC2201	SOT-323	Single-P	-20	10	-2.0	1		145.0	195		-0.80	216	55	28		2.9	0.50	1.10
STS4501	SOT-23	Single-P	-40	20	-3.5	1.25	65.0	85.0			-1.60	660	100	60	13.0	6.5	1.40	3.80
STP423S	TO-220	Single-P	-40	20	-65.0	75	9.5	12.5			-1.80	4210	650	380	94.0	48.0	9.50	25.20
STU303S	TO-252	Single-P	-30	20	-24.0	50	28.0	40.0			-1.80	1130	270	170	22.0	10.6	2.70	6.40
STU2030PLS	TO-252	Single-P	-30	20	-20.0	50	32.0	55.0			-1.70	950	250	170	18.5		1.60	5.80
STU1530PL	TO-252	Single-P	-30	20	-20.0	50	45.0	60.0			-1.50	809	174	101	18.8	9.5	3.90	3.20
STU419S	TO-252	Single-P	-40	20	-40.0	50	9.0	12.0			-1.50	3550	710	420	87.0	42.0	9.00	20.00
STU421S	TO-252	Single-P	-40	20	-10.0	50	45.0	60.0			-1.70	900	135	85	17.0	8.0	1.80	5.00
STU2455PLS	TO-252	Single-P	-55	20	-24.0	50	42.0	55.0			-1.70	1730	185	125	31.0	13.5	3.50	7.00
STU1855PL	TO-252	Single-P	-55	20	-15.0	42	68.0	85.0			-1.80	830	110	65	16.7	8.1	1.90	4.10

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## Complementary Product

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							10V	4.5V	2.5V	1.8V					10v	4.5v		
STS2620	SOT26	Complementary	20	10	2.5	1		80.0	110		0.80	223	68	53		3.9	1.30	0.80
			-20	10	-2.0	1		130.0	190		-0.80	293	65	50		3.4	0.80	1.00
STS2620A	SOT26	Complementary	20	10	2.5	1		80.0	110		0.80	223	68	53		3.9	1.30	0.80
			-20	10	-2.0	1		130.0	190		-0.80	293	65	50		3.4	0.80	1.00
STA6611	PDIP-8	Complementary	30	20	7.6	3	23.0	30.0			1.70	620	190	115	13.0	6.8	1.50	3.50
			-30	20	-6.6	3	35.0	55.0			-1.90	850	205	105	15.0	7.5	1.70	4.50
STM4532	SOP8	Complementary	30	20	5.5	2	40.0	50.0			0.80(min)	510	155	127		9.3	2.50	3.20
			-30	20	-4.5	2	55.0	85.0			-1.50	393	116	45	15.6	7.3	2.40	3.30
STM8309	SOP8	Complementary	30	20	7.0	2	23.0	30.0			1.90	680	190	115	11.0	5.5	1.70	3.30
			-30	20	-6.0	2	35.0	52.0			-1.90	870	225	125	15.0	7.5	1.70	4.50
STM8401	SOP8	Complementary	30	20	7.0	2	25.0	40.0			1.50	848	152	104	17.6	8.5	3.70	3.20
			-30	20	-4.5	2	55.0	85.0			-1.50	591	129	89	13.2	6.3	2.30	3.30
STM8405	SOP8	Complementary	30	22	7.0	2.0	25.0	40.0			1.50	765	145	96	14.1	6.2	2.20	4.10
			-30	22	-5.0	2.0	50.0	70.0			-1.50	721	154	92	13.8	7.3	1.50	4.30
STM8306	SOP8	Complementary	30	20	7.0	2	26.0	35.0			1.70	610	142	95	14.6	7.5	1.70	4.00
			-30	20	-6	2	38.0	52.0			-1.70	850	235	150	17.1	9.3	1.50	5.50
STM8358S	SOP8	Complementary	30	20	7.2	2	25.0	36.0			1.80	810	170	110	18.5	9.2	2.20	4.60
			-30	20	-5.2	2	48.0	72.0			-1.70	700	175	115	13.8	7.2	1.30	4.50
STM8455	SOP8	Complementary	40	20	6.0	2	29.0	40.0			1.80	890	115	65	17.0	8.5	2.20	4.30
			-40	20	-5.0	2	42.0	62.0			-1.80	900	140	85	17.6	8.8	1.80	5.00
STM8457	SOP8	Complementary	40	20	6.0	2	26.0	33.0			1.80	750	125	75	12.5	6.4	1.80	3.60
			-40	20	-5.0	2	42.0	62.0			-1.80	960	142	75	15.6	7.7	2.30	4.30
STM8500A	SOP8	Complementary	55	20	4.5	2	60.0	95.0			2.00	510	67	40	11.9	6.1	1.80	2.80
			-55	20	-3	2	110.0	145.0			-1.60	830	75	45	15.5	7.1	2.40	3.20
STM8501	SOP8	Complementary	55	20	5.0	2	50.0	70.0			1.70	930	85	50	20.0	9.5	2.90	4.50
			-55	20	-3.5	2	80.0	100.0			-1.70	900	85	58	18.5	9.1	1.80	4.50
STS3621	SOT26	Complementary	30	20	3.0	1	50.0	65.0			1.70	330	70	45	6.0	3.0	1.00	1.50
			-30	20	-2.0	1	90.0	135.0			-1.80	360	84	52	7.0	3.4	0.90	2.20

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Part No.	Package	Configuration	Vds	Vgs (±)	ID	PD (W)	Rds(on) / m Ohm max				Vgs(th) (typ)	Ciss (pf)	Coss (pF)	Crss (pF)	Qg (nC)		Qgs (nC)	Qgd (nC)
							10V	4.5V	2.5V	1.8V					10v	4.5v		
STU309D	TO-252-4L	Complementary	30	20	18.0	11	23.0	35.0			1.80	640	180	110	13.0	6.8	1.50	3.50
			-30	20	-14.0	11	35.0	55.0			-1.90	850	220	130	16.0	8.0	1.60	4.70
STU309DH	TO-252-4L	Complementary	30	20	18.0	11	22.0	34.0			1.80	640	180	110	13.0	6.8	1.50	3.50
			-30	210	-14.0	11	34.0	54.0			-1.90	850	220	130	16.0	8.0	1.60	4.70
STU310DH	TO-252-4L	Complementary	30	20	19.0	11	20.0	28.0			1.80	635	170	97	12.0	6.0	1.80	3.50
			-30	20	-15.0	11	30.0	44.0			-1.80	1120	280	190	22.0	10.5	2.50	6.50
STU404D	TO-252-4L	Complementary	40	20	16.0	11	30.0	40.0			1.80	885	105	65	17.0	8.6	2.20	4.80
			-40	20	-12.0	11	48.0	65.0			-1.60	980	135	90	20.7	11.0	1.50	6.20
STU405DH	TO-252-4L	Complementary	40	20	11.0	11	33.0	45.0			1.50	580	82	50	11.3	5.8	1.20	2.90
			-40	20	-9.0	11	45.0	65.0			-1.70	980	135	90	20.7	11.0	1.50	6.20
STU407D	TO-252-4L	Complementary	40	20	16.0	11	30.0	40.0			1.80	735	120	70	15.0	7.2	2.00	3.80
			-40	20	-12.0	11	48.0	65.0			-1.60	920	135	75	15.0	7.2	2.00	4.00
STU407DH	TO-252-4L	Complementary	40	20	16.0	11	29.0	39.0			1.80	735	120	70	15.0	7.2	2.00	3.80
			-40	20	-12.0	11	47.0	64.0			-1.60	920	135	75	15.0	7.2	2.00	4.00
STU409DH	TO-252-4L	Complementary	40	20	18.0	11	24.0	30.0			1.80	700	120	75	14.0	7.0	1.60	3.40
			-40	20	-14.0	11	35.0	50.0			-1.80	1000	175	95	17.5	8.5	2.30	4.50

Update : DEC.-2007