

STPOWER

Технические характеристики

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Россия +7(495)268-04-70	Киргизия +996(312)-96-26-47	Казахстан +7(7172)727-132	

Power Transistors

Overview



Leading-edge power technologies for both high-and low-voltage applications combined with a full package range and innovative die bonding technologies exemplify ST's innovation in power transistors belonging to the STPOWER family. ST offers a wide portfolio of **power MOSFETs** ranging from -100 to 1700 V, IGBTs with breakdown voltages ranging from 300 to 1700 V and **power bipolar transistors** ranging from 15 to 1700 V. Due to the improved thermal design of ST's power electronics systems, our **silicon-carbide (SiC)** MOSFETs ensure good robustness thanks to the industry's highest temperature rating of 200 °C and voltage ranging from 650 to 2200 V. As well as, our **Gallium Nitride** on silicon substrate (GaN/Si) transistors allow highest efficiency and highest power density thanks to outstanding specific dynamic on-state resistance and small capacitances ranging to 100, 650 and 900 V.

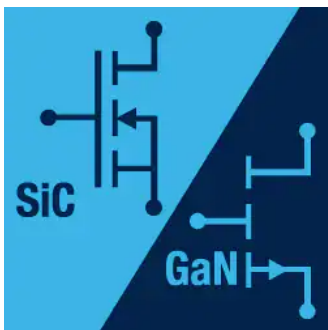
Our wide STPOWER product portfolio combined with state-of-the art packaging (i.e. discrete and module) and protections for high reliability and safety helps designers find the right solutions for customized, high-efficiency applications that will last a long lifetime.

ST's 10-year longevity commitment program ensures stable and continuous supply for customers



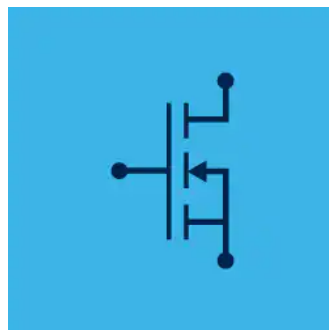
ST has certified several STPOWER high-voltage MOSFETs, IGBTs and Intelligent Power Modules (IPMs) for 10-year longevity. STPOWER SiC MOSFETs are also included in the program, with a minimum longevity commitment of 7 years. This program supports customer design investments by ensuring that selected devices are available during a minimum of 10 or 7 years from the notification date.

Wide bandgap transistor



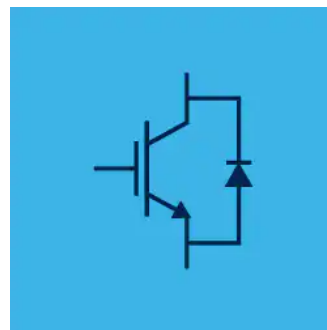
SiC MOSFET from 650 V to 2200 V complemented by GaN transistor from 100 V, 650 V and 900 V allowing for increased power efficiency, smaller size, lighter weight, lower system cost or all of these together.

Power MOSFET



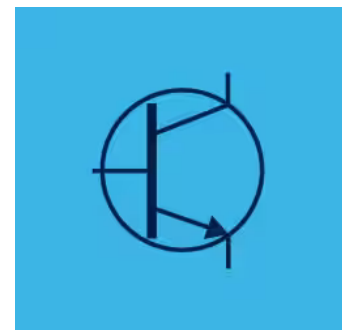
Broad range of breakdown voltages from -100 V to 1700 V, with low gate charge and low on-resistance, combined with state-of-the art packaging.

IGBT



Breakdown voltages from 300 V to 1700 V. Low $V_{CE(SAT)}$ for reduced conduction losses. Improved switch-off energy spread versus increasing temperature.

Power Bipolar



The range includes Darlington transistors and BJTs with a V_{CES} from 15 V to 1700 V.

Power Transistors / IGBTs/STPOWER IGBTs 300-400V (clamped)

Part Number	Grade	Package	V _{CES} (V) max	P _{TOT} (W) max	I _C (A) (@ T _c =25°C) max	I _C (A) (@ T _c =100°C) max	E _{SCIS} (mJ) typ	V _{CE(sat)} (V) typ	Q _g (nC) typ
STGB10NB40LZT4	Automotive	D2PAK	380	150	20	10	300	1.2	28
STGB18N40LZT4	Automotive	D2PAK	360	150	-	30	300	1.35	29
STGB20N40LZ	Automotive	D2PAK	365	150	-	25	300	1.3	24
STGB20N45LZAG	Automotive	D2PAK	415	150	25	25	300	1.1	26
STGB20NB41LZ	Automotive	D2PAK	382	200	40	20	700	1.3	46
STGB25N36LZAG	Automotive	D2PAK	350	150	25	25	300	1.1	25.7
STGB25N40LZAG	Automotive	D2PAK	375	150	25	25	320	1.1	26
STGD18N40LZT4	Automotive	DPAK	360	150	-	30	300	1.35	29
STGD19N40LZ	Automotive	DPAK	365	125	-	25	300	1.5	17
STGD20N40LZ	Automotive	DPAK	390	125	-	25	300	1.3	24
STGD20N45LZAG	Automotive	DPAK	485	125	25	25	300	1.1	26
STGD25N36LZAG	Automotive	DPAK	350	150	25	25	300	1.1	25.7
STGD25N40LZAG	Automotive	DPAK	375	150	25	25	320	1.1	26
STGI25N36LZAG	Automotive	I2PAK	350	150	25	25	300	1.1	25.7

Power Transistors / IGBTs/STPOWER IGBTs 600-650V

Part Number	Grade	Package	V _{CE(sat)} (V) max	P _{TOT} (W) max	Freewheeling diode	I _C (A) (@ T _c =25°C) max	I _C (A) (@ T _c =100°C) max	I _F (A) (@ T _c =25°C) max	I _F (A) (@ T _c =100°C) max	V _{CE(sat)} (V) typ	V _F (V) typ	Q _g (nC) typ	E _{on} (mJ) typ	E _{off} (mJ) typ	E _{rr} (μJ) typ	Q _{rr} (nC) typ
STGB10H60DF	Industrial	D2PAK	600	115	true	20	10	20	10	1.5	1.7	57	0.083	0.14	-	120
STGB10M65DF2	Industrial	D2PAK	650	115	true	20	10	20	10	1.55	1.5	28	0.12	0.27	52	373
STGB10NC60HD	Industrial	D2PAK	600	65	true	20	10	10	-	1.75	2	19.2	0.03	0.1	-	14
STGB10NC60KDT4	Industrial	D2PAK	600	65	true	20	10	10	-	2.2	2	19	0.055	0.085	-	14
STGB14NC60KDT4	Industrial	D2PAK	600	80	true	25	14	10	-	1.85	1.8	34.4	0.08	0.16	-	98
STGB15H60DF	Industrial	D2PAK	600	115	true	30	15	30	15	1.6	1.8	81	0.14	0.21	-	-
STGB15M65DF2	Industrial	D2PAK	650	136	true	30	15	30	15	1.55	1.7	45	0.09	0.45	64	525
STGB19NC60HDT4	Industrial	D2PAK	600	130	true	40	19	20	-	1.8	2.6	53	0.09	0.19	-	30
STGB19NC60KDT4	Industrial	D2PAK	600	125	true	35	20	20	-	1.9	1.9	55	0.17	0.26	-	30
STGB20H60DF	Industrial	D2PAK	600	210	true	40	20	40	20	1.6	1.8	115	0.21	0.26	-	-
STGB20H65DFB2	Industrial	D2PAK	650	147	true	40	25	40	23	1.65	1.65	56	0.265	0.214	293	970
STGB20H65FB2	Industrial	D2PAK	650	147	false	40	25	-	-	1.65	-	56	0.265	0.214	-	-
STGB20M65DF2	Industrial	D2PAK	650	166	true	40	20	40	20	1.55	1.85	63	0.14	0.56	81	690
STGB30H60DFB	Industrial	D2PAK	600	260	true	60	30	60	30	1.55	2	149	0.383	0.293	104	384
STGB30H60DLLFBAG	Automotive	D2PAK	600	260	true	60	30	60	30	1.7	1.4	110	-	0.6	-	-
STGB30H65DFB2	Industrial	D2PAK	650	167	true	50	30	41	24	1.65	1.8	90	-	0.31	145	600
STGB30M65DF2	Industrial	D2PAK	650	258	true	60	30	60	30	1.55	1.85	80	0.3	0.96	115	880
STGB30V60DF	Industrial	D2PAK	600	260	true	60	30	60	30	1.85	2	163	0.38	0.23	104	384
STGB40H65FB	Industrial	D2PAK	650	283	false	80	40	-	-	1.6	-	210	0.498	0.363	-	-
STGB40V60F	Industrial	D2PAK	600	283	false	80	40	-	-	1.8	-	226	0.456	0.411	-	-
STGB4M65DF2	Industrial	D2PAK	650	68	true	8	4	8	4	1.6	1.9	15.2	0.04	0.14	15	140
STGB50H65FB2	Industrial	D2PAK	650	272	false	86	53	-	-	1.55	-	151	0.91	0.58	-	-
STGB5H60DF	Industrial	D2PAK	600	88	true	10	5	10	5	1.5	2.1	43	0.06	0.08	-	-
STGB6M65DF2	Industrial	D2PAK	650	88	true	12	6	12	6	1.55	2.2	21.2	0.04	0.2	16	210
STGB6NC60HDT4	Industrial	D2PAK	600	80	-	15	7	10	-	1.75	-	13.6	-	-	-	-
STGB7H60DF	Industrial	D2PAK	600	88	true	14	7	14	7	1.5	1.5	46	0.1	0.1	-	-
STGB7NC60HD	Industrial	D2PAK	600	80	true	25	14	20	-	1.7	1.3	35	0.1	0.12	-	40
STGB8NC60KD	Industrial	D2PAK	600	65	false	15	8	7	-	2.2	1.6	19	0.06	0.09	-	16.5
STGD10HF60KD	Automotive	DPAK	600	62.5	true	18	10	7	-	2	1.75	23	0.05	0.29	-	150
STGD10NC60HT4	Industrial	DPAK	600	60	false	20	10	-	-	1.9	-	19.2	0.03	0.17	-	-
STGD10NC60KDT4	Industrial	DPAK	600	62	true	20	10	10	-	2	2	19	0.055	0.085	-	14

STGD3HF60HDT4	Industrial	DPAK	600	38	true	7.5	4.5	10	-	2.45	1.4	12	0.02	0.01	-	124
STGD4H60DF	Industrial	DPAK	600	75	true	8	4	8	4	1.5	1.75	35	0.068	0.045	9.9	66
STGD4M65DF2	Industrial	DPAK	650	68	true	8	4	8	4	1.6	1.9	15.2	0.04	0.14	15	140
STGD5H60DF	Industrial	DPAK	600	83	true	10	5	10	5	1.5	2.1	43	0.06	0.08	-	-
STGD6M65DF2	Industrial	DPAK	650	88	true	12	6	12	6	1.55	2.2	21.2	0.04	0.2	16	210
STGD6NC60H-1	Industrial	IPAK	600	60	false	15	7	-	-	1.9	-	13.6	0.04	0.09	-	-
STGD6NC60HDT4	Industrial	DPAK	600	60	true	15	7	10	-	1.75	1.6	13.6	0.02	0.07	-	14
STGD7NB60ST4	Industrial	DPAK	600	55	false	15	7	-	-	1.6	-	33	0.4	3.5	-	-
STGD7NC60HT4	Industrial	DPAK	600	70	false	25	14	-	-	1.85	-	35	0.1	0.12	-	-
STGD8NC60KD	Industrial	DPAK	600	62	true	15	8	7	-	2.2	1.6	19	0.06	0.09	-	16.5
STGE200NB60S	Industrial	ISOTOP	600	600	false	200	150	-	-	1.2	-	560	11.7	59	-	-
STGF10H60DF	Industrial	TO-220FP	600	30	true	20	10	20	10	1.5	1.7	57	0.083	0.14	-	120
STGF10M65DF2	Industrial	TO-220FP	650	30	true	20	10	20	10	1.55	1.5	28	0.12	0.27	52	373
STGF10NB60SD	Industrial	TO-220FP	600	25	true	23	12	20	-	1.35	1.9	33	0.6	5	-	40
STGF10NC60KD	Industrial	TO-220FP	600	25	true	9	6	10	-	2	2	19	0.06	0.09	-	14
STGF14NC60KD	Industrial	TO-220FP	600	28	true	11	7	10	-	1.85	1.8	34.4	0.08	0.16	-	98
STGF15H60DF	Industrial	TO-220FP	600	30	true	30	15	30	15	1.6	1.8	81	0.14	0.21	-	-
STGF15M65DF2	Industrial	TO-220FP	650	31	true	30	15	30	15	1.55	1.7	45	0.09	0.45	64	525
STGF19NC60KD	Industrial	TO-220FP	600	32	true	16	10	20	-	1.9	1.9	55	0.17	0.26	-	30
STGF20H60DF	Industrial	TO-220FP	600	37	true	40	20	40	20	1.6	1.8	115	0.21	0.26	-	-
STGF20H65DFB2	Industrial	TO-220FP	650	45	true	40	25	40	23	1.65	1.65	56	0.265	0.214	293	970
STGF20M65DF2	Industrial	TO-220FP	650	33	true	40	20	40	20	1.55	1.85	63	0.14	0.56	81	690
STGF30H65DFB2	Industrial	TO-220FP	650	50	true	50	30	41	24	1.65	1.8	90	-	0.31	145	600
STGF30M65DF2	Industrial	TO-220FP	650	40	true	60	30	60	30	1.55	1.85	80	0.3	0.96	115	880
STGF4M65DF2	Industrial	TO-220FP	650	23	true	8	4	8	4	1.6	1.9	15.2	0.04	0.14	15	140
STGF5H60DF	Industrial	TO-220FP	600	24	true	10	5	10	5	1.5	2.1	43	0.06	0.08	-	-
STGF6M65DF2	Industrial	TO-220FP	650	25	true	12	6	12	6	1.55	2.2	21.2	0.04	0.2	16	210
STGF6NC60HD	Industrial	TO-220FP	600	56	true	6	3	10	-	1.75	1.6	13.6	0.02	0.07	-	14
STGF7H60DF	Industrial	TO-220FP	600	24	true	14	7	14	7	1.5	1.5	46	0.1	0.1	-	-
STGF7NB60SL	Industrial	TO-220FP	600	25	false	15	7	-	-	1.2	-	16	2.7	4.1	-	-

STGFW40H65FB	Industrial	TO-3PF	650	98.6	false	80	40	-	-	1.6	-	210	0.498	0.363	-	-
STGFW40V60DF	Industrial	TO-3PF	600	98.5	true	80	40	80	40	1.8	1.7	226	0.456	0.411	151	440
STGH30H65DFB-2AG	Automotive	H2PAK-2	650	260	true	60	30	40	20	1.55	2	155	0.555	0.3	78	189
STGO30H60DLLFBAG	Automotive	TO-LL	600	263	true	60	30	60	30	1.6	1.4	110	0.54	0.66	-	-
STGP10H60DF	Industrial	TO-220	600	115	true	20	10	20	10	1.5	1.7	57	0.083	0.14	-	120
STGP10M65DF2	Industrial	TO-220	650	115	true	20	10	20	10	1.55	1.5	28	0.12	0.27	52	373
STGP10NB60S	Industrial	TO-220	600	80	false	29	16	-	-	1.35	-	33	0.6	5	-	-
STGP10NB60SD	Industrial	TO-220	600	80	true	29	16	20	-	1.25	1.9	33	0.6	5	-	40
STGP10NC60HD	Industrial	TO-220	600	130	true	20	10	10	-	1.75	2	19.2	0.03	0.1	-	14
STGP10NC60KD	Industrial	TO-220	600	65	true	20	10	10	-	2	2	19	0.06	0.085	-	14
STGP14NC60KD	Industrial	TO-220	600	80	true	25	14	10	-	1.85	1.8	34.4	0.08	0.16	-	98
STGP15H60DF	Industrial	TO-220	600	115	true	30	15	30	15	1.6	1.8	81	0.14	0.21	-	-
STGP15M65DF2	Industrial	TO-220	650	136	true	30	15	30	15	1.55	1.7	45	0.09	0.45	64	525
STGP19NC60HD	Industrial	TO-220	600	130	true	40	19	20	-	1.8	2.6	53	0.09	0.19	-	30
STGP19NC60KD	Industrial	TO-220	600	125	true	35	20	20	-	1.9	1.9	55	0.17	0.26	-	30
STGP19NC60SD	Industrial	TO-220	600	130	true	40	20	20	-	1.9	2.3	54.5	0.14	0.82	-	70.5
STGP20H60DF	Industrial	TO-220	600	210	true	40	20	40	20	1.6	1.8	115	0.21	0.26	-	-
STGP20H65DFB2	Industrial	TO-220	650	147	true	40	25	40	23	1.65	1.65	56	0.265	0.214	293	970
STGP20H65FB2	Industrial	TO-220	650	147	false	40	25	-	-	1.65	-	56	0.265	0.214	-	-
STGP20IH65DF	Industrial	TO-220	650	159	true	40	20	20	10	1.55	1.5	56	-	0.11	-	-
STGP20M65DF2	Industrial	TO-220	650	166	true	40	20	40	20	1.55	1.85	63	0.14	0.56	81	690
STGP20NC60V	Industrial	TO-220	600	200	false	60	30	-	-	1.65	-	100	0.22	0.33	-	-
STGP20V60DF	Industrial	TO-220	600	167	true	40	20	40	20	1.8	1.7	116	0.2	0.13	115	320
STGP30H60DF	Industrial	TO-220	600	150	true	60	30	60	30	2	2	105	0.35	0.4	-	-
STGP30H60DFB	Industrial	TO-220	600	260	true	60	30	60	30	1.55	2	149	0.383	0.293	104	384
STGP30H65DFB2	Industrial	TO-220	650	167	true	50	30	41	24	1.65	1.8	90	0.27	0.31	145	600
STGP30IH65DF	Industrial	TO-220	650	180	true	60	30	30	15	1.55	1.65	80	-	0.123	-	-
STGP30M65DF2	Industrial	TO-220	650	258	true	60	30	60	30	1.55	1.85	80	0.3	0.96	115	880
STGP3HF60HD	Industrial	TO-220	600	38	true	7.5	4.5	10	-	2.45	1.4	12	0.02	0.01	-	124
STGP4M65DF2	Industrial	TO-220	650	68	true	8	4	8	4	1.6	1.9	15.2	0.04	0.14	15	140

STGP5H60DF	Industrial	TO-220	600	88	true	10	5	10	5	1.5	2.1	43	0.06	0.08	-	-
STGP6M65DF2	Industrial	TO-220	650	88	true	12	6	12	6	1.55	2.2	21.2	0.04	0.2	16	210
STGP6NC60HD	Industrial	TO-220	600	80	true	15	7	10	-	1.75	1.6	13.6	0.02	0.07	-	14
STGP7H60DF	Industrial	TO-220	600	88	true	14	7	14	7	1.5	1.5	46	0.1	0.1	-	-
STGP7NC60HD	Industrial	TO-220	600	80	true	25	14	20	-	1.7	1.3	35	0.1	0.12	-	40
STGP8NC60KD	Industrial	TO-220	600	65	true	15	8	7	-	2.2	1.6	19	0.06	0.09	-	16.5
STGSB200M65DF2AG	Automotive	ACEPACK SMIT	650	714	true	216	200	138	138	1.65	-	554	3.82	6.97	2396	25500
STGSH80HB65DAG	Automotive	ACEPACK SMIT	650	250	true	83	65	83	65	1.6	1.8	456	-	1.3	-	1253
STGST200G65DFAG	Automotive	STPAK	650	-	true	-	200	-	-	1.55	-	650	-	5.5	-	-
STGW100H65FB2-4	Industrial	TO247-4	650	441	false	91	145	-	-	1.55	-	288	-	1.137	-	-
STGW10M65DF2	Industrial	TO-247	650	115	true	20	10	20	10	1.55	1.5	28	0.12	0.27	52	373
STGW19NC60HD	Industrial	TO-247	600	140	true	42	21	20	-	1.8	2.6	53	0.09	0.19	-	30
STGW20H60DF	Industrial	TO-247	600	210	true	40	20	40	20	1.6	1.8	115	0.21	0.26	-	-
STGW20NC60V	Industrial	TO-247	600	200	false	60	30	-	-	1.65	-	100	0.22	0.33	-	-
STGW20NC60VD	Industrial	TO-247	600	200	true	60	30	30	-	1.65	2	100	0.22	0.33	-	66
STGW20V60DF	Industrial	TO-247	600	167	true	40	20	40	20	1.8	1.7	116	0.2	0.13	115	320
STGW20V60F	Industrial	TO-247	600	167	false	40	20	-	-	1.8	-	116	0.2	0.13	-	-
STGW30H60DFB	Industrial	TO-247	600	260	true	60	30	60	30	1.55	2	149	0.383	0.293	104	384
STGW30H65FB	Industrial	TO-247	650	260	false	30	30	-	-	1.55	-	149	0.151	0.293	-	-
STGW30M65DF2	Industrial	TO-247	650	258	true	60	30	60	30	1.55	1.85	80	0.3	0.96	115	880
STGW30NC60KD	Industrial	TO-247	600	200	true	60	28	30	-	2.1	2.6	96	0.35	0.44	-	50
STGW30NC60VD	Industrial	TO-247 long leads	600	250	true	80	40	30	-	1.8	1.8	100	0.22	0.33	-	66
STGW30NC60WD	Industrial	TO-247	600	200	true	60	30	30	-	1.9	2.6	102	0.31	0.18	-	50
STGW30V60DF	Industrial	TO-247	600	260	true	60	30	60	30	1.85	2	163	0.38	0.23	104	384
STGW39NC60VD	Industrial	TO-247	600	250	true	80	40	30	-	1.7	2.4	126	0.33	0.54	-	56
STGW40H60DLFB	Industrial	TO-247	600	283	true	80	40	80	40	1.6	1.55	210	-	0.36	-	-
STGW40H65DFB	Industrial	TO-247	650	283	true	80	40	80	40	1.6	1.7	210	0.498	0.363	68	99
STGW40H65FB	Industrial	TO-247	650	283	false	80	40	-	-	1.6	-	210	0.498	0.363	-	-
STGW40NC60KD	Industrial	TO-247	600	250	true	70	38	30	-	1.7	2.6	135	0.6	0.72	-	56
STGW40V60DF	Industrial	TO-247	600	283	true	80	40	80	40	1.8	1.7	226	0.456	0.411	151	440

STGW50H65DFB2-4	Industrial	TO247-4	650	272	true	86	53	60	38	1.55	1.85	151	0.91	0.58	138	673
STGW60H65DFB	Industrial	TO-247	650	375	true	80	60	80	60	1.6	2	306	1.59	0.9	68	99
STGW60H65FB	Industrial	TO-247	650	375	false	80	60	-	-	1.6	-	306	1.59	0.9	-	-
STGW60V60DF	Industrial	TO-247	600	375	true	80	60	80	60	1.85	2	334	0.75	0.55	184	703
STGW60V60F	Industrial	TO-247	600	375	false	80	60	-	-	1.85	-	334	0.75	0.55	-	-
STGW75H65DFB2-4	Industrial	TO247-4	650	357	true	115	71	110	65	1.55	1.8	207	1.428	1.05	144	923
STGW75M65DF2	Industrial	TO-247	650	468	true	120	75	120	75	1.65	2	225	0.69	2.54	289	1720
STGW80H65DFB	Industrial	TO-247	650	469	true	120	80	120	80	1.6	1.9	414	2.1	1.5	267	1105
STGW80H65DFB-4	Industrial	TO247-4	650	469	true	120	80	120	80	1.6	2.15	414	1	1.7	170	955
STGW80V60DF	Industrial	TO-247	600	469	true	120	80	120	80	1.85	1.9	448	1.8	1	70	112
STGWA100H65DFB2	Industrial	TO-247 long leads	650	300	true	145	91	110	65	1.55	1.9	288	2.2	1.4	268	1256
STGWA19NC60HD	Industrial	TO-247 long leads	600	208	true	52	31	20	-	1.8	2.6	53	0.085	0.189	-	30
STGWA20H65DFB2	Industrial	TO-247 long leads	650	147	true	40	25	40	23	1.65	1.8	56	0.265	0.214	293	970
STGWA20HP65FB2	Industrial	TO-247 long leads	650	147	true	40	25	5	5	1.65	1.85	56	-	0.214	1.6	21
STGWA20IH65DF	Industrial	TO-247 long leads	650	159	true	40	20	20	10	1.55	1.85	56	-	0.11	-	-
STGWA20M65DF2	Industrial	TO-247 long leads	650	166	true	40	20	40	20	1.55	1.85	63	0.14	0.56	81	690
STGWA30H65DFB2	Industrial	TO-247 long leads	650	167	true	50	30	41	24	1.65	1.8	90	0.27	0.31	145	600
STGWA30HP65FB2	Industrial	TO-247 long leads	650	167	false	50	30	5	5	1.65	2	90	-	0.31	1.6	21
STGWA30IH65DF	Industrial	TO-247 long leads	650	180	true	60	30	30	15	1.55	2	80	-	0.123	-	-
STGWA30M65DF2	Industrial	TO-247 long leads	650	258	true	60	30	60	30	1.55	1.85	80	0.3	0.96	115	880
STGWA40H65DFB	Industrial	TO-247 long leads	650	283	true	80	40	80	40	1.6	1.7	210	0.498	0.363	68	99
STGWA40H65DFB2	Industrial	TO-247 long leads	650	227	true	72	45	-	-	-	-	-	-	170	1.6	-
STGWA40H65FB	Industrial	TO-247 long leads	650	283	false	80	40	-	-	1.6	-	210	0.498	0.363	-	-
STGWA40HP65FB	Industrial	TO-247 long leads	650	227	false	72	45	5	5	1.55	2	153	-	0.41	1.6	21
STGWA40HP65FB2	Industrial	TO-247 long leads	650	227	false	72	45	5	5	1.55	2	153	-	0.41	1.6	21
STGWA40IH65DF	Industrial	TO-247 long leads	650	283	true	80	40	80	40	1.5	1.85	114	-	0.19	-	-
STGWA50H65DFB2	Industrial	TO-247 long leads	650	272	true	86	53	60	38	1.55	1.85	151	0.91	0.58	138	673
STGWA50HP65FB2	Industrial	TO-247 long leads	650	272	false	86	53	-	-	1.55	-	151	0.919	0.58	-	-
STGWA50IH65DF	Industrial	TO-247 long leads	650	300	true	100	50	50	25	1.5	1.75	158	-	0.28	-	-
STGWA50M65DF2	Industrial	TO-247 long leads	650	468	true	80	50	80	50	1.65	1.85	150	0.88	1.57	192	1370

STGWA60H65DFB	Industrial	TO-247 long leads	650	375	true	80	60	80	60	1.6	2	306	1.59	0.9	68	99
STGWA60V60DF	Industrial	TO-247 long leads	600	375	true	80	60	80	60	1.85	2	334	0.75	0.55	184	703
STGWA60V60DFWAG	Automotive	TO-247 long leads	600	375	true	80	60	-	30	1.85	1.45	314	1.02	0.55	87	282
STGWA75H65DFB2	Industrial	TO-247 long leads	650	357	true	115	71	110	65	1.55	1.8	207	1.428	1.05	144	923
STGWA75M65DF2	Industrial	TO-247 long leads	650	468	true	120	75	120	75	1.65	2	225	0.69	2.54	289	1720
STGWA80H65DFB	Industrial	TO-247 long leads	650	469	true	120	80	120	80	1.6	1.9	414	2.1	1.5	267	1105
STGWA80H65DFBAG	Automotive	TO-247 long leads	650	535	true	120	80	120	80	1.65	1.9	453	3.26	2.33	92	700
STGWA80H65FB	Industrial	TO-247 long leads	650	469	false	120	80	-	-	1.6	-	414	2.1	1.5	-	-
STGWA80H65FBAG	Automotive	TO-247 long leads	650	535	false	120	80	-	-	1.65	-	453	3.26	2.33	-	-
STGWF30NC60S	Industrial	TO-3PF	600	79	false	22	11	-	-	1.9	-	96	0.3	1.28	-	-
STGWT20H65FB	Industrial	TO-3P	650	168	false	40	20	-	-	1.55	-	120	0.077	0.17	-	-
STGWT30H60DFB	Industrial	TO-3P	600	260	true	60	30	60	30	1.55	2	149	0.383	0.293	104	384
STGWT30HP65FB	Industrial	TO-3P	650	283	false	60	30	5	5	1.55	2	105	-	0.29	1.6	21
STGWT40H65DFB	Industrial	TO-3P	650	283	true	80	40	80	40	1.6	1.7	210	0.498	0.363	68	99
STGWT40HP65FB	Industrial	TO-3P	650	283	false	80	40	5	5	1.6	2	210	-	0.36	1.6	21
STGWT60H65DFB	Industrial	TO-3P	650	375	true	80	60	80	60	1.6	2	306	1.59	0.9	68	99
STGWT60H65FB	Industrial	TO-3P	650	375	false	80	60	-	-	1.6	-	306	1.59	0.9	-	-
STGWT80H65DFB	Industrial	TO-3P	650	469	true	120	80	120	80	1.6	1.9	414	2.1	1.5	267	1105
STGY40NC60VD	Industrial	Max247	600	260	true	80	50	30	-	1.9	1.5	214	0.33	0.72	-	237
STGY50NC60WD	Industrial	Max247	600	278	true	110	50	30	-	2.1	3.2	195	0.47	0.79	-	100
STGYA120M65DF2	Industrial	Max247 long leads	650	625	true	160	120	160	120	1.65	1.9	420	1.8	4.41	500	2900
STGYA120M65DF2AG	Automotive	Max247 long leads	650	625	true	160	120	160	120	1.65	1.9	420	1.8	4.41	500	2900
STGF19NC60HD	Industrial	TO-220FP	600	32	true	16	10	20	-	1.75	2.6	53	0.09	0.19	-	30
STGW40H65DFB-4	Industrial	TO247-4	650	283	true	80	40	80	40	1.6	1.7	210	0.2	0.41	72	111
STGW60H65DFB-4	Industrial	TO247-4	650	375	true	80	60	80	60	1.6	2	306	0.35	1.16	68	99

Power Transistors / IGBTs/STPOWER IGBTs >= 1200V

Part Number	Grade	Package	V _{CE(sat)} (V) max	P _{TOT} (W) max	Freewheeling diode	I _C (A) (@ T _c =25°C) max	I _C (A) (@ T _c =100°C) max	I _F (A) (@ T _c =25°C) max	I _F (A) (@ T _c =100°C) max	V _{CE(sat)} (V) typ	V _F (V) typ	E _{on} (mJ) typ	E _{off} (mJ) typ	E _{rr} (μJ) typ	Q _{rr} (nC) typ
GWA40MS120DF4AG	Automotive	TO-247 long leads	1200	468	true	80	40	80	40	1.85	2.85	1.5	2.25	1120	2575
GWA40MS120F4AG	Automotive	TO-247 long leads	1200	468	true	80	40	80	40	1.85	2.85	1.5	2.25	1120	2575
STGB3NC120HD	Industrial	D2PAK	1200	75	true	14	7	3	-	2.3	1.6	0.236	0.29	-	85
STGD5NB120SZ	Industrial	DPAK	1200	75	false	10	5	-	-	1.3	-	2.59	9	-	-
STGF3NC120HD	Industrial	TO-220FP	1200	25	true	6	3	3	-	2.3	1.6	0.236	0.29	-	85
STGP3NC120HD	Industrial	TO-220	1200	75	true	14	7	3	-	2.3	1.6	0.236	0.29	-	85
STGP8M120DF3	Industrial	TO-220	1200	167	true	16	8	16	8	1.85	2.4	0.39	0.37	211	870
STGW15H120DF2	Industrial	TO-247	1200	260	true	30	15	30	15	2.1	3.5	0.38	0.37	400	720
STGW15M120DF3	Industrial	TO-247	1200	259	true	30	15	30	15	1.85	2.7	0.55	0.85	180	960
STGW20IH125DF	Industrial	TO-247	1250	259	true	40	20	40	20	2	1.1	-	0.41	-	-
STGW25H120DF2	Industrial	TO-247	1200	375	true	50	25	50	25	2.1	3.8	0.6	0.7	520	930
STGW25H120F2	Industrial	TO-247	1200	375	false	50	25	-	-	2.1	-	0.6	0.7	-	-
STGW25M120DF3	Industrial	TO-247	1200	326	true	50	25	50	25	1.85	2.95	0.85	1.3	220	1200
STGW28IH125DF	Industrial	TO-247	1250	375	true	60	30	60	30	2	1.2	-	0.72	-	-
STGW30NC120HD	Industrial	TO-247	1200	220	true	60	30	30	-	2.2	1.9	1.66	4.44	-	235
STGW40H120DF2	Industrial	TO-247	1200	468	true	80	40	80	40	2.1	3.9	1	1.32	380	2590
STGW40H120F2	Industrial	TO-247	1200	468	false	80	40	-	-	2.1	-	1	1.32	-	-
STGW40M120DF3	Industrial	TO-247	1200	468	true	80	40	80	40	1.85	2.85	1.5	2.25	1120	2575
STGW8M120DF3	Industrial	TO-247	1200	167	true	16	8	16	8	1.85	2.4	0.39	0.37	211	870
STGWA15H120DF2	Industrial	TO-247 long leads	1200	260	true	30	15	30	15	2.1	3.5	0.38	0.37	400	720
STGWA15M120DF3	Industrial	TO-247 long leads	1200	259	true	30	15	30	15	1.85	2.7	0.55	0.85	180	960
STGWA25H120DF2	Industrial	TO-247 long leads	1200	375	true	50	25	50	25	2.1	3.8	0.6	0.7	520	930
STGWA25H120F2	Industrial	TO-247 long leads	1200	375	false	50	25	-	-	2.1	-	0.6	0.7	-	-
STGWA25IH135DF2	Industrial	TO-247 long leads	1350	340	true	50	25	43	25	1.7	1.15	-	1	-	-
STGWA25M120DF3	Industrial	TO-247 long leads	1200	326	true	50	25	50	25	1.85	2.95	0.85	1.3	220	1200
STGWA35IH135DF2	Industrial	TO-247 long leads	1350	416	true	70	35	43	35	1.7	1.25	-	1.6	-	-

STGWA40H120DF2	Industrial	TO-247 long leads	1200	468	true	80	40	80	40	2.1	3.9	1	1.32	380	2590
STGWA40H120F2	Industrial	TO-247 long leads	1200	468	false	80	40	-	-	2.1	-	1	1.32	-	-
STGWA40M120DF3	Industrial	TO-247 long leads	1200	468	true	80	40	80	40	1.85	2.85	1.5	2.25	1120	2575
STGWA8M120DF3	Industrial	TO-247 long leads	1200	167	true	16	8	16	8	1.85	2.4	0.39	0.37	211	870
STGWT20IH125DF	Industrial	TO-3P	1250	259	true	40	20	40	20	2	1.1	-	0.41	-	-
STGWT28IH125DF	Industrial	TO-3P	1250	375	true	60	30	60	30	2	1.2	-	0.72	-	-
STGYA50H120DF2	Industrial	Max247 long leads	1200	535	true	100	50	100	50	2.1	3.8	2	2.1	710	1700
STGYA50M120DF3	Industrial	Max247 long leads	1200	535	true	100	50	100	50	1.7	2.8	2	3.2	1100	2200
STGYA75H120DF2	Industrial	Max247 long leads	1200	750	true	150	75	150	75	2.1	3.8	4.3	3.9	980	2600
STGW15H120F2	Industrial	TO-247	1200	260	false	30	15	-	-	2.1	-	0.38	0.37	-	-

Power Transistors / IGBTs/STPOWER IGBTs Bare die up to 1700V

Part Number	Grade	V _{CE(s)} (V) max	I _c (A) (@ T _c =100°C) max	V _{CE(sat)} (V) typ	Q _g (nC) typ	E _{off} (mJ) typ	Die size (mm ²)	t _{sc}
STG15M120F3D7	Industrial	1200	15	1.85	53	0.85	19.36	Yes
STG15M120F3D8	Industrial	1200	15	1.85	53	0.85	19.36	No
STG15M65F2D7	Industrial	650	15	1.55	45	0.45	9.24	Yes
STG200G65FD8AG	Automotive	650	200	1.8	701	6.23	19.8	-
STG200M65F2D8AG	Automotive	650	200	1.55	650	5.5	99.54	Yes
STG20M65F2D7	Industrial	650	20	1.55	63	0.56	11.95	Yes
STG25H120F2D7	Industrial	1200	25	2.1	100	0.7	27.54	Yes
STG25M120F3D7	Industrial	1200	25	1.85	85	1.3	28.28	Yes
STG30M65F2D7	Industrial	650	30	1.55	80	0.96	16.56	Yes
STG40M120F3D7	Industrial	1200	40	1.85	125	2.25	41.55	Yes
STG50M120F3D7	Industrial	1200	50	1.7	194	3.2	51.84	Yes
STG50M170F3D7	Industrial	1700	50	2	225	10	67.65	Yes
STG60H65FBD7	Industrial	650	60	1.65	306	0.63	31	-
STG75M120F3D7	Industrial	1200	75	1.85	350	4.2	75.16	Yes
STG8M120F3D7	Industrial	1200	8	1.85	32	0.37	11.83	Yes
STG80H65FBD7	Industrial	650	80	1.6	414	1.5	40.95	No

Power Bipolar

Overview

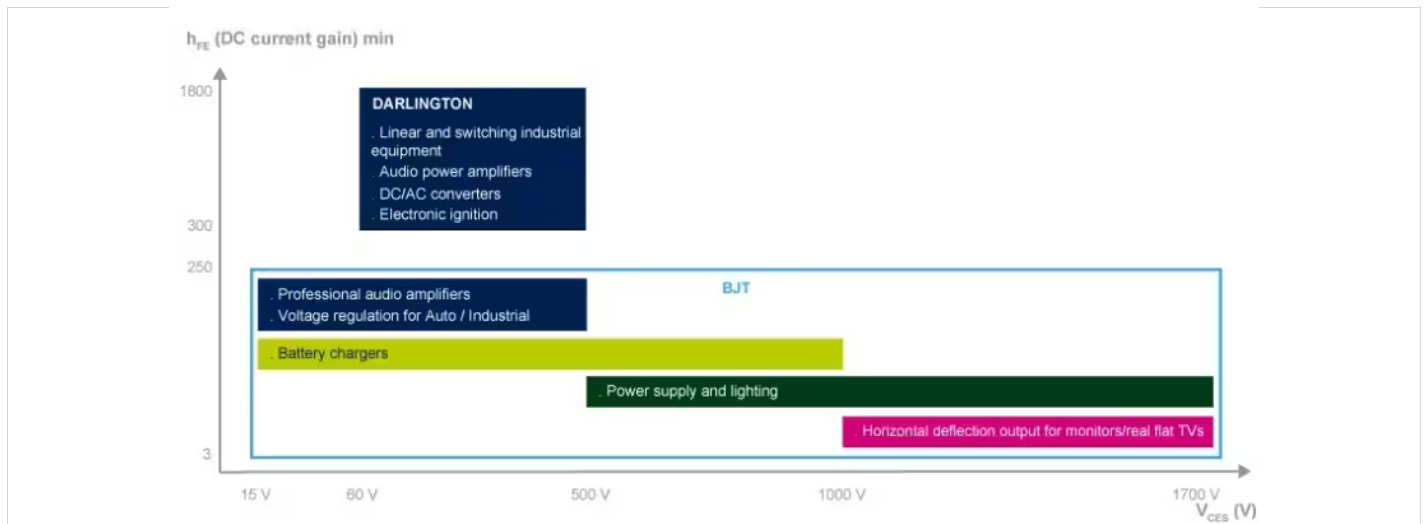
ST's broad range of power bipolar junction transistors (BJT) will give you the perfect fit for your energy-efficient designs. The range includes Darlington transistors and BJTs with a V_{CES} from 15 V to 1700 V. Power bipolar belong to the **STPOWER** family.

Key features of ST's bipolar NPN / PNP transistors

- Fast switching times and very low saturation voltage resulting in reduced switching and conduction losses
- Integrated diode versions for reduced component count
- Well-controlled h_{FE} parameter for increased reliability
- Best cost-performance ratio

These power bipolar transistors are available in both NPN and PNP polarity and they are offered in a large variety of SMD and through all packages.

Our wide **STPOWER** product portfolio, combined with state-of-the-art packaging and protections for high reliability and safety, helps designers find the right solutions for customized, high-efficiency applications that will last a long lifetime.



Automotive-grade high voltage ignition coil driver

Developed in multi-epitaxial planar technology, this NPN Darlington transistor is specifically designed for use as an electronic ignition power actuator in an automotive environment. However, its ruggedness makes it a good solution for power actuators in any operating condition.

With a collector-emitter voltage (V_{CES}) of 500 V and a collector current (I_C) of 15 A, it is available in TO-220 (BU931T) and TO-247 (BU931P) packages.

Main features:

- AEC-Q101 qualified
- Very rugged bipolar technology
- High operating junction temperature

Power Transistors / Power Bipolar/500V to 1000V Transistors

Part Number	Grade	Package	Transistor Polarity	Collector-Emitter Voltage (V) max	Collector Current (A) max	P _{TOT} (W) max	Dc Current Gain min	Dc Current Gain max	Test Condition for hFE (IC)	Test Condition for hFE (VCE) (V) spec	V _{CE(sat)} (V) max	Test Condition for VCE(sat) - IC	Test Condition for VCE(sat) - IB (mA) spec
BU931P	Automotive	TO-247	NPN	500	15	135	300	-	5	10	1.8	10	250
BU941ZPFI	Automotive	TO-3PF	NPN	500	15	65	300	-	5	10	2	12	300
BU941ZT	Automotive	TO-220	NPN	500	15	150	300	-	5	5	1.8	10	250
BUF420AW	Industrial	TO-247	NPN	1000	7	200	-	-	-	-	2	20	4000
BUL128D-B	Industrial	TO-220	NPN	700	4	70	12	32	2	5	1.5	2.5	500
BUL138	Industrial	TO-220	NPN	800	5	80	8	40	2	5	1	4	1000
BUL38D	Industrial	TO-220	NPN	800	5	80	12	32	2	5	1.1	3	750
BUL49D	Industrial	TO-220	NPN	850	5	80	4	10	7	10	1.2	4	800
BUL58D	Industrial	TO-220	NPN	800	8	85	5	-	5	5	2	5	1000
BULD118D	Industrial	IPAK	NPN	700	2	20	10	50	0.500	5	1.5	2	400
BUTW92	Industrial	TO-247	NPN	500	60	180	9	-	60	3	1	60	15000
BUV48A	Industrial	TO-247	NPN	1000	15	125	8	-	8	5	1.5	8	1600
BUX87	Industrial	SOT-32	NPN	1000	0.5	40	12	-	0.040	5	1	0.200	20
BUXD87	Industrial	DPAK	NPN	1000	0.5	20	12	-	0.040	5	1	0.200	20
ST13003	Industrial	SOT-32	NPN	700	1.5	40	5	25	1	2	1.5	1.5	500
ST13003-K	Industrial	SOT-32	NPN	700	1.5	40	5	25	1	2	1.5	1.5	500
ST13005	Industrial	TO-220	NPN	700	4	75	8	40	2	5	1	4	1000
ST13007	Industrial	TO-220	NPN	700	8	80	5	30	5	5	3	8	2000
ST13007D	Industrial	TO-220	NPN	700	8	80	8	25	5	5	2	8	2000
ST13009	Industrial	TO-220	NPN	700	12	100	10	30	8	5	2.5	12	3000
ST901T	Industrial	TO-220	NPN	500	4	100	1800	3800	2	2	2	2	20
STB13007DT4	Industrial	D2PAK	NPN	700	8	80	8	25	5	5	2	8	2000
STD13003	Industrial	DPAK	NPN	700	1.5	20	5	25	1	2	3	1.5	500
STD901T	Industrial	DPAK	NPN	500	4	35	1800	3800	2	2	2	2	20
STL128DN	Industrial	DPAK	NPN	700	4	60	8	24	2	5	1	2	400
STN2580	Industrial	SOT-223	NPN	800	1	1.6	60	-	0.25	5	1	1	200
STN83003	Industrial	SOT-223	NPN	700	1.5	1.6	16	32	0.350	5	0.5	0.5	100
STN9260	Industrial	SOT-223	PNP	600	0.5	1.6	50	-	0.020	5	1	0.100	10
STN93003	Industrial	SOT-223	PNP	500	1.5	1.6	16	32	0.350	5	0.5	0.500	100
STN9360	Industrial	SOT-223	PNP	600	0.5	1.6	120	-	0.02	5	0.5	0.1	10
STR1550	Industrial	SOT-23	NPN	500	0.5	0.5	100	300	0.05	10	0.5	0.05	0.01
STR2550	Industrial	SOT-23	PNP	500	0.5	0.5	100	300	0.05	10	0.5	0.05	0.01
STU13005N	Industrial	IPAK	NPN	700	3	30	10	30	1	5	5	3	750
STX13003	Industrial	TO-92	NPN	700	1	1.5	5	25	1	2	1.5	1.5	500
STX616	Industrial	TO-92	NPN	980	1.5	2.8	4	-	1.5	4	1	1	200
STX93003	Industrial	TO-92	PNP	500	1	1.5	16	32	0.35	5	0.5	0.5	100
TIP50	Industrial	TO-220	NPN	500	1	40	30	150	1	10	1	1	200
BU931T	Automotive	TO-220	NPN	500	10	125	300	-	5	10	1.8	10	250

Power Transistors / Power Bipolar / < 500V Transistors

Part Number	Grade	Package	Transistor Polarity	Collector-Emitter Voltage (V) max	Collector Current (A) max	P _{TOT} (W) max	Dc Current Gain min	Dc Current Gain max	Test Condition for hFE (IC)	Test Condition for hFE (VCE) (V) spec	V _{CE(sat)} (V) max	Test Condition for VCE(sat) - IC	Test Condition for VCE(sat) - IB (mA) spec
2SD1047	Industrial	TO-3P	NPN	200	12	100	60	200	1	5	0.7	7	700
2SD882	Industrial	SOT-32	NPN	60	3	12.5	100	300	0.100	2	1.1	3	150
2ST31A	Industrial	TO-220	NPN	60	3	40	25	-	1	4	1.2	3	375
2STBN15D100	Industrial	D2PAK	NPN	100	12	70	750	-	3	3	1.3	4	4
2STD1665	Industrial	DPAK	NPN	150	6	15	150	350	2	1	0.6	6	150
2STF1360	Industrial	SOT-89	NPN	80	3	1.4	160	400	1	2	0.5	3	150
2STF2360	Industrial	SOT-89	PNP	60	3	1.4	160	400	1	2	0.5	3	150
2STF2550	Industrial	SOT-89	PNP	50	5	1.4	110	350	2	2	0.55	3	300
2STN1360	Industrial	SOT-223	NPN	60	3	1.6	160	-	1	2	0.5	3	150
2STN1550	Industrial	SOT-223	NPN	50	5	1.6	135	400	2	2	0.45	3	300
2STN2540	Industrial	SOT-223	PNP	40	5	1.6	50	-	5	2	0.45	5	500
2STP535FP	Industrial	TO-220FP	NPN	180	8	37	1000	20000	3	4	2	3	6
2STR1160	Industrial	SOT-23	NPN	60	1	0.5	180	560	0.500	2	1.25	1	100
2STR1215	Industrial	SOT-23	NPN	15	1.5	0.5	200	560	0.5	2	0.5	1	100
2STR2160	Industrial	SOT-23	PNP	60	1	0.5	250	-	0.5	2	0.15	0.5	50
2STR2230	Industrial	SOT-23	PNP	30	1.5	0.5	170	560	0.500	2	0.8	2	200
BCP53-16	Industrial	SOT-223	PNP	80	1	1.4	100	-	0.15	2	0.5	0.5	50
BCP56-16	Industrial	SOT-223	NPN	80	1	1.6	100	-	0.15	2	0.5	0.5	50
BD135	Industrial	SOT-32	NPN	45	1.5	12.5	100,40	250	0.15	2	0.5	0.5	50
BD136	Industrial	SOT-32	PNP	45	1.5	12.5	100,40	250	0.15	2	0.5	0.5	50
BD139	Industrial	SOT-32	NPN	80	1.5	12.5	100,40,63	160,250	0.15	2	0.5	0.5	50
BD140	Industrial	SOT-32	PNP	80	1.5	12.5	100,40	250	0.15	2	0.5	0.5	50
BD237	Industrial	SOT-32	NPN	80	2	25	25	-	1	2	0.6	1	100
BD239C	Industrial	TO-220	NPN	100	2	30	15	-	1	4	0.7	1	200
BD241C	Industrial	TO-220	NPN	100	3	40	25	-	1	4	1.2	3	600
BD437	Industrial	SOT-32	NPN	45	4	36	40	-	2	1	0.6	2	200
BD438	Industrial	SOT-32	PNP	45	4	36	40	-	2	1	0.6	2	200
BD677	Industrial	SOT-32	NPN	60	4	40	750	-	1.5	3	2.5	1.5	30
BD677A	Industrial	SOT-32	NPN	60	4	40	750	-	2	3	2.8	2	40
BD678	Industrial	SOT-32	PNP	60	4	40	750	-	1.5	3	2.5	1.5	30
BD679	Industrial	SOT-32	NPN	80	4	40	750	-	1.5	3	2.5	1.5	30
BD679A	Industrial	SOT-32	NPN	80	4	40	750	-	2	3	2.8	2	40
BD680	Industrial	SOT-32	PNP	80	4	40	750	-	1.5	3	2.5	1.5	30
BD681	Industrial	SOT-32	NPN	100	4	40	750	-	1.5	3	2.5	1.5	30
BD682	Industrial	SOT-32	PNP	100	4	40	750	-	1.5	3	2.5	1.5	30
BD911	Industrial	TO-220	NPN	100	15	90	15	150	5	4	1	5	500
BD912	Industrial	TO-220	PNP	100	15	90	15	150	5	4	1	5	500
BDW93C	Industrial	TO-220	NPN	100	12	80	750	20000	5	3	3	10	100

BDW93CFP	Industrial	TO-220FP	NPN	100	12	33	750	20000	5	3	3	10	100
BDW94C	Industrial	TO-220	PNP	100	12	80	750	20000	5	3	3	10	100
BDW94CFP	Industrial	TO-220FP	PNP	100	12	33	750	20000	5	3	3	10	100
BDX33C	Industrial	TO-220	NPN	100	10	70	750	-	3	3	2.5	3	6
BDX34C	Industrial	TO-220	PNP	100	10	70	750	-	3	3	2.5	3	6
BDX53B	Industrial	TO-220	NPN	80	8	60	750	-	3	3	2	3	12
BDX53C	Industrial	TO-220	NPN	100	8	60	750	-	3	3	2	3	12
BDX54C	Industrial	TO-220	NPN	100	8	60	750	-	3	3	2	3	12
D44H11	Industrial	TO-220	NPN	80	10	50	40	-	4	1	1	8	400
D44H8	Industrial	TO-220	NPN	60	10	50	40	-	4	1	1	8	400
D45H11	Industrial	TO-220	PNP	80	10	50	40	-	4	1	1	8	400
D45H11FP	Industrial	TO-220FP	PNP	80	10	36	40	-	4	1	1	8	400
MJB44H11T4-A	Automotive	D2PAK	NPN	80	10	50	40	-	4	1	1	8	400
MJD112	Industrial	DPAK	NPN	100	2	20	1000	12000	2	3	3	4	40
MJD117	Industrial	DPAK	PNP	100	2	20	1000	12000	2	3	3	4	40
MJD122	Industrial	DPAK	NPN	100	8	20	1000	12000	4	4	4	8	80
MJD127	Industrial	DPAK	PNP	100	8	20	1000	12000	4	4	4	8	80
MJD305T4	Industrial	DPAK	NPN	60	5	20	20	100	4	4	1.1	4	400
MJD31C	Industrial	DPAK	NPN	100	3	15	10	50	3	4	1.2	3	375
MJD31CT4-A	Automotive	DPAK	NPN	100	3	15	10	50	3	4	1.2	3	375
MJD32CT4-A	Automotive	DPAK	PNP	100	3	15	10	50	3	4	1.2	3	375
MJD340	Industrial	DPAK	NPN	300	0.5	15	30	240	0.050	10	-	-	-
MJD350	Industrial	DPAK	PNP	300	0.5	15	30	240	0.050	10	-	-	-
MJD44H11T4	Industrial	DPAK	NPN	80	8	20	40	-	4	1	1	8	400
MJD44H11T4-A	Automotive	DPAK	NPN	80	8	20	40	-	4	1	1	8	400
MJD45H11T4	Industrial	DPAK	PNP	80	8	20	40	-	4	1	1	8	400
MJD47T4	Industrial	DPAK	NPN	250	1	15	30	150	0.3	10	1	1	200
MJE2955T	Industrial	TO-220	PNP	60	10	75	20	70	4	4	1.1	4	400
MJE3055T	Industrial	TO-220	NPN	60	10	75	20	70	4	4	1.1	4	400
MJE340	Industrial	SOT-32	NPN	300	0.5	20	30	240	0.05	10	-	-	-
MJE350	Industrial	SOT-32	PNP	300	0.5	20	30	240	0.05	10	-	-	-
STD1802	Industrial	DPAK	NPN	80	3	15	200	400	0.100	2	0.4	3	150
STD888	Industrial	DPAK	PNP	45	5	15	100	300	0.500	1	0.7	5	250
STN790A	Industrial	SOT-223	PNP	40	3	1.6	100	400	0.500	2	0.7	3	100
STN851	Industrial	SOT-223	NPN	60	5	1.6	150	350	2	1	250	2	50
STN851-A	Industrial	SOT-223	NPN	60	5	1.6	150	350	2	1	250	2	50
STN951	Industrial	SOT-223	PNP	60	5	1.6	150	350	2	1	0.5	5	200
STSA1805	Industrial	TO-92	NPN	150	5	1.1	200	400	0.100	2	0.6	5	200
STT818B	Industrial	SOT23-6L	PNP	30	3	1.2	100	-	2.5	3	0.5	2	20
TIP102	Industrial	TO-220	NPN	100	8	80	1000	20000	3	4	2.5	8	80
TIP105	Industrial	TO-220	PNP	60	8	80	1000	18000	3	4	2.5	8	80
TIP107	Industrial	TO-220	PNP	100	8	80	1000	20000	3	4	2.5	8	80

TIP112	Industrial	TO-220	NPN	100	2	50	500	-	2	4	2.5	2	8
TIP115	Industrial	TO-220	PNP	60	2	50	500	-	2	4	2.5	2	8
TIP120	Industrial	TO-220	NPN	60	5	65	1000	-	3	3	2	3	12
TIP121	Industrial	TO-220	NPN	80	5	65	1000	-	3	3	2	3	12
TIP122	Industrial	TO-220	NPN	100	5	65	1000	-	3	3	2	3	12
TIP125	Industrial	TO-220	PNP	60	5	65	1000	-	3	3	2	3	12
TIP127	Industrial	TO-220	PNP	100	5	65	1000	-	3	3	2	3	12
TIP132	Industrial	TO-220	NPN	100	8	70	1000	15000	4	4	4	6	30
TIP137	Industrial	TO-220	PNP	100	8	70	1000	15000	4	4	4	6	30
TIP142	Industrial	TO-247	NPN	100	10	125	500	-	10	4	3	10	40
TIP142T	Industrial	TO-220	NPN	100	10	90	500	-	10	4	3	10	40
TIP147	Industrial	TO-247	PNP	100	10	125	500	-	10	4	3	10	40
TIP147T	Industrial	TO-220	PNP	100	10	90	500	-	10	4	3	10	40
TIP2955	Industrial	TO-247	PNP	60	15	90	20	-	4	4	1.1	4	400
TIP29A	Industrial	TO-220	NPN	60	1	30	15	75	1	4	0.7	1	125
TIP29C	Industrial	TO-220	NPN	100	1	30	15	75	1	4	0.7	1	125
TIP3055	Industrial	TO-247	NPN	60	15	90	20	-	4	4	1.1	4	400
TIP31A	Industrial	TO-220	NPN	60	3	40	10	50	3	4	1.2	3	375
TIP31C	Industrial	TO-220	NPN	100	3	40	10	50	3	4	1.2	3	375
TIP32C	Industrial	TO-220	PNP	100	3	40	10	50	3	4	1.2	3	375
TIP35C	Industrial	TO-247	NPN	100	25	125	15	75	15	4	1.8	15	1500
TIP35CW	Industrial	TO-247	NPN	100	25	125	15	75	15	4	1.8	15	1500
TIP36C	Industrial	TO-247	PNP	100	25	125	15	75	15	4	1.8	15	1500
TIP41C	Industrial	TO-220	NPN	100	6	65	15	75	3	4	1.5	6	600
TIP42A	Industrial	TO-220	PNP	60	6	65	15	75	3	4	1.5	6	600
TIP42C	Industrial	TO-220	PNP	100	6	65	15	75	3	4	1.5	6	600
TIP47	Industrial	TO-220	NPN	350	1	40	30	150	1	10	1	1	200
STD1802T4-A	Automotive	DPAK	NPN	80	3	15	200	400	0.100	2	0.4	3	150
TIP35CP	Industrial	TO-3P	NPN	100	25	125	15	75	15	4	1.8	15	1500

Power Transistors / Power Bipolar/> 1000V Transistors

Part Number	Grade	Package	Transistor Polarity	Collector-Emitter Voltage (V) max	Collector Current (A) max	P _{tot} (W) max	Dc Current Gain min	Dc Current Gain max	Test Condition for hFE (IC)	Test Condition for hFE (VCE) (V) spec	V _{CE(sat)} (V) max	Test Condition for VCE(sat) - IC	Test Condition for VCE(sat) - IB (mA) spec
BU508AF	Industrial	TO-3PF	NPN	1500	8	50	10	30	0.100	5	1	4.500	1600
BU508AW	Industrial	TO-247	NPN	1500	8	125	10	30	0.100	5	1	4.500	1600
BUL1102E	Industrial	TO-220,TO-220FP	NPN	1100	8	70	12	20	2	5	1.5	2	400
BUL1203E	Industrial	TO-220	NPN	1200	5	100	9	28	2	5	1.5	3	1000
BUL216	Industrial	TO-220	NPN	1600	4	90	12	40	0.400	5	3	2	660
BUL7216	Industrial	TO-220	NPN	1600	3	80	4	11	2	5	3	0.800	80
BUL741	Industrial	TO-220	NPN	1050	2.5	60	25	50	0.450	3	1.5	2	600
BUL742C	Industrial	TO-220	NPN	1050	4	70	25	50	0.800	3	1.5	3.500	1000
BUL743	Industrial	TO-220	NPN	1200	12	100	24	45	2	3	1.5	10	2500
BULD741T4	Industrial	DPAK	NPN	1050	2.5	30	25	50	0.450	3	1.5	2	600
BULD742C	Industrial	DPAK	NPN	1050	4	54	25	50	0.800	3	1.5	3.500	1000
HD1750FX	Industrial	TO-3PF	NPN	1700	24	75	6.5	9.5	12	5	3	12	3000
MD1802FX	Industrial	TO-3PF	NPN	1500	10	57	5.5	8.5	5	5	1.5	5	1250
MD1803DFX	Industrial	TO-3PF	NPN	1500	10	57	5.5	7.5	5	5	2	5	1250
MD2001FX	Industrial	TO-3PF	NPN	1500	12	58	4.5	7	6	5	1.8	6	1500
ST1510FX	Industrial	TO-3PF	NPN	1500	12	62	6.5	9.5	6	5	2	6	1500
STN0214	Industrial	SOT-223	NPN	1400	0.2	1.6	-	-	-	-	0.3	0.100	20
STP03D200	Industrial	TO-220	NPN	2000	0.1	40	200	-	30	10	2	0.050	0.5

Power Transistors / Power Bipolar/Darlington

Part Number	Grade	Package	Transistor Polarity	Collector-Emitter Voltage (V) max	Collector Current (A) max	P _{TOT} (W) max	Dc Current Gain min	Dc Current Gain max	Test Condition for hFE (IC)	Test Condition for hFE (VCE) (V) spec	V _{CE(sat)} (V) max	Test Condition for VCE(sat) - IC	Test Condition for VCE(sat) - IB (mA) spec
2STBN15D100	Industrial	D2PAK	NPN	100	12	70	750	-	3	3	1.3	4	4
2STP535FP	Industrial	TO-220FP	NPN	180	8	37	1000	20000	3	4	2	3	6
BD677	Industrial	SOT-32	NPN	60	4	40	750	-	1.5	3	2.5	1.5	30
BD677A	Industrial	SOT-32	NPN	60	4	40	750	-	2	3	2.8	2	40
BD678	Industrial	SOT-32	PNP	60	4	40	750	-	1.5	3	2.5	1.5	30
BD679	Industrial	SOT-32	NPN	80	4	40	750	-	1.5	3	2.5	1.5	30
BD679A	Industrial	SOT-32	NPN	80	4	40	750	-	2	3	2.8	2	40
BD680	Industrial	SOT-32	PNP	80	4	40	750	-	1.5	3	2.5	1.5	30
BD681	Industrial	SOT-32	NPN	100	4	40	750	-	1.5	3	2.5	1.5	30
BD682	Industrial	SOT-32	PNP	100	4	40	750	-	1.5	3	2.5	1.5	30
BDW93C	Industrial	TO-220	NPN	100	12	80	750	20000	5	3	3	10	100
BDW93CFP	Industrial	TO-220FP	NPN	100	12	33	750	20000	5	3	3	10	100
BDW94C	Industrial	TO-220	PNP	100	12	80	750	20000	5	3	3	10	100
BDW94CFP	Industrial	TO-220FP	PNP	100	12	33	750	20000	5	3	3	10	100
BDX33C	Industrial	TO-220	NPN	100	10	70	750	-	3	3	2.5	3	6
BDX34C	Industrial	TO-220	PNP	100	10	70	750	-	3	3	2.5	3	6
BDX53B	Industrial	TO-220	NPN	80	8	60	750	-	3	3	2	3	12
BDX53C	Industrial	TO-220	NPN	100	8	60	750	-	3	3	2	3	12
BDX54C	Industrial	TO-220	NPN	100	8	60	750	-	3	3	2	3	12
BU931P	Automotive	TO-247	NPN	500	15	135	300	-	5	10	1.8	10	250
BU941ZPFI	Automotive	TO-3PF	NPN	500	15	65	300	-	5	10	2	12	300
BU941ZT	Automotive	TO-220	NPN	500	15	150	300	-	5	5	1.8	10	250
MJD112	Industrial	DPAK	NPN	100	2	20	1000	12000	2	3	3	4	40
MJD117	Industrial	DPAK	PNP	100	2	20	1000	12000	2	3	3	4	40
MJD122	Industrial	DPAK	NPN	100	8	20	1000	12000	4	4	4	8	80
MJD127	Industrial	DPAK	PNP	100	8	20	1000	12000	4	4	4	8	80
ST901T	Industrial	TO-220	NPN	500	4	100	1800	3800	2	2	2	2	20
STD901T	Industrial	DPAK	NPN	500	4	35	1800	3800	2	2	2	2	20
TIP102	Industrial	TO-220	NPN	100	8	80	1000	20000	3	4	2.5	8	80
TIP105	Industrial	TO-220	PNP	60	8	80	1000	18000	3	4	2.5	8	80
TIP107	Industrial	TO-220	PNP	100	8	80	1000	20000	3	4	2.5	8	80
TIP112	Industrial	TO-220	NPN	100	2	50	500	-	2	4	2.5	2	8
TIP115	Industrial	TO-220	PNP	60	2	50	500	-	2	4	2.5	2	8
TIP120	Industrial	TO-220	NPN	60	5	65	1000	-	3	3	2	3	12
TIP121	Industrial	TO-220	NPN	80	5	65	1000	-	3	3	2	3	12
TIP122	Industrial	TO-220	NPN	100	5	65	1000	-	3	3	2	3	12
TIP125	Industrial	TO-220	PNP	60	5	65	1000	-	3	3	2	3	12
TIP127	Industrial	TO-220	PNP	100	5	65	1000	-	3	3	2	3	12

TIP132	Industrial	TO-220	NPN	100	8	70	1000	15000	4	4	4	6	30
TIP137	Industrial	TO-220	PNP	100	8	70	1000	15000	4	4	4	6	30
TIP142	Industrial	TO-247	NPN	100	10	125	500	-	10	4	3	10	40
TIP142T	Industrial	TO-220	NPN	100	10	90	500	-	10	4	3	10	40
TIP147	Industrial	TO-247	PNP	100	10	125	500	-	10	4	3	10	40
TIP147T	Industrial	TO-220	PNP	100	10	90	500	-	10	4	3	10	40
BU931T	Automotive	TO-220	NPN	500	10	125	300	-	5	10	1.8	10	250

Power MOSFETs

Overview

The ST **Power MOSFET** portfolio offers a broad range of breakdown voltages from -100 to 1700 V, combining state-of-the-art packaging with low gate charge and low on-resistance. Our process technology ensures high-efficiency solutions through enhanced power handling with MDmesh high-voltage power MOSFETs and STripFET low-voltage power MOSFETs. ST Power MOSFETs belong to the STPOWER family.



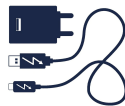
Applications



Server & Telecom Power



Microinverters



Fast charges



Automotive



Home and professional appliance

Product types

ST offers an impressive range of Power MOSFETs for any voltage range in industrial and automotive applications, such as switch mode power supplies (SMPS), lighting, motor control, energy generation & electro mobility, chassis & safety, and body & convenience.

20V-30V

20V-30V low-voltage MOSFETs

Discover our STripFET low-voltage power MOSFETs, with low gate charge and low on-resistance, combined with appropriated package solution.

>30V-200V

STPOWER N-channel MOSFETs > 30V to 200V

Discover our medium-voltage STripFET N-channel power MOSFET portfolio, available in a wide range of miniature and high-power packages.

>200V-700V

STPOWER N-channel MOSFETs > 200V to 700V

ST's latest super-junction technology optimized for resonant topologies, suitable for high power applications.

>700V-1700V

> 700V-1700V HV and VHV MOSFETs

Discover our MDmesh high voltage and very high voltage power MOSFETs, with enhanced power-handling capability, resulting in high-efficiency solutions.

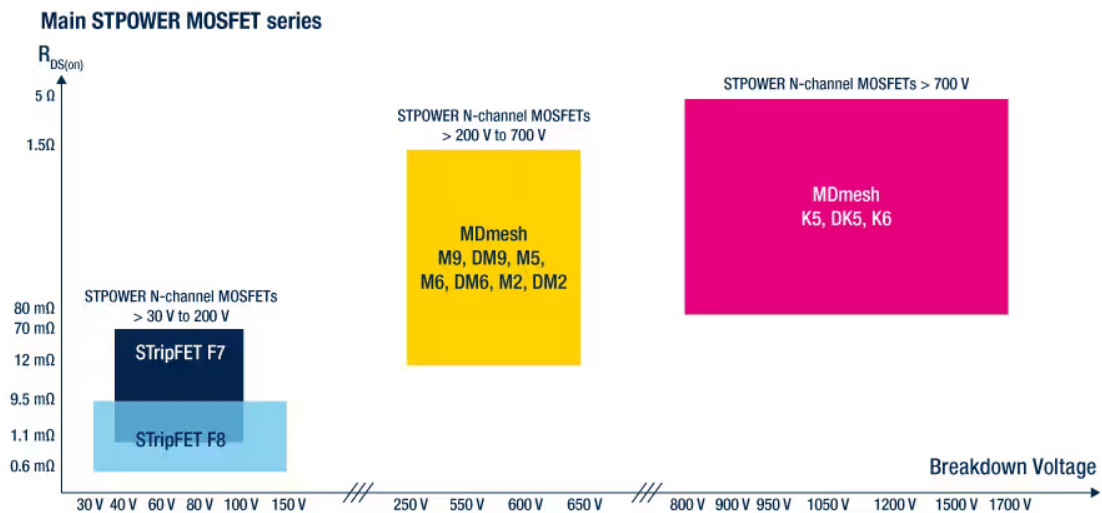
P-channel

P-channel MOSFETs

Discover our STRipFET P-channel MOSFETs, available in very small form factor packages and recently enlarged with new trench-gate devices.

Discover our portfolio

The wide STPOWER product portfolio, with state-of-the-art packaging and protections for high reliability and safety, helps designers find the right solutions for customized, high-efficiency applications with long lifetime.



Benefits

- -100 to 1700 V breakdown voltage range
- More than 30 package options for low voltage to very-high-voltage Power MOSFETs, including:
 - Breakthrough top-side cooling HU3PAK package allowing higher power density and improved thermal management
 - 4-lead TO-247 with dedicated control pin for increased switching efficiency
 - H2PAK for high-current capability
 - Highly innovative surface-mount leadless TO-LL
- 1-mm-high surface-mount PowerFLAT family (2x2 to 8x8 mm) with excellent thermal performance thanks to large metal drain pad
- Improved gate charge and lower on-state resistance to meet today's challenging efficiency requirements
- Intrinsic fast body diode option for selected product lines
- Wide portfolio of automotive-grade power MOSFETs
- Application-oriented technologies

Automotive MOSFETs in tiny 5x6 mm dual-side cooling package

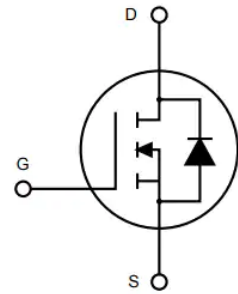
ST has extended its offering of AEC-Q101 MOSFETs with the introduction of two 40 V devices in the advanced PowerFLAT™ 5x6 dual-side cooling (DSC) package with wettable flanks. The STLD200N4F6AG and STLD125N4F6AG, with a maximum on-resistance of 1.5 mΩ and 3.0 mΩ respectively, ensure high efficiency and help simplify system thermal management. The 0.8 mm-high PowerFLAT 5x6 DSC retains the footprint and thermally efficient bottom-side design of the standard wettable flank package, while it exposes the top-side source electrode to further enhance heat dissipation. This allows a higher current rating that increases power density, enabling designers to build smaller ECUs without trading off functionality, performance, or reliability.

Power MOSFET Basics

MOSFET stands for Metal Oxide Semiconductor Field Effect Transistor. It's a voltage controlled device with 3 terminals:

- **Gate** (electrically insulated from the semiconductor)
- **Drain**
- **Source**

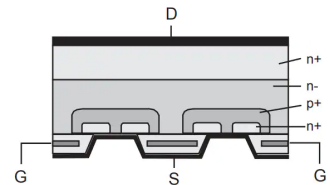
When a voltage applied between the **Gate** and the **Source** reaches a certain threshold ($V_{GS(th)}$ or *threshold G-S voltage*), the device is able to support current conduction between the **Drain** and the **Source** (I_D or *drain current*).



MOSFET circuit symbol

When a voltage applied between the **Gate** and the **Source** is below $V_{GS(th)}$, the device will withstand a voltage up to BV_{DSS} (or *breakdown voltage*).

MOSFETs can be used as a **signal amplifier** (linear operation) or **as a switch** in power applications.



MOSFET simplified structure

MOSFET parameters

Like many other types of semiconductor power switches, the main parameters of a MOSFET, usually available in most datasheets, are:

- **$R_{DS(on)}$ (on-state resistance)**: electrical resistance when the device is set in on state. The lower is $R_{DS(on)}$, the lower is the conduction loss due to power dissipation when the current is flowing.
- **BV_{DSS} (breakdown voltage)**: maximum drain-to-source voltage that the device is able to sustain when in off state.
- **Q_G (total gate charge)**: amount of electric charge required to the gate driver to turn on/off the device itself. Q_G impacts directly the efficiency (the lower, the better).

The product of $R_{DS(on)}$ and Q_G is known as the **MOSFET Figure of Merit (FOM)**.

Other important parameters are **intrinsic capacitances** that can affect the switching times and voltage spikes, and **body drain diode** when device is used as power diode, like in synchronous free-wheeling operation mode.

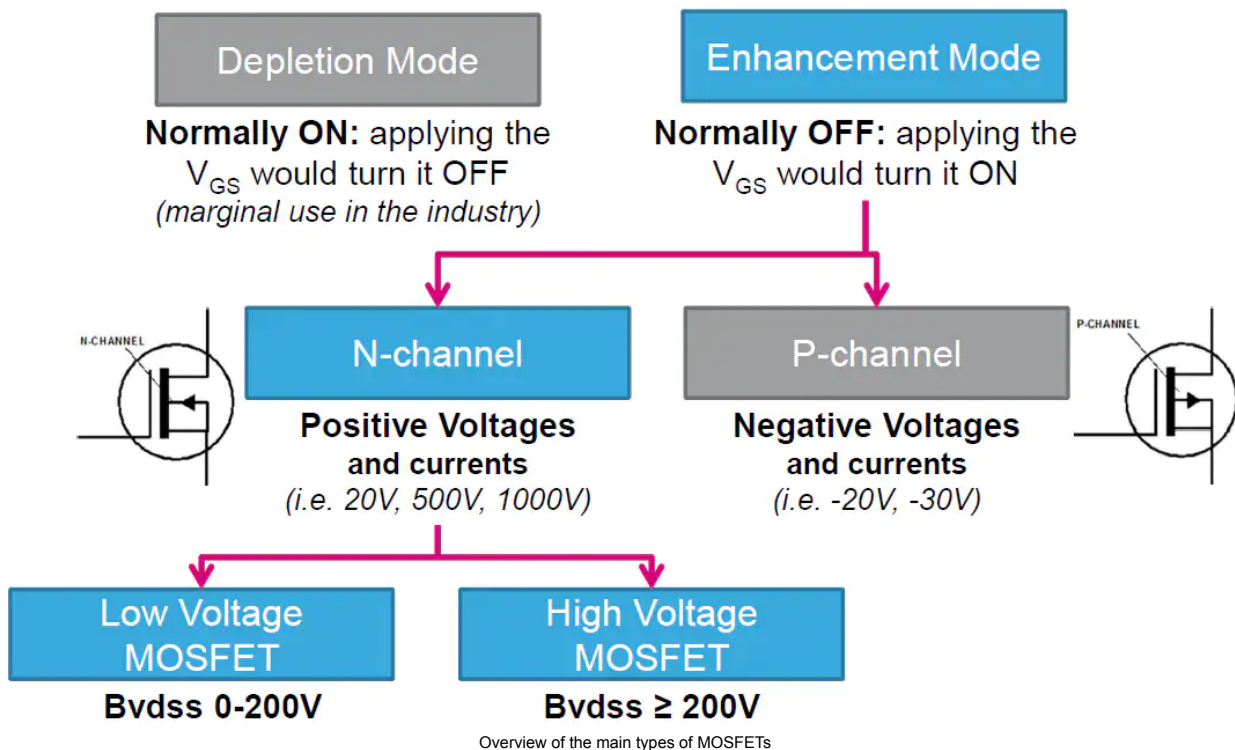
Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$V_{(BR)DSS}$	Drain-source breakdown voltage	$I_D = 250\mu A, V_{GS} = 0$	75			V
I_{DSS}	Zero gate voltage drain current ($V_{GS} = 0$)	$V_{DS} = \text{max ratings}$ $V_{DS} = \text{max ratings}, T_C = 125^\circ C$			1 10	μA μA
I_{GSS}	Gate-body leakage current ($V_{DS} = 0$)	$V_{GS} = \pm 20V$			± 100	nA
$V_{GS(th)}$	Gate threshold voltage	$V_{DS} = V_{GS}, I_D = 250\mu A$	2		4	V
$R_{DS(on)}$	Static drain-source on resistance	$V_{GS} = 10V, I_D = 70A$		0.0065	0.0075	Ω

Main types of power MOSFETs

MOSFETs can be of different types, including:

- **Depletion Mode:** Normally ON. Applying the V_{GS} would turn it OFF.
- **Enhancement Mode:** Normally OFF. Applying the V_{GS} would turn it ON.
- **N-channel MOSFETs:** positive voltages and currents.
- **P-channel MOSFETs:** negative voltages and currents.
- **Low voltage MOSFETs:** BV_{DSS} from 0 V to 200 V.
- **High voltage MOSFETs:** BV_{DSS} greater than 200 V.

N-channel enhancement-mode MOSFETs are the most popular type used in power switching circuits because of their low $R_{DS(on)}$ (on-state resistance) compared to P-channel MOSFETs.



Power MOSFET Applications

Power MOSFETs play an important role in all applications handling Power.

The main applications of **high voltage MOSFETs** include:

The main applications of **low voltage MOSFETs** include:

- Switch Mode Power Supplies (SMPS)
- Residential, commercial, architectural and street lighting
- DC-DC converters
- Motor control
- Automotive applications

ST's high voltage MOSFET portfolio offers a broad range of breakdown voltages up to 1700 V, with low gate charge and low on-resistance, combined with state-of-the-art packaging. ST's MDmesh™ high-voltage MOSFETs technology has enhanced power-handling capability, resulting in high-efficiency solutions.

- Switch, buck and synchronous rectification
- Uninterruptible Power Supplies (UPS)
- Small motor control
- Switch Mode Power Supplies (SMPS)
- Power-Over-Ethernet (PoE)
- Solar inverters
- Automotive applications

ST's low voltage MOSFET portfolio offers a broad range of breakdown voltages from -100 V to 120 V, with low gate charge and low on-resistance, combined with state-of-the-art packaging.



Power Transistors / Power MOSFETs/STPOWER N-channel MOSFETs 20 V to 30 V

Part Number	Package	Technology	Grade	V _{DSS} (V)	R _{DS(on)} (Ω) (@ V _{CC} =2.7V) max	R _{DS(on)} (Ω) (@ 4.5/5V) max	R _{DS(on)} (Ω) (@ V _{GS} = 10V) max	Drain Current (Dc) (A) max	P _{TOT} (W) max	Q _g (nC) typ
STB155N3LH6	D2PAK	STripFET H6/F6	Automotive	30	-	0.004	0.003	80	110	40
STB200NF03	D2PAK	STripFET NF/NS	Automotive	30	-	-	0.0036	120	300	113
STD155N3LH6	DPAK	-	Automotive	30	-	0.004	0.003	80	110	40
STD18NF03L	DPAK	STripFET NF/NS	Automotive	30	-	0.06	0.05	17	30	4.8
STD80N3LL	DPAK	STripFET H6/F6	Industrial	30	-	0.0065	0.0052	120	133	40
STD86N3LH5	DPAK	STripFET H5/F5	Automotive	30	-	0.0065	0.005	80	70	14
STD95N2LH5	DPAK	STripFET H5/F5	Industrial	25	-	0.006	0.0045	80	70	13.4
STD96N3LLH6	DPAK	STripFET H6/F6	Automotive	30	-	0.007	0.0042	80	70	20
STH300NH02L-6	H2PAK-6	STripFET F3	Automotive	24	-	0.0015	0.0012	180	300	109
STL10N3LLH5	PowerFLAT 3.3x3.3	STripFET H5/F5	Automotive	30	-	0.022	0.019	9	2	5
STL11N3LLH6	PowerFLAT 3.3x3.3	STripFET H6/F6	Industrial	30	-	0.0095	0.0075	11	2	17
STL19N3LLH6AG	PowerFLAT 5x6 WF	STripFET H6/F6	Automotive	30	-	0.05	0.033	10	30	3.7
STL40DN3LLH5	PowerFLAT 5x6 double island WF	STripFET H5/F5	Automotive	30	-	0.025	0.018	11	4.7	4.5
STL56N3LLH5	PowerFLAT 5x6	STripFET H5/F5	Industrial	30	-	0.0112	0.009	56	62.5	6.5
STL58N3LLH5	PowerFLAT 5x6 WF	STripFET H5/F5	Automotive	30	-	0.0112	0.009	56	62.5	6.5
STL66DN3LLH5	PowerFLAT 5x6 double island WF	STripFET H5/F5	Automotive	30	-	0.079	0.065	20	4.7	12
STL66N3LLH5	PowerFLAT 5x6 WF	STripFET H5/F5	Automotive	30	-	0.0075	0.0058	80	72	12
STL6N2VH5	PowerFLAT 2x2	STripFET H5/F5	Industrial	20	0.055	0.035	-	6	2.4	6
STL6N3LLH6	PowerFLAT 2x2	STripFET H6/F6	Industrial	30	-	0.04	0.025	6	2.4	3.6
STL86N3LLH6AG	PowerFLAT 5x6 WF	STripFET H6/F6	Automotive	30	-	0.0076	0.0052	80	60	17
STL90N3LLH6	PowerFLAT 5x6	STripFET H6/F6	Industrial	30	-	0.0073	0.0045	90	60	17
STN4NF03L	SOT-223	STripFET NF/NS	Industrial	30	-	-	0.05	4	2.5	6.5
STP105N3LL	TO-220	STripFET H6/F6	Industrial	30	-	0.0045	0.0035	80	140	42
STP160N3LL	TO-220	STripFET H6/F6	Industrial	30	-	0.0042	0.0032	120	136	42
STP200N3LL	TO-220	STripFET H6/F6	Industrial	30	-	0.0031	0.0024	120	133	40
STR2N2VH5	SOT-23	STripFET H5/F5	Industrial	20	0.055	0.035	-	6	2.4	6
STS6NF20V	SO-8	STripFET NF/NS	Industrial	20	0.045	0.04	0.045	6	2.5	8.5
STS8DN3LLH5	SO-8	STripFET H5/F5	Industrial	30	-	0.022	0.019	10	2.7	5.4

STT6N3LLH6	SOT23-6L	STripFET H6/F6	Industrial	30	-	0.036	0.025	6	1.6	3.6
STD100N3LF3	DPAK	-	Automotive	30	-	0.01	0.0055	80	110	20
STP200NF03	TO-220	-	Industrial	30	-	-	0.0036	120	300	113
STP40NF03L	TO-220	-	Industrial	30	-	-	0.022	40	70	18
STP90NF03L	TO-220	-	Industrial	30	-	-	0.0065	90	150	35
STS10DN3LH5	SO-8	-	Industrial	30	-	0.028	0.021	10	2.5	4.6
STS10N3LH5	SO-8	-	Industrial	30	-	-	0.021	10	2.5	4.6
STS2DNF30L	SO-8	-	Industrial	30	-	-	0.11	3	2	4.5
STS8DNF3LL	SO-8	-	Industrial	30	-	0.024	0.02	8	2	12.5
STT5N2VH5	SOT23-6L	-	Industrial	20	0.055	0.035	-	6	2.4	6

Power Transistors / Power MOSFETs/STPOWER N-channel MOSFETs > 200 V to 700 V

Part Number	Grade	Package	VDSS (V)	$R_{DS(on)}$ (Ω) (@ $V_{GS} = 10V$) max	Drain Current (Dc) (A) max	P_{TOT} (W) max	Q_g (nC) typ	Features	Reverse Recovery Time (ns) typ	Q_{rr} (nC) typ	Peak Reverse Current (A) nom
SH32N65DM6AG	Automotive	ACEPACK SMIT	650	0.097	32	208	47	Fast recovery diode	125	520	7.5
SH63N65DM6AG	Automotive	ACEPACK SMIT	650	0.064	53	424	80	Fast recovery diode	162	950	10.7
SH68N65DM6AG	Automotive	ACEPACK SMIT	650	0.041	64	379	116	Fast recovery diode	166	1100	11
STB10N60M2	Industrial	D2PAK	600	0.6	7.5	85	13.5	-	-	-	-
STB10NK60Z	Industrial	D2PAK	600	0.75	10	115	50	-	-	-	-
STB11N65M5	Industrial	D2PAK	650	0.48	9	85	17	-	-	-	-
STB11NK40ZT4	Industrial	D2PAK	400	0.55	9	110	32	-	-	-	-
STB11NM60T4	Industrial	D2PAK	600	0.45	11	160	30	-	-	-	-
STB12N60DM2AG	Automotive	D2PAK	600	0.43	10	125	14.5	Fast recovery diode	80	250	5
STB12NM50T4	Industrial	D2PAK	500	0.35	12	160	28	-	-	-	-
STB13N60M2	Industrial	D2PAK	600	0.38	11	110	17	-	-	-	-
STB13NK60ZT4	Industrial	D2PAK	600	0.55	13	150	66	-	-	-	-
STB13NM60N	Industrial	D2PAK	600	0.36	11	90	27	-	-	-	-
STB14NK60ZT4	Industrial	D2PAK	600	0.5	12	160	75	-	-	-	-
STB14NM50N	Industrial	D2PAK	500	0.32	12	90	27	-	-	-	-
STB18N60DM2	Industrial	D2PAK	600	0.295	12	110	20	Fast recovery diode	125	675	11
STB18N60M2	Industrial	D2PAK	600	0.28	13	110	21.5	-	-	-	-
STB18N60M6	Industrial	D2PAK	600	0.28	13	110	16.8	-	-	-	-
STB18N65M5	Industrial	D2PAK	650	0.22	15	110	34	-	-	-	-
STB18NF25	Automotive	D2PAK	250	0.165	17	110	29.3	-	-	-	-
STB18NF30	Automotive	D2PAK	330	0.18	18	150	44	-	-	-	-
STB20N65M5	Industrial	D2PAK	650	0.19	18	130	36	-	-	-	-
STB20NM50	Industrial	D2PAK	500	0.25	20	192	40	-	-	-	-
STB20NM60	Industrial	D2PAK	600	0.29	20	192	39	-	-	-	-
STB21N65M5	Industrial	D2PAK	650	0.179	17	125	50	-	-	-	-
STB22N60DM6	Industrial	D2PAK	600	0.24	15	130	20.6	Fast recovery diode	88	299	6.8
STB23NM50N	Industrial	D2PAK	500	0.19	17	125	45	-	-	-	-
STB24N60DM2	Industrial	D2PAK	600	0.2	18	150	29	Fast recovery diode	155	956	12.5

STB24N60M2	Industrial	D2PAK	600	0.19	18	150	29	-	-	-	-
STB24N60M6	Industrial	D2PAK	600	0.19	17	130	23	-	-	-	-
STB24N65M2	Industrial	D2PAK	650	0.23	16	150	29	-	-	-	-
STB24NM60N	Industrial	D2PAK	600	0.19	17	125	46	-	-	-	-
STB26N60M2	Industrial	D2PAK	600	0.165	20	169	34	-	-	-	-
STB26NM60N	Industrial	D2PAK	600	0.165	20	140	60	-	-	-	-
STB28N60DM2	Industrial	D2PAK	600	0.16	21	170	34	Fast recovery diode	140	500	7.4
STB28N60M2	Industrial	D2PAK	600	0.15	22	170	36	-	-	-	-
STB28N65M2	Industrial	D2PAK	650	0.18	20	170	35	-	-	-	-
STB28NM50N	Industrial	D2PAK	500	0.158	21	90	50	-	-	-	-
STB30N65DM6AG	Automotive	D2PAK	650	0.115	28	223	46	Fast recovery diode	126	630	10
STB30N65M2AG	Automotive	D2PAK	650	0.18	20	190	30.8	-	-	-	-
STB30N65M5	Industrial	D2PAK	650	0.139	22	140	64	-	-	-	-
STB31N65M5	Industrial	D2PAK	650	0.148	22	150	55	-	-	-	-
STB32N65M5	Industrial	D2PAK	650	0.119	24	150	72	-	-	-	-
STB32NM50N	Industrial	D2PAK	500	0.13	22	190	62.5	-	-	-	-
STB33N60DM2	Industrial	D2PAK	600	0.13	24	190	43	Fast recovery diode	150	500	8.8
STB33N60DM6	Industrial	D2PAK	600	0.128	25	190	35	Fast recovery diode	115	520	9
STB33N60M2	Industrial	D2PAK	600	0.125	26	190	45.5	-	-	-	-
STB33N60M6	Industrial	D2PAK	600	0.125	25	190	33.4	-	-	-	-
STB33N65M2	Industrial	D2PAK	650	0.14	24	190	41.5	-	-	-	-
STB34N50DM2AG	Automotive	D2PAK	500	0.12	26	190	44	Fast recovery diode	110	480	8.8
STB34N65M5	Industrial	D2PAK	650	0.11	29	190	70	-	-	-	-
STB34NM60N	Industrial	D2PAK	600	0.105	31.5	250	84	-	-	-	-
STB35N60DM2	Industrial	D2PAK	600	0.11	28	210	54	Fast recovery diode	120	572	10.2
STB35N65DM2	Industrial	D2PAK	650	0.11	32	250	56.3	Fast-recovery diode	100	420	8.4
STB35N65M5	Industrial	D2PAK	650	0.098	27	160	83	-	-	-	-
STB36N60M6	Industrial	D2PAK	600	0.099	30	208	44.3	-	-	-	-
STB36NM60N	Automotive	D2PAK	600	0.105	29	210	83.6	-	-	-	-
STB37N60DM2AG	Automotive	D2PAK	600	0.11	28	210	54	Fast recovery diode	120	572	10.2
STB38N65M5	Industrial	D2PAK	650	0.095	30	190	71	-	-	-	-

STB40N60M2	Industrial	D2PAK	600	0.088	34	250	57	-	-	-	-
STB41N40DM6AG	Automotive	D2PAK	400	0.065	41	250	53	Fast recovery diode	103	440	8.5
STB42N60M2-EP	Industrial	D2PAK	600	0.087	34	250	55	-	-	-	-
STB42N65M5	Industrial	D2PAK	650	0.079	33	190	100	-	-	-	-
STB43N60DM2	Industrial	D2PAK	600	0.093	34	250	56	Fast recovery diode	120	600	10.4
STB43N65M5	Automotive	D2PAK	650	0.063	42	250	100	-	-	-	-
STB45N30M5	Industrial	D2PAK	300	0.04	53	250	95	-	-	-	-
STB45N40DM2AG	Automotive	D2PAK	400	0.072	38	250	56	Fast recovery diode	95	400	8.5
STB45N50DM2AG	Automotive	D2PAK	500	0.084	35	250	57	Fast recovery diode	105	480	9.2
STB45N60DM2AG	Automotive	D2PAK	600	0.093	34	250	56	Fast recovery diode	120	600	10.4
STB45N65M5	Industrial	D2PAK	650	0.078	35	210	82	-	-	-	-
STB46N30M5	Automotive	D2PAK	300	0.04	53	250	95	-	-	-	-
STB46N60M6	Industrial	D2PAK	600	0.08	36	250	53.5	-	-	-	-
STB46NF30	Automotive	D2PAK	300	0.075	42	300	90	-	-	-	-
STB47N50DM6AG	Automotive	D2PAK	500	0.071	38	250	57	Fast recovery diode	113	530	9
STB47N60DM6AG	Automotive	D2PAK	600	0.08	36	250	55	Fast recovery diode	115	540	9.5
STB4NK60Z-1	Industrial	I2PAK	600	2	4	70	18.8	-	-	-	-
STB4NK60ZT4	Industrial	D2PAK	600	2	4	70	18.8	-	-	-	-
STB50N65DM6	Industrial	D2PAK	650	0.091	33	250	52.5	Fast recovery diode	130	650	10
STB57N65M5	Industrial	D2PAK	650	0.063	42	250	98	-	-	-	-
STB6N60M2	Industrial	D2PAK	600	1.2	4.5	60	8	-	-	-	-
STB6NK60Z	Industrial	D2PAK	600	1.2	6	110	33	-	-	-	-
STB6NK60Z-1	Industrial	I2PAK	600	1.2	6	110	33	-	-	-	-
STB7ANM60N	Automotive	D2PAK	600	0.9	5	45	14	-	-	-	-
STB8N65M5	Industrial	D2PAK	650	0.6	7	70	15	-	-	-	-
STB8NM60T4	Industrial	D2PAK	600	1	8	100	13	-	-	-	-
STB9NK50Z	Industrial	D2PAK	500	0.85	7.2	110	32	-	-	-	-
STB9NK60Z	Industrial	D2PAK	600	0.95	7	125	38	-	-	-	-
STD10N60DM2	Industrial	DPAK	600	0.53	8	109	15	Fast recovery diode	90	225	5
STD10N60M2	Industrial	DPAK	600	0.6	7.5	85	13.5	-	-	-	-
STD10N60M6	Industrial	DPAK	600	0.6	6.4	60	8.8	-	-	-	-

STD10NF30	Automotive	DPAK	300	0.33	10	103	23	-	-	-	-
STD10NM60N	Industrial	DPAK	600	0.55	10	70	19	-	-	-	-
STD10NM60ND	Industrial	DPAK	600	0.6	8	70	20	Fast diode	118	680	11
STD11N50M2	Industrial	DPAK	500	0.53	8	85	12	-	-	-	-
STD11N60DM2	Industrial	DPAK	600	0.42	10	110	16.5	Fast recovery diode	90	248	5.5
STD11N60M6	Industrial	DPAK	600	0.52	8	90	10.3	-	-	-	-
STD11N65M2	Industrial	DPAK	650	0.68	7	85	12.5	-	-	-	-
STD11N65M5	Industrial	DPAK	650	0.48	9	85	17	-	-	-	-
STD11NM50N	Industrial	DPAK	500	0.47	8.5	70	19	-	-	-	-
STD11NM60ND	Industrial	DPAK	600	0.45	10	90	30	Fast diode	130	690	11
STD11NM65N	Industrial	DPAK	650	0.455	11	110	29	-	-	-	-
STD12N50DM2	Industrial	DPAK	500	0.35	11	110	16	Fast recovery diode	140	707	10.1
STD12N50M2	Industrial	DPAK	500	0.38	10	85	15	-	-	-	-
STD12N60DM2AG	Automotive	DPAK	600	0.43	10	110	14.5	Fast recovery diode	70	210	5.9
STD12N60DM6	Industrial	DPAK	600	0.39	10	90	17	Fast recovery diode	80	288	7.2
STD12N60M2	Industrial	DPAK	600	0.45	9	85	16	-	-	-	-
STD12N65M2	Industrial	DPAK	650	0.5	8	85	16.5	-	-	-	-
STD13N60DM2	Industrial	DPAK	600	0.365	11	110	19	Fast recovery diode	90	252	5.6
STD13N60M2	Industrial	DPAK	600	0.38	11	110	17	-	-	-	-
STD13N60M6	Industrial	DPAK	600	0.38	10	92	13	-	-	-	-
STD13N65M2	Industrial	DPAK	650	0.43	10	110	17	-	-	-	-
STD13NM60N	Industrial	DPAK	600	0.36	11	90	27	-	-	-	-
STD13NM60ND	Industrial	DPAK	600	0.38	11	109	24.5	Fast diode	150	755	12
STD14NM50NAG	Automotive	DPAK	500	0.32	12	90	27	-	-	-	-
STD15N50M2AG	Automotive	DPAK	500	0.38	10	85	13	-	-	-	-
STD15N60DM6	Industrial	DPAK	600	0.338	12	110	15.3	Fast recovery diode	85	268	6.3
STD15N65M5	Industrial	DPAK	650	0.34	11	85	22	-	-	-	-
STD16N50M2	Industrial	DPAK	500	0.28	13	110	19.5	-	-	-	-
STD16N60M2	Industrial	DPAK	600	0.32	12	110	19	-	-	-	-
STD16N60M6	Industrial	DPAK	600	0.32	12	110	16.7	-	-	-	-
STD16N65M2	Industrial	DPAK	650	0.36	11	110	19.5	-	-	-	-

STD16N65M5	Industrial	DPAK	650	0.279	12	90	31	-	-	-	-
STD16NF25	Industrial	DPAK	250	0.235	14	85	18	-	-	-	-
STD17NF25	Industrial	DPAK	250	0.165	17	90	29.5	-	-	-	-
STD18N55M5	Industrial	DPAK	550	0.192	16	110	31	-	-	-	-
STD18N60M6	Industrial	DPAK	600	0.28	13	110	16.8	-	-	-	-
STD18N65M5	Industrial	DPAK	650	0.22	15	110	34	-	-	-	-
STD18NF25	Automotive	DPAK	250	0.165	17	110	29.3	-	-	-	-
STD1HN60K3	Industrial	DPAK	600	8	1.2	27	9.5	-	-	-	-
STD1NK60-1	Industrial	IPAK	600	8.5	1	30	7	-	-	-	-
STD1NK60T4	Industrial	DPAK	600	8.5	1	30	7	-	-	-	-
STD2HNK60Z	Industrial	DPAK	600	4.8	2	45	11	-	-	-	-
STD2HNK60Z-1	Industrial	IPAK	600	4.8	2	45	11	-	-	-	-
STD2LN60K3	Industrial	DPAK	600	4.5	2	45	12	-	-	-	-
STD2N62K3	Industrial	DPAK	620	3.6	2.2	45	15	-	-	-	-
STD2NC45-1	Industrial	IPAK	450	4.5	1.5	30	7	-	-	-	-
STD3N62K3	Industrial	DPAK	620	2.5	2.7	45	13	-	-	-	-
STD3N65M6	Industrial	DPAK	650	1.5	3.5	45	6	-	-	-	-
STD3NK50Z-1	Industrial	IPAK	500	3.3	2.3	45	11	-	-	-	-
STD3NK50ZT4	Industrial	DPAK	500	3.3	2.3	45	11	-	-	-	-
STD3NK60Z-1	Industrial	IPAK	600	3.6	2.4	45	11.8	-	-	-	-
STD3NK60ZT4	Industrial	DPAK	600	3.6	2.4	45	11.8	-	-	-	-
STD3NM60N	Industrial	DPAK	600	1.8	3.3	50	9.5	-	-	-	-
STD4N52K3	Industrial	DPAK	525	2.6	2.5	45	11	-	-	-	-
STD4N62K3	Industrial	DPAK	620	2	3.8	70	22	-	-	-	-
STD4NK60Z-1	Industrial	IPAK	600	2	4	70	18.8	-	-	-	-
STD4NK60ZT4	Industrial	DPAK	600	2	4	70	18.8	-	-	-	-
STD5N52K3	Industrial	DPAK	525	1.5	4.4	70	17	-	-	-	-
STD5N52U	Industrial	DPAK	525	1.5	4.4	70	16.9	Fast diode	55	95	3.5
STD5N60DM2	Industrial	DPAK	600	1.55	3.5	45	5.3	Fast recovery diode	58	109	4
STD5N60M2	Industrial	DPAK	600	1.4	3.5	45	8.5	-	-	-	-
STD5N62K3	Industrial	DPAK	620	1.6	4.2	70	26	-	-	-	-

STD5NK40Z-1	Industrial	IPAK	400	1.8	3	45	11.7	-	-	-	-
STD5NK40ZT4	Industrial	DPAK	400	1.8	3	45	11.7	-	-	-	-
STD5NK50ZT4	Industrial	DPAK	500	1.5	4.4	70	20	-	-	-	-
STD5NK60ZT4	Industrial	DPAK	600	1.6	5	90	26	-	-	-	-
STD5NM50AG	Automotive	DPAK	500	0.8	7.5	100	13	-	-	-	-
STD5NM60-1	Industrial	IPAK	600	1	5	96	13	-	-	-	-
STD5NM60T4	Industrial	DPAK	600	1	5	96	13	-	-	-	-
STD65N160M9	Industrial	DPAK	650	0.16	20	106	32	-	-	-	-
STD6N52K3	Industrial	DPAK	525	1.2	5	25	26	-	-	-	-
STD6N60DM2	Industrial	DPAK	600	1.1	5	60	6.2	Fast recovery diode	60	135	4.5
STD6N60M2	Industrial	DPAK	600	1.2	4.5	60	8	-	-	-	-
STD6N62K3	Industrial	DPAK	620	1.2	5.5	90	34	-	-	-	-
STD6N65M2	Industrial	DPAK	650	1.35	4	60	9.8	-	-	-	-
STD70R1K3S	Industrial	DPAK	700	1.4	5	77	4.1	-	-	-	-
STD7ANM60N	Automotive	DPAK	600	0.9	5	45	14	-	-	-	-
STD7N52K3	Industrial	DPAK	525	0.85	6	90	33	-	-	-	-
STD7N60M2	Industrial	DPAK	600	0.95	5	60	8.8	-	-	-	-
STD7N60M6	Industrial	DPAK	600	0.9	5	72	5.1	-	-	-	-
STD7N65M2	Industrial	DPAK	650	1.15	5	60	9	-	-	-	-
STD7NK40ZT4	Industrial	DPAK	400	1	5.4	70	19	-	-	-	-
STD7NM60N	Industrial	DPAK	600	0.9	5	45	14	-	-	-	-
STD8N60DM2	Industrial	DPAK	600	0.6	8	85	13.5	Fast recovery diode	80	188	4.7
STD8N65M5	Industrial	DPAK	650	0.6	7	70	15	-	-	-	-
STD8NF25	Automotive	DPAK	250	0.42	8	72	16	-	-	-	-
STD8NM50N	Industrial	DPAK	500	0.79	5	45	14	-	-	-	-
STD9N40M2	Industrial	DPAK	400	0.8	6	60	8.8	-	-	-	-
STD9N60M2	Industrial	DPAK	600	0.78	5.5	60	7.5	-	-	-	-
STD9N60M6	Industrial	DPAK	600	0.75	6	76	10	-	-	-	-
STD9N65DM6AG	Automotive	DPAK	650	0.44	9	89	11.7	Fast recovery diode	80	290	7.2
STD9N65M2	Industrial	DPAK	650	0.9	5	60	10	-	-	-	-
STD9NM40N	Industrial	DPAK	400	0.79	5.6	60	14	-	-	-	-

STD9NM50N	Automotive	DPAK	500	0.79	5	45	14	-	-	-	-
STD9NM60N	Industrial	DPAK	600	0.745	6.5	70	17.4	-	-	-	-
STE145N65M5	Industrial	ISOTOP	650	0.015	138	679	414	-	-	-	-
STE40NC60	Industrial	ISOTOP	600	0.13	40	460	307.5	-	-	-	-
STE48NM50	Industrial	ISOTOP	500	0.1	48	450	87	-	-	-	-
STE53NC50	Industrial	ISOTOP	500	0.08	53	460	310	-	-	-	-
STE70NM60	Industrial	ISOTOP	600	0.055	70	568	190	-	-	-	-
STE88N65M5	Industrial	ISOTOP	650	0.029	88	450	204	-	-	-	-
STF10N60DM2	Industrial	TO-220FP	600	0.53	8	25	15	Fast recovery diode	90	225	5
STF10N60M2	Industrial	TO-220FP	600	0.6	7.5	25	13.5	-	-	-	-
STF10N62K3	Industrial	TO-220FP	620	0.75	8.4	30	42	-	-	-	-
STF10N65K3	Industrial	TO-220FP	650	1	10	35	42	-	-	-	-
STF10NM60N	Industrial	TO-220FP	600	0.55	10	25	19	-	-	-	-
STF11N60DM2	Industrial	TO-220FP	600	0.42	10	25	16.5	Fast recovery diode	90	248	5.5
STF11N60M2-EP	Industrial	TO-220FP	600	0.595	7.5	25	12.4	-	-	-	-
STF11N65M2	Industrial	TO-220FP	650	0.68	7	25	12.5	-	-	-	-
STF11N65M5	Industrial	TO-220FP	650	0.48	9	25	17	-	-	-	-
STF11NM50N	Industrial	TO-220FP	500	0.47	8.5	25	19	-	-	-	-
STF11NM60ND	Industrial	TO-220FP	600	0.45	10	25	30	Fast diode	130	690	11
STF12N50DM2	Industrial	TO-220FP	500	0.35	11	25	16	Fast recovery diode	140	707	10.1
STF12N50M2	Industrial	TO-220FP	500	0.38	10	25	15	-	-	-	-
STF12N60M2	Industrial	TO-220FP	600	0.45	9	25	16	-	-	-	-
STF12N65M2	Industrial	TO-220FP	650	0.5	8	25	16.5	-	-	-	-
STF12N65M5	Industrial	TO-220FP	650	0.43	8.5	25	20	-	-	-	-
STF12NK60Z	Industrial	TO-220FP	600	0.64	10	35	59	-	-	-	-
STF13N60DM2	Industrial	TO-220FP	600	0.365	11	25	19	Fast recovery diode	90	252	5.6
STF13N60M2	Industrial	TO-220FP	600	0.38	11	25	17	-	-	-	-
STF13N65M2	Industrial	TO-220FP	650	0.43	10	25	17	-	-	-	-
STF13NK50Z	Industrial	TO-220FP	500	0.48	11	30	47	-	-	-	-
STF13NM60N	Industrial	TO-220FP	600	0.36	11	25	27	-	-	-	-
STF13NM60ND	Industrial	TO-220FP	600	0.38	11	25	24.5	Fast diode	150	755	12

STF14NM50N	Industrial	TO-220FP	500	0.32	12	25	27	-	-	-	-
STF15NM65N	Industrial	TO-220FP	650	0.38	12	30	33.3	-	-	-	-
STF16N50M2	Industrial	TO-220FP	500	0.28	13	25	19.5	-	-	-	-
STF16N60M2	Industrial	TO-220FP	600	0.32	12	25	19	-	-	-	-
STF16N60M6	Industrial	TO-220FP	600	0.32	12	25	16.7	-	-	-	-
STF16N65M2	Industrial	TO-220FP	650	0.36	11	25	19.5	-	-	-	-
STF16N65M5	Industrial	TO-220FP	650	0.279	12	25	31	-	-	-	-
STF16NF25	Industrial	TO-220FP	250	0.235	14	25	18	-	-	-	-
STF18N60DM2	Industrial	TO-220FP	600	0.295	12	25	20	Fast recovery diode	125	675	11
STF18N60M2	Industrial	TO-220FP	600	0.28	13	25	21.5	-	-	-	-
STF18N65DM2	Industrial	TO-220FP	650	0.295	12	28	22	Fast recovery diode	89	342	6.4
STF18N65M2	Industrial	TO-220FP	650	0.33	12	25	20	-	-	-	-
STF18NM60N	Industrial	TO-220FP	600	0.285	13	30	35	-	-	-	-
STF19NM50N	Industrial	TO-220FP	500	0.25	14	30	34	-	-	-	-
STF20N60M2-EP	Industrial	TO-220FP	600	0.278	13	25	21.7	-	-	-	-
STF20N65M5	Industrial	TO-220FP	650	0.19	18	30	36	-	-	-	-
STF21N65M5	Industrial	TO-220FP	650	0.179	17	30	50	-	-	-	-
STF22N60DM6	Industrial	TO-220FP	600	0.24	15	29	20.6	Fast recovery diode	88	299	6.8
STF22N60M6	Industrial	TO-220FP	600	0.23	15	30	20	-	-	-	-
STF22NM60N	Industrial	TO-220FP	600	0.22	16	30	44	-	-	-	-
STF23NM50N	Industrial	TO-220FP	500	0.19	17	30	45	-	-	-	-
STF24N60DM2	Industrial	TO-220FP	600	0.2	18	30	29	Fast recovery diode	155	956	12.5
STF24N60M2	Industrial	TO-220FP	600	0.19	18	30	29	-	-	-	-
STF24N60M6	Industrial	TO-220FP	600	0.19	17	130	23	-	-	-	-
STF24N65M2	Industrial	TO-220FP	650	0.23	16	30	29	-	-	-	-
STF24NM60N	Industrial	TO-220FP	600	0.19	17	30	46	-	-	-	-
STF25N60M2-EP	Industrial	TO-220FP	600	0.19	18	30	29	-	-	-	-
STF26N60DM6	Industrial	TO-220FP	600	0.195	18	30	24	Fast recovery diode	100	350	7
STF26N60M2	Industrial	TO-220FP	600	0.165	20	30	34	-	-	-	-
STF26N65DM2	Industrial	TO-220FP	650	0.19	20	30	35.5	Fast recovery diode	100	365	7.3
STF26NM60N	Industrial	TO-220FP	600	0.165	20	35	60	-	-	-	-

STF27N60M2-EP	Industrial	TO-220FP	600	0.163	20	30	33	-	-	-	-
STF28N60DM2	Industrial	TO-220FP	600	0.16	21	30	34	Fast recovery diode	140	500	7.4
STF28N60M2	Industrial	TO-220FP	600	0.15	22	30	36	-	-	-	-
STF28N65M2	Industrial	TO-220FP	650	0.18	20	30	35	-	-	-	-
STF28NM50N	Industrial	TO-220FP	500	0.158	21	25	50	-	-	-	-
STF2HNK60Z	Industrial	TO-220FP	600	4.8	2	20	11	-	-	-	-
STF2N62K3	Industrial	TO-220FP	620	3.6	2.2	20	15	-	-	-	-
STF31N65M5	Industrial	TO-220FP	650	0.148	22	30	55	-	-	-	-
STF33N60DM2	Industrial	TO-220FP	600	0.13	24	35	43	Fast recovery diode	150	500	8.8
STF33N60DM6	Industrial	TO-220FP	600	0.128	25	35	35	Fast recovery diode	115	520	9
STF33N60M2	Industrial	TO-220FP	600	0.125	26	35	45.5	-	-	-	-
STF33N60M6	Industrial	TO-220FP	600	0.125	25	35	33.4	-	-	-	-
STF33N65M2	Industrial	TO-220FP	650	0.14	24	190	41.5	-	-	-	-
STF34N65M5	Industrial	TO-220FP	650	0.11	29	30	70	-	-	-	-
STF35N60DM2	Industrial	TO-220FP	600	0.11	28	40	54	Fast recovery diode	120	572	10.2
STF36N60M6	Industrial	TO-220FP	600	0.099	30	40	44.3	-	-	-	-
STF38N65M5	Industrial	TO-220FP	650	0.095	30	35	71	-	-	-	-
STF3N62K3	Industrial	TO-220FP	620	2.5	2.7	20	13	-	-	-	-
STF40N60M2	Industrial	TO-220FP	600	0.088	34	40	57	-	-	-	-
STF40N65M2	Industrial	TO-220FP	650	0.099	32	40	56	-	-	-	-
STF42N60M2-EP	Industrial	TO-220FP	600	0.087	34	40	55	-	-	-	-
STF42N65M5	Industrial	TO-220FP	650	0.079	33	40	100	-	-	-	-
STF43N60DM2	Industrial	TO-220FP	600	0.093	34	40	56	Fast recovery diode	120	600	10.4
STF45N65M5	Industrial	TO-220FP	650	0.078	35	40	82	-	-	-	-
STF46N60M6	Industrial	TO-220FP	600	0.08	36	40	53.5	-	-	-	-
STF4N62K3	Industrial	TO-220FP	620	2	3.8	25	22	-	-	-	-
STF57N65M5	Industrial	TO-220FP	650	0.063	42	40	98	-	-	-	-
STF5N60M2	Industrial	TO-220FP	600	1.4	3.5	20	8.5	-	-	-	-
STF5N62K3	Industrial	TO-220FP	620	1.6	4.2	25	26	-	-	-	-
STF6N60M2	Industrial	TO-220FP	600	1.2	4.5	20	8	-	-	-	-
STF6N62K3	Industrial	TO-220FP	620	1.2	5.5	30	34	-	-	-	-

STF6N65K3	Industrial	TO-220FP	650	1.3	5.4	30	33	-	-	-	-
STF6N65M2	Industrial	TO-220FP	650	1.35	4	20	9.8	-	-	-	-
STF7N60M2	Industrial	TO-220FP	600	0.95	5	20	8.8	-	-	-	-
STF7N65M2	Industrial	TO-220FP	650	1.15	5	20	9	-	-	-	-
STF7NM60N	Industrial	TO-220FP	600	0.9	5	20	14	-	-	-	-
STF8N65M5	Industrial	TO-220FP	650	0.6	7	25	15	-	-	-	-
STF8NM50N	Industrial	TO-220FP	500	0.79	5	45	14	-	-	-	-
STF9N60M2	Industrial	TO-220FP	600	0.78	5.5	20	7.5	-	-	-	-
STF9NM60N	Industrial	TO-220FP	600	0.745	6.5	25	17.4	-	-	-	-
STFH10N60M2	Industrial	TO-220FP wide creepage	600	0.6	7.5	25	13.5	-	-	-	-
STFH18N60M2	Industrial	TO-220FP wide creepage	600	0.28	13	25	21.5	-	-	-	-
STFH24N60M2	Industrial	TO-220FP wide creepage	600	0.19	18	30	29	-	-	-	-
STFU10NK60Z	Industrial	TO-220FP ultra narrow leads	600	0.75	10	35	50	-	-	-	-
STFU13N60M2	Industrial	TO-220FP ultra narrow leads	600	0.38	11	25	17	-	-	-	-
STFU13N65M2	Industrial	TO-220FP ultra narrow leads	650	0.43	10	25	17	-	-	-	-
STFU15NM65N	Industrial	TO-220FP ultra narrow leads	650	0.38	12	30	33.3	-	-	-	-
STFU18N60M2	Industrial	TO-220FP ultra narrow leads	600	0.28	13	25	21.5	-	-	-	-
STFU18N65M2	Industrial	TO-220FP ultra narrow leads	650	0.33	12	25	20	-	-	-	-
STFU24N60M2	Industrial	TO-220FP ultra narrow leads	600	0.19	18	30	29	-	-	-	-
STFU25N60M2-EP	Industrial	TO-220FP ultra narrow leads	600	0.19	18	30	29	-	-	-	-
STFU26N60M2	Industrial	TO-220FP ultra narrow leads	600	0.165	20	30	34	-	-	-	-
STFU28N65M2	Industrial	TO-220FP ultra narrow leads	650	0.18	20	30	35	-	-	-	-
STFU9N65M2	Industrial	TO-220FP ultra narrow leads	650	0.9	5	20	10	-	-	-	-
STFW38N65M5	Industrial	TO-3PF	650	0.095	30	50	71	-	-	-	-
STFW40N60M2	Industrial	TO-3PF	600	0.088	34	63	57	-	-	-	-
STFW69N65M5	Industrial	TO-3PF	650	0.045	58	79	143	-	-	-	-
STH30N65DM6-7AG	Automotive	H2PAK-7	650	0.115	28	223	46	Fast recovery diode	126	630	10
STH47N60DM6-2AG	Automotive	H2PAK-2	600	0.08	36	250	55	Fast recovery diode	115	540	9.5
STHU32N65DM6AG	Automotive	HU3PAK	650	0.097	37	320	52.6	Fast recovery diode	122	620	9
STHU36N60DM6AG	Automotive	HU3PAK	600	0.099	29	210	46	Fast recovery diode	110	500	9
STI13NM60N	Industrial	I2PAK	600	0.36	11	90	27	-	-	-	-

STI18N65M2	Industrial	I2PAK	650	0.33	12	110	20	-	-	-	-
STI20N65M5	Industrial	I2PAK	650	0.19	18	130	36	-	-	-	-
STI21N65M5	Industrial	I2PAK	650	0.179	17	125	50	-	-	-	-
STI24N60M2	Industrial	I2PAK	600	0.19	18	150	29	-	-	-	-
STI28N60M2	Industrial	I2PAK	600	0.15	22	170	36	-	-	-	-
STI33N60M2	Industrial	I2PAK	600	0.125	26	190	45.5	-	-	-	-
STI33N65M2	Industrial	I2PAK	650	0.14	24	190	41.5	-	-	-	-
STI47N60DM6AG	Automotive	I2PAK	600	0.08	36	250	55	Fast recovery diode	115	540	9.5
STI4N62K3	Industrial	I2PAK	620	2	3.8	70	22	-	-	-	-
STL10N60M6	Industrial	PowerFLAT 5x6 HV	600	0.66	5.5	48	8.8	-	-	-	-
STL10N65M2	Industrial	PowerFLAT 5x6 HV	650	1	4.5	48	10.3	-	-	-	-
STL11N65M5	Industrial	PowerFLAT 5x5 HV	650	0.53	8.5	70	17	-	-	-	-
STL12N60M2	Industrial	PowerFLAT 5x6 HV	600	0.495	6.5	52	16	-	-	-	-
STL12N60M6	Industrial	PowerFLAT 5x6 HV	600	0.49	6.4	48	12.3	-	-	-	-
STL13N60DM2	Industrial	PowerFLAT 5x6 HV	600	0.37	8	52	19	Fast recovery diode	90	252	5.6
STL13N60M2	Industrial	PowerFLAT 5x6 HV	600	0.42	7	55	16	-	-	-	-
STL13N60M6	Industrial	PowerFLAT 5x6 HV	600	0.415	7	52	13	-	-	-	-
STL13N65M2	Industrial	PowerFLAT 5x6 HV	650	0.475	6.5	52	17	-	-	-	-
STL13NM60N	Industrial	PowerFLAT 8x8 HV	600	0.385	10	3	30	-	-	-	-
STL15N60M2-EP	Industrial	PowerFLAT 5x6 HV	600	0.418	7	55	17	-	-	-	-
STL15N65M5	Industrial	PowerFLAT 5x6 HV	650	0.375	10	52	22	-	-	-	-
STL16N60M2	Industrial	PowerFLAT 5x6 HV	600	0.355	8	52	19	-	-	-	-
STL16N60M6	Industrial	PowerFLAT 5x6 HV	600	0.35	8	52	16.7	-	-	-	-
STL16N65M2	Industrial	PowerFLAT 5x6 HV	650	0.395	7.5	56	19.5	-	-	-	-
STL17N60M6	Industrial	PowerFLAT 8x8 HV	600	0.35	10	90	16.7	-	-	-	-
STL18N60M2	Industrial	PowerFLAT 5x6 HV	600	0.308	9	57	21.5	-	-	-	-
STL18N65M2	Industrial	PowerFLAT 5x6 HV	650	0.365	8	57	21.5	-	-	-	-
STL18N65M5	Industrial	PowerFLAT 5x6 HV	650	0.24	15	57	31	-	-	-	-
STL19N60M2	Industrial	PowerFLAT 8x8 HV	600	0.308	11	110	21.5	-	-	-	-
STL19N60M6	Industrial	PowerFLAT 8x8 HV	600	0.308	11	90	16.8	-	-	-	-
STL21N65M5	Industrial	PowerFLAT 8x8 HV	650	0.19	2.7	3	44	-	-	-	-

STL22N60DM6	Industrial	PowerFLAT 8x8 HV	600	0.265	13	0.2	20.6	Fast recovery diode	88	299	6.8
STL22N60M6	Industrial	PowerFLAT 5x6 HV	600	0.25	10	57	20	-	-	-	-
STL22N65M5	Industrial	PowerFLAT 8x8 HV	650	0.21	15	110	36	-	-	-	-
STL24N60DM2	Industrial	PowerFLAT 8x8 HV	600	0.22	15	125	29	Fast recovery diode	155	956	12.5
STL24N60M2	Industrial	PowerFLAT 8x8 HV	600	0.21	18	2.8	29	-	-	-	-
STL24N60M6	Industrial	PowerFLAT 8x8 HV	600	0.209	15	109	23	-	-	-	-
STL24N65M2	Industrial	PowerFLAT 8x8 HV	650	0.25	14	125	29	-	-	-	-
STL25N60M2-EP	Industrial	PowerFLAT 8x8 HV	600	0.205	16	125	29	-	-	-	-
STL26N60DM6	Industrial	PowerFLAT 8x8 HV	600	0.215	15	110	24	Fast recovery diode	100	350	7
STL26N65DM2	Industrial	PowerFLAT 8x8 HV	650	0.206	20	140	35.5	Fast recovery diode	100	365	7.3
STL26NM60N	Industrial	PowerFLAT 8x8 HV	600	0.185	19	3	60	-	-	-	-
STL28N60DM2	Industrial	PowerFLAT 8x8 HV	600	0.175	21	140	34	Fast recovery diode	140	500	7.4
STL31N65M5	Industrial	PowerFLAT 8x8 HV	650	0.162	15	2.8	45	-	-	-	-
STL33N60DM2	Industrial	PowerFLAT 8x8 HV	600	0.14	21	150	43	Fast recovery diode	120	530	8.8
STL33N60DM6	Industrial	PowerFLAT 8x8 HV	600	0.14	21	150	35	Fast recovery diode	115	520	9
STL33N60M2	Industrial	PowerFLAT 8x8 HV	600	0.135	22	150	45.5	-	-	-	-
STL33N60M6	Industrial	PowerFLAT 8x8 HV	600	0.137	21	150	33.4	-	-	-	-
STL33N65M2	Industrial	PowerFLAT 8x8 HV	650	0.154	20	150	41.5	-	-	-	-
STL36N55M5	Industrial	PowerFLAT 8x8 HV	550	0.09	22.5	3	67	-	-	-	-
STL36N60M6	Industrial	PowerFLAT 8x8 HV	600	0.11	25	160	44.3	-	-	-	-
STL38N65M5	Industrial	PowerFLAT 8x8 HV	650	0.105	22.5	2.8	71	-	-	-	-
STL3N65M2	Industrial	PowerFLAT 3.3x3.3 HV	650	1.8	2.3	22	5	-	-	-	-
STL3NK40	Industrial	PowerFLAT 5x5 HV	400	5.5	0.43	2.5	8.7	-	-	-	-
STL3NM60N	Industrial	PowerFLAT 3.3x3.3 HV	600	1.8	2.2	22	9.5	-	-	-	-
STL45N60DM6	Industrial	PowerFLAT 8x8 HV	600	0.11	25	160	44	Fast recovery diode	105	480	9.3
STL45N65M5	Industrial	PowerFLAT 8x8 HV	650	0.086	22.5	160	82	-	-	-	-
STL47N60M6	Industrial	PowerFLAT 8x8 HV	600	0.082	31	190	52.2	-	-	-	-
STL52N60DM6	Industrial	PowerFLAT 8x8 HV	600	0.084	45	174	52	Fast recovery diode	134	780	10
STL57N65M5	Industrial	PowerFLAT 8x8 HV	650	0.069	22.5	189	96	-	-	-	-
STL7LN65KSAG	Automotive	PowerFLAT 5x6 VHV	650	1.15	5	79	11.7	-	-	-	-
STL7N60M2	Industrial	PowerFLAT 5x5 HV	600	1.05	5	67	8.8	-	-	-	-

STL8N65M2	Industrial	PowerFLAT 5x6 HV	650	1.25	4	48	9	-	-	-	-
STL9N60M2	Industrial	PowerFLAT 5x6 HV	600	0.86	4.8	48	10	-	-	-	-
STN1HNK60	Industrial	SOT-223	600	8.5	1	-	7	-	-	-	-
STN1NK60Z	Industrial	SOT-223	600	15	0.3	3.3	4.9	-	-	-	-
STN1NK60ZL	Industrial	SOT-223	600	12	0.44	3.3	9.4	-	-	-	-
STN3N40K3	Industrial	SOT-223	400	3.4	1.8	3.3	11	-	-	-	-
STN3N45K3	Industrial	SOT-223	450	3.8	0.6	2	6	-	-	-	-
STN6N60M2	Industrial	SOT223-2	600	1.25	5.5	6	6.2	-	-	-	-
STO24N60M6	Industrial	TO-LL	600	0.19	17	130	23	-	-	-	-
STO33N60M6	Industrial	TO-LL	600	0.125	25	230	33.4	-	-	-	-
STO36N60M6	Industrial	TO-LL	600	0.099	30	230	44.3	-	-	-	-
STO47N60M6	Industrial	TO-LL	600	0.08	36	255	52.2	-	-	-	-
STO65N60DM6	Industrial	TO-LL	600	0.076	46	320	65.2	Fast recovery diode	116	580	10
STO67N60DM6	Industrial	TO-LL	600	0.059	58	240	72.5	Fast recovery diode	125	600	9.6
STO67N60M6	Industrial	TO-LL	600	0.054	34	150	72.5	-	-	-	-
STO68N65DM6	Industrial	TO-LL	650	0.065	55	240	80	Fast recovery diode	135	641	9.5
STP10N60M2	Industrial	TO-220	600	0.6	7.5	85	13.5	-	-	-	-
STP10NK60Z	Industrial	TO-220	600	0.75	10	115	50	-	-	-	-
STP10NK60ZFP	Industrial	TO-220FP	600	0.75	10	35	50	-	-	-	-
STP10NK70ZFP	Industrial	TO-220FP	700	0.85	8.6	35	64	-	-	-	-
STP10NM60N	Industrial	TO-220	600	0.55	10	70	19	-	-	-	-
STP11N60DM2	Industrial	TO-220	600	0.42	10	110	16.5	Fast recovery diode	90	248	5.5
STP11N65M2	Industrial	TO-220	650	0.68	7	85	12.5	-	-	-	-
STP11N65M5	Industrial	TO-220	650	0.48	9	85	17	-	-	-	-
STP11NK40Z	Industrial	TO-220	400	0.55	9	110	32	-	-	-	-
STP11NK40ZFP	Industrial	TO-220FP	400	0.55	9	30	32	-	-	-	-
STP11NK50Z	Industrial	TO-220	500	0.52	10	125	49	-	-	-	-
STP11NK50ZFP	Industrial	TO-220FP	500	0.52	10	30	49	-	-	-	-
STP11NM60	Industrial	TO-220	600	0.45	11	160	30	-	-	-	-
STP11NM60ND	Industrial	TO-220	600	0.45	10	90	30	Fast diode	130	690	11
STP12N50M2	Industrial	TO-220	500	0.38	10	85	15	-	-	-	-

STP12N60M2	Industrial	TO-220	600	0.45	9	85	16	-	-	-	-
STP12NK30Z	Industrial	TO-220	300	0.4	9	90	25	-	-	-	-
STP12NM50	Industrial	TO-220	500	0.35	12	160	28	-	-	-	-
STP12NM50FP	Industrial	TO-220FP	500	0.35	12	35	28	-	-	-	-
STP13N60M2	Industrial	TO-220	600	0.38	11	110	17	-	-	-	-
STP13N65M2	Industrial	TO-220	650	0.43	10	110	17	-	-	-	-
STP13NK60Z	Industrial	TO-220	600	0.55	13	150	66	-	-	-	-
STP13NK60ZFP	Industrial	TO-220FP	600	0.55	13	35	66	-	-	-	-
STP13NM60N	Industrial	TO-220	600	0.36	11	90	27	-	-	-	-
STP14NK50Z	Industrial	TO-220,TO-220FP	500	0.38	14	150,35	69	-	-	-	-
STP14NK60ZFP	Industrial	TO-220FP	600	0.5	12	40	75	-	-	-	-
STP14NM50N	Industrial	TO-220	500	0.32	12	90	27	-	-	-	-
STP15N60M2-EP	Industrial	TO-220	600	0.378	11	110	17	-	-	-	-
STP15N65M5	Industrial	TO-220	650	0.34	11	85	22	-	-	-	-
STP15NK50Z	Industrial	TO-220	500	0.34	14	160	76	-	-	-	-
STP16N65M2	Industrial	TO-220	650	0.36	11	110	19.5	-	-	-	-
STP16N65M5	Industrial	TO-220	650	0.279	12	90	31	-	-	-	-
STP17NF25	Industrial	TO-220	250	0.165	17	90	29.5	-	-	-	-
STP17NK40ZFP	Industrial	TO-220FP	400	0.25	15	35	65	-	-	-	-
STP18N55M5	Industrial	TO-220	550	0.192	16	110	31	-	-	-	-
STP18N60DM2	Industrial	TO-220	600	0.295	12	110	20	Fast recovery diode	125	675	11
STP18N60M2	Industrial	TO-220	600	0.28	13	110	21.5	-	-	-	-
STP18N65M2	Industrial	TO-220	650	0.33	12	110	20	-	-	-	-
STP18N65M5	Industrial	TO-220	650	0.22	15	110	34	-	-	-	-
STP18NM60N	Industrial	TO-220	600	0.285	13	110	35	-	-	-	-
STP19NM50N	Industrial	TO-220	500	0.25	14	110	34	-	-	-	-
STP20N65M5	Industrial	TO-220	650	0.19	18	130	36	-	-	-	-
STP20NK50Z	Industrial	TO-220	500	0.27	17	190	85	-	-	-	-
STP20NM50	Industrial	TO-220	500	0.25	20	192	40	-	-	-	-
STP20NM60	Industrial	TO-220	600	0.29	20	192	39	-	-	-	-
STP20NM60FP	Industrial	TO-220FP	600	0.29	20	45	39	-	-	-	-

STP21N65M5	Industrial	TO-220	650	0.179	17	125	50	-	-	-	-
STP22N60DM6	Industrial	TO-220	600	0.24	15	130	20.6	Fast recovery diode	88	299	6.8
STP22NM60N	Industrial	TO-220	600	0.22	16	125	44	-	-	-	-
STP23NM50N	Industrial	TO-220	500	0.19	17	125	45	-	-	-	-
STP24N60DM2	Industrial	TO-220	600	0.2	18	150	29	Fast recovery diode	155	956	12.5
STP24N60M2	Industrial	TO-220	600	0.19	18	150	29	-	-	-	-
STP24N60M6	Industrial	TO-220	600	0.19	17	130	23	-	-	-	-
STP24NM60N	Industrial	TO-220	600	0.19	17	125	46	-	-	-	-
STP25N60M2-EP	Industrial	TO-220	600	0.19	18	150	29	-	-	-	-
STP26N60DM6	Industrial	TO-220	600	0.195	18	130	24	Fast recovery diode	100	350	7
STP26N60M2	Industrial	TO-220	600	0.165	20	169	34	-	-	-	-
STP26N65DM2	Industrial	TO-220	650	0.19	20	170	35.5	Fast recovery diode	100	365	7.3
STP26NM60N	Industrial	TO-220	600	0.165	20	140	60	-	-	-	-
STP28N60DM2	Industrial	TO-220	600	0.16	21	170	34	Fast recovery diode	140	500	7.4
STP28N60M2	Industrial	TO-220	600	0.15	22	170	36	-	-	-	-
STP28N65M2	Industrial	TO-220	650	0.18	20	170	35	-	-	-	-
STP28NM50N	Industrial	TO-220	500	0.158	21	90	50	-	-	-	-
STP30N65DM6AG	Automotive	TO-220	650	0.115	28	223	46	Fast recovery diode	126	630	10
STP30N65M5	Industrial	TO-220	650	0.139	22	140	64	-	-	-	-
STP31N65M5	Industrial	TO-220	650	0.148	22	150	55	-	-	-	-
STP33N60DM2	Industrial	TO-220	600	0.13	24	190	43	Fast recovery diode	150	500	8.8
STP33N60DM6	Industrial	TO-220	600	0.128	25	190	35	Fast recovery diode	105	470	9
STP33N60M2	Industrial	TO-220	600	0.125	26	190	45.5	-	-	-	-
STP33N60M6	Industrial	TO-220	600	0.125	25	190	33.4	-	-	-	-
STP33N65M2	Industrial	TO-220	650	0.14	24	190	41.5	-	-	-	-
STP34N65M5	Industrial	TO-220	650	0.11	29	190	70	-	-	-	-
STP34NM60N	Industrial	TO-220	600	0.105	31.5	250	84	-	-	-	-
STP35N60DM2	Industrial	TO-220	600	0.11	28	210	54	Fast recovery diode	120	570	10.2
STP35N65DM2	Industrial	TO-220	650	0.11	32	250	56.3	Fast-recovery diode	100	420	8.4
STP36N60M6	Industrial	TO-220	600	0.099	30	208	44.3	-	-	-	-
STP38N65M5	Industrial	TO-220	650	0.095	30	190	71	-	-	-	-

STP3NK60Z	Industrial	TO-220	600	3.6	2.4	45	11.8	-	-	-	-
STP3NK60ZFP	Industrial	TO-220FP	600	3.6	2.4	20	11.8	-	-	-	-
STP40N60M2	Industrial	TO-220	600	0.088	34	250	57	-	-	-	-
STP40N65M2	Industrial	TO-220	650	0.099	32	250	56	-	-	-	-
STP42N60M2-EP	Industrial	TO-220	600	0.087	34	250	55	-	-	-	-
STP42N65M5	Industrial	TO-220	650	0.079	33	190	100	-	-	-	-
STP43N60DM2	Industrial	TO-220	600	0.093	34	250	56	Fast recovery diode	120	600	10.4
STP45N40DM2AG	Automotive	TO-220	400	0.072	38	250	56	Fast recovery diode	95	400	8.5
STP45N60DM2AG	Automotive	TO-220	600	0.093	34	250	56	Fast recovery diode	120	600	10.4
STP45N60DM6	Industrial	TO-220	600	0.099	30	210	44	Fast recovery diode	110	500	9
STP45N65M5	Industrial	TO-220	650	0.078	35	210	82	-	-	-	-
STP46N60M6	Industrial	TO-220	600	0.08	36	250	53.5	-	-	-	-
STP46NF30	Automotive	TO-220	300	0.075	42	300	90	-	-	-	-
STP4N52K3	Industrial	TO-220	525	2.6	2.5	45	11	-	-	-	-
STP4NK60Z	Industrial	TO-220	600	2	4	70	18.8	-	-	-	-
STP4NK60ZFP	Industrial	TO-220FP	600	2	4	25	18.8	-	-	-	-
STP50N60DM6	Industrial	TO-220	600	0.08	36	250	55	Fast recovery diode	115	540	9.5
STP50N65DM6	Industrial	TO-220	650	0.091	33	250	52.5	Fast recovery diode	130	650	10
STP50NF25	Industrial	TO-220	250	0.069	45	160	68.2	-	-	-	-
STP57N65M5	Industrial	TO-220	650	0.063	42	250	98	-	-	-	-
STP5N60M2	Industrial	TO-220	600	1.4	3.5	45	8.5	-	-	-	-
STP5NK50Z	Industrial	TO-220	500	1.5	4.4	70	20	-	-	-	-
STP5NK50ZFP	Industrial	TO-220FP	500	1.5	4.4	25	20	-	-	-	-
STP5NK52ZD	Industrial	TO-220	520	1.5	4.4	70	16.9	-	-	-	-
STP5NK60Z	Industrial	TO-220	600	1.6	5	90	26	-	-	-	-
STP5NK60ZFP	Industrial	TO-220FP	600	1.6	5	25	26	-	-	-	-
STP60N043DM9	Industrial	TO-220	600	0.043	55	245	78.6	Fast recovery diode	170	1220	12
STP65N045M9	Industrial	TO-220	650	0.045	54	245	80	-	-	-	-
STP65N150M9	Industrial	TO-220	650	0.15	20	140	32	-	-	-	-
STP6N60M2	Industrial	TO-220	600	1.2	4.5	60	8	-	-	-	-
STP6N62K3	Industrial	TO-220	620	1.2	5.5	90	34	-	-	-	-

STP6NK60Z	Industrial	TO-220,TO-220FP	600	1.2	6	110,30	33	-	-	-	-
STP7N60M2	Industrial	TO-220	600	0.95	5	60	8.8	-	-	-	-
STP7NK40Z	Industrial	TO-220	400	1	5.4	70	19	-	-	-	-
STP8NM50N	Industrial	TO-220	500	0.79	5	20	14	-	-	-	-
STP9N60M2	Industrial	TO-220	600	0.78	5.5	60	7.5	-	-	-	-
STP9N65M2	Industrial	TO-220	650	0.9	5	60	10	-	-	-	-
STP9NK50Z	Industrial	TO-220	500	0.85	7.2	110	32	-	-	-	-
STP9NK50ZFP	Industrial	TO-220FP	500	0.85	7.2	30	32	-	-	-	-
STP9NK60Z	Industrial	TO-220	600	0.95	7	125	38	-	-	-	-
STP9NK60ZFP	Industrial	TO-220FP	600	0.95	7	30	38	-	-	-	-
STP9NK65Z	Industrial	TO-220	650	1.2	6.4	125	41	-	-	-	-
STP9NK65ZFP	Industrial	TO-220FP	650	1.2	6.4	30	41	-	-	-	-
STP9NK70ZFP	Industrial	TO-220FP	700	1.2	7.5	35	48	-	-	-	-
STQ1HNK60R-AP	Industrial	TO-92	600	5.8	1	-	7	-	-	-	-
STQ1NK60ZR	Industrial	TO-92	600	15	0.3	3	4.9	-	-	-	-
STQ2HNK60ZR-AP	Industrial	TO-92	600	4.8	0.5	3	11	-	-	-	-
STQ2LN60K3-AP	Industrial	TO-92	600	4.5	0.6	2.5	12	-	-	-	-
STS1DNC45	Industrial	SO-8	450	4.1	0.45	2	7	-	-	-	-
STS1NK60Z	Industrial	SO-8	600	-	-	-	-	-	-	-	-
STU10NM60N	Industrial	IPAK	600	0.55	10	70	19	-	-	-	-
STU13N60M2	Industrial	IPAK	600	0.38	11	110	17	-	-	-	-
STU16N65M2	Industrial	IPAK	650	0.36	11	110	19.5	-	-	-	-
STU2N62K3	Industrial	IPAK	620	3.6	2.2	45	10	-	-	-	-
STU3N45K3	Industrial	IPAK	450	3.8	1.8	27	6	-	-	-	-
STU3N62K3	Industrial	IPAK	620	2.5	2.7	45	13	-	-	-	-
STU4N52K3	Industrial	IPAK	525	2.6	2.5	45	11	-	-	-	-
STU4N62K3	Industrial	IPAK	620	2	3.8	70	22	-	-	-	-
STU5N60M2	Industrial	IPAK	600	1.4	3.5	45	8.5	-	-	-	-
STU6N60M2	Industrial	IPAK	600	1.2	4.5	60	8	-	-	-	-
STU6N62K3	Industrial	IPAK	620	1.2	5.5	90	34	-	-	-	-
STU6N65M2	Industrial	IPAK	650	1.35	4	60	9.8	-	-	-	-

STU7N60M2	Industrial	IPAK	600	0.95	5	60	8.8	-	-	-	-
STU7N65M2	Industrial	IPAK	650	1.15	5	60	9	-	-	-	-
STU7NF25	Industrial	IPAK	250	0.42	8	72	16	-	-	-	-
STU7NM60N	Industrial	IPAK	600	0.9	5	45	14	-	-	-	-
STU9N60M2	Industrial	IPAK	600	0.78	5.5	60	7.5	-	-	-	-
STW10NK60Z	Industrial	TO-247	600	0.75	10	156	50	-	-	-	-
STW13NK60Z	Industrial	TO-247	600	0.55	13	150	66	-	-	-	-
STW14NK50Z	Industrial	TO-247	500	0.38	14	150	69	-	-	-	-
STW15NK50Z	Industrial	TO-247	500	0.34	14	160	76	-	-	-	-
STW18N60DM2	Industrial	TO-247	600	0.295	12	110	20	Fast recovery diode	125	675	11
STW18N60M2	Industrial	TO-247	600	0.28	13	110	21.5	-	-	-	-
STW18N65M5	Industrial	TO-247	650	0.22	15	110	34	-	-	-	-
STW18NM60N	Industrial	TO-247	600	0.285	13	110	35	-	-	-	-
STW19NM50N	Industrial	TO-247	500	0.25	14	110	34	-	-	-	-
STW19NM60N	Automotive	TO-247	600	0.285	13	110	35	-	-	-	-
STW20NK50Z	Industrial	TO-247	500	0.27	20	190	85	-	-	-	-
STW20NM60	Industrial	TO-247	600	0.29	20	214	39	-	-	-	-
STW24N60DM2	Industrial	TO-247	600	0.2	18	150	29	Fast recovery diode	155	956	12.5
STW24N60M2	Industrial	TO-247	600	0.19	18	30	29	-	-	-	-
STW24N60M6	Industrial	TO-247	600	0.19	17	130	23	-	-	-	-
STW25N60M2-EP	Industrial	TO-247	600	0.19	18	150	29	-	-	-	-
STW26N60M2	Industrial	TO-247	600	0.165	20	169	34	-	-	-	-
STW26N65DM2	Industrial	TO-247	650	0.19	20	170	35.5	Fast recovery diode	100	365	7.3
STW26NM50	Industrial	TO-247	500	0.12	30	313	76	-	-	-	-
STW26NM60N	Industrial	TO-247	600	0.165	20	140	60	-	-	-	-
STW27N60M2-EP	Industrial	TO-247	600	0.163	20	170	33	-	-	-	-
STW28N60DM2	Industrial	TO-247	600	0.16	21	170	34	Fast recovery diode	140	500	7.4
STW28N60M2	Industrial	TO-247	600	0.15	22	170	36	-	-	-	-
STW28N65M2	Industrial	TO-247	650	0.18	20	170	35	-	-	-	-
STW28NM50N	Industrial	TO-247	500	0.158	21	150	50	-	-	-	-
STW30N65M5	Industrial	TO-247	650	0.139	22	140	64	-	-	-	-

STW31N65M5	Industrial	TO-247	650	0.148	22	150	55	-	-	-	-
STW32NM50N	Industrial	TO-247	500	0.13	22	190	62.5	-	-	-	-
STW33N60DM2	Industrial	TO-247	600	0.13	24	190	43	Fast recovery diode	150	500	8.8
STW33N60M2	Industrial	TO-247	600	0.125	26	190	45.5	-	-	-	-
STW33N60M6	Industrial	TO-247	600	0.125	25	190	33.4	-	-	-	-
STW34NM60N	Industrial	TO-247	600	0.105	31.5	250	84	-	-	-	-
STW35N60DM2	Industrial	TO-247	600	0.11	28	210	54	Fast recovery diode	120	572	10.2
STW35N65DM2	Industrial	TO-247	650	0.11	32	250	56.3	Fast-recovery diode	100	420	8.4
STW36N60M6	Industrial	TO-247	600	0.099	30	208	44.3	-	-	-	-
STW38N65M5	Industrial	TO-247	650	0.095	30	190	71	-	-	-	-
STW40N60M2	Industrial	TO-247	600	0.088	34	250	57	-	-	-	-
STW40N65M2	Industrial	TO-247	650	0.099	32	250	56	-	-	-	-
STW42N60M2-EP	Industrial	TO-247	600	0.087	34	250	55	-	-	-	-
STW42N65M5	Industrial	TO-247	650	0.079	33	190	100	-	-	-	-
STW43N60DM2	Industrial	TO-247	600	0.093	34	250	56	Fast recovery diode	120	600	10.4
STW45N60DM2AG	Automotive	TO-247	600	0.093	34	250	56	Fast recovery diode	120	600	10.4
STW45N60DM6	Industrial	TO-247	600	0.099	30	210	44	Fast recovery diode	110	500	9
STW45N65M5	Industrial	TO-247	650	0.078	35	210	82	-	-	-	-
STW45NM50	Industrial	TO-247	500	0.1	45	417	87	-	-	-	-
STW45NM60	Industrial	TO-247	600	0.11	45	417	96	-	-	-	-
STW46NF30	Automotive	TO-247	300	0.075	42	300	90	-	-	-	-
STW48N60DM2	Industrial	TO-247	600	0.079	40	300	70	Fast recovery diode	140	700	10
STW48N60M2	Industrial	TO-247	600	0.07	42	300	70	-	-	-	-
STW48N60M2-4	Industrial	TO247-4	600	0.07	42	300	70	-	-	-	-
STW48N60M6	Industrial	TO-247	600	0.069	39	250	57	-	-	-	-
STW48N60M6-4	Industrial	TO247-4	600	0.069	39	250	57	-	-	-	-
STW48NM60N	Industrial	TO-247	600	0.07	39	255	130	-	-	-	-
STW50N65DM2AG	Automotive	TO-247	650	0.087	38	300	70	Fast recovery diode	150	960	12.8
STW50N65DM6	Industrial	TO-247	650	0.091	33	250	52.5	Fast recovery diode	130	650	10
STW52N60DM6	Industrial	TO-247	600	0.074	45	357	52	Fast recovery diode	134	780	10
STW52NK25Z	Industrial	TO-247	250	0.045	52	300	160	-	-	-	-

STW56N60DM2	Industrial	TO-247	600	0.06	50	360	90	Fast recovery diode	140	700	10.6
STW56N60M2	Industrial	TO-247	600	0.055	52	350	91	-	-	-	-
STW56N60M2-4	Industrial	TO247-4	600	0.055	52	350	91	-	-	-	-
STW56N65DM2	Industrial	TO-247	650	0.065	48	360	88	Fast recovery diode	135	680	10
STW56N65M2	Industrial	TO-247	650	0.062	49	358	93	-	-	-	-
STW56N65M2-4	Industrial	TO247-4	650	0.062	49	358	93	-	-	-	-
STW57N65M5	Industrial	TO-247	650	0.063	42	250	98	-	-	-	-
STW58N60DM2AG	Automotive	TO-247	600	0.06	50	360	90	Fast recovery diode	140	700	10.6
STW58N65DM2AG	Automotive	TO-247	650	0.065	48	360	88	Fast recovery diode	135	680	10
STW62N65M5	Automotive	TO-247	650	0.049	46	330	142	-	-	-	-
STW63N65DM2	Industrial	TO-247	650	0.05	60	446	120	Fast recovery diode	154	940	12.2
STW65N023M9-4	Industrial	TO247-4	650	0.023	95	463	230	-	-	-	-
STW65N045M9-4	Industrial	TO247-4	650	0.045	54	312	80	-	-	-	-
STW65N60DM6	Industrial	TO-247	600	0.071	46	368	65.2	Fast recovery diode	116	580	10
STW65N65DM2AG	Automotive	TO-247	650	0.05	60	446	120	Fast recovery diode	154	940	12.2
STW68N60M6	Industrial	TO-247	600	0.041	63	390	106	-	-	-	-
STW68N60M6-4	Industrial	TO247-4	600	0.041	63	390	106	-	-	-	-
STW68N65DM6	Industrial	TO-247	650	0.059	55	431	80	Fast recovery diode	135	641	9.5
STW68N65DM6-4AG	Automotive	TO247-4	650	0.039	72	480	118	Fast recovery diode	142	900	10.6
STW69N65M5	Industrial	TO-247	650	0.045	58	330	143	-	-	-	-
STW69N65M5-4	Industrial	TO247-4	650	0.045	58	330	143	-	-	-	-
STW70N60DM2	Industrial	TO-247	600	0.042	66	446	121	Fast recovery diode	150	750	10.5
STW70N60DM6	Industrial	TO-247	600	0.042	62	390	99	Fast recovery diode	140	700	10
STW70N60DM6-4	Industrial	TO247-4	600	0.042	62	390	99	Fast recovery diode	140	700	10
STW70N60M2	Industrial	TO-247	600	0.04	68	450	130	-	-	-	-
STW70N60M2-4	Industrial	TO247-4	600	0.04	68	450	130	-	-	-	-
STW70N65DM6	Industrial	TO-247	650	0.04	68	450	125	Fast recovery diode	170	1080	12.7
STW70N65DM6-4	Industrial	TO247-4	650	0.04	68	450	125	Fast recovery diode	170	1080	12.7
STW70N65M2	Industrial	TO-247	650	0.046	63	450	117	-	-	-	-
STW72N60DM2AG	Automotive	TO-247	600	0.042	66	446	121	Fast recovery diode	150	750	10.5
STW72N60DM6AG	Automotive	TO-247	600	0.042	56	390	98	Fast recovery diode	153	900	10

STW75N60DM6	Industrial	TO-247	600	0.036	72	446	117	Fast recovery diode	140	700	10
STW75N60M6	Industrial	TO-247	600	0.036	72	446	106	-	-	-	-
STW75N60M6-4	Industrial	TO247-4	600	0.036	72	446	106	-	-	-	-
STW75N65DM6-4	Industrial	TO247-4	650	0.036	75	480	118	Fast recovery diode	149	920	10.4
STW77N65M5	Industrial	TO-247	650	0.038	69	400	185	-	-	-	-
STW78N65M5	Automotive	TO-247	650	0.032	69	450	203	-	-	-	-
STW88N65M5	Industrial	TO-247	650	0.029	84	450	204	-	-	-	-
STW88N65M5-4	Industrial	TO247-4	650	0.029	84	450	204	-	-	-	-
STWA30N65DM6AG	Automotive	TO-247 long leads	650	0.11	28	284	46	Fast recovery diode	126	630	10
STWA32N65DM6AG	Automotive	TO-247 long leads	650	0.097	37	320	52.6	Fast recovery diode	122	620	9
STWA38N65DM6AG	Automotive	TO-247 long leads	650	0.082	42	347	54.4	Fast recovery diode	123	700	9
STWA40N60M2	Industrial	TO-247 long leads	600	0.088	34	250	57	-	-	-	-
STWA45N65M5	Industrial	TO-247 long leads	650	0.078	35	210	82	-	-	-	-
STWA46N65DM6AG	Automotive	TO-247 long leads	650	0.063	50	391	82	Fast recovery diode	140	780	10.5
STWA48N60DM2	Industrial	TO-247 long leads	600	0.079	40	300	70	Fast recovery diode	140	700	10
STWA48N60M2	Industrial	TO-247 long leads	600	0.07	42	300	70	-	-	-	-
STWA50N65DM2AG	Automotive	TO-247 long leads	650	0.087	38	300	70	Fast recovery diode	150	960	12.8
STWA57N65M5	Industrial	TO-247 long leads	650	0.063	42	250	98	-	-	-	-
STWA60N043DM9	Industrial	TO-247 long leads	600	0.043	55	312	78.6	Fast recovery diode	165	1060	11
STWA65N023M9	Industrial	TO-247 long leads	650	0.023	95	463	230	-	-	-	-
STWA65N045M9	Industrial	TO-247 long leads	650	0.045	54	312	80	-	-	-	-
STWA65N60DM6	Industrial	TO-247 long leads	600	0.071	46	368	65.2	Fast recovery diode	116	580	10
STWA65N65DM2AG	Automotive	TO-247 long leads	650	0.05	60	446	120	Fast recovery diode	154	940	12.2
STWA67N60DM6	Industrial	TO-247 long leads	600	0.054	58	431	72.5	Fast recovery diode	125	600	9.6
STWA67N60M6	Industrial	TO-247 long leads	600	0.049	52	330	72.5	-	-	-	-
STWA68N60M6	Industrial	TO-247 long leads	600	0.041	63	390	106	-	-	-	-
STWA68N65DM6	Industrial	TO-247 long leads	650	0.059	55	431	80	Fast recovery diode	135	641	9.5
STWA68N65DM6AG	Automotive	TO-247 long leads	650	0.039	72	480	118	Fast recovery diode	142	900	10.6
STWA70N60DM2	Industrial	TO-247 long leads	600	0.042	66	446	121	Fast recovery diode	150	750	10.5
STWA70N60DM6	Industrial	TO-247 long leads	600	0.042	62	390	99	Fast recovery diode	140	700	10
STWA70N65DM6	Industrial	TO-247 long leads	650	0.04	68	450	125	Fast recovery diode	170	1080	12.7

STWA72N60DM2AG	Automotive	TO-247 long leads	600	0.042	66	446	121	Fast recovery diode	150	750	10.5
STWA72N60DM6AG	Automotive	TO-247 long leads	600	0.042	56	390	98	Fast recovery diode	153	900	10
STWA75N60DM6	Industrial	TO-247 long leads	600	0.036	72	446	117	Fast recovery diode	140	700	10
STWA75N60M6	Industrial	TO-247 long leads	600	0.036	72	446	106	-	-	-	-
STWA75N65DM6	Industrial	TO-247 long leads	650	0.036	75	480	118	Fast recovery diode	149	920	10.4
STWA88N65M5	Industrial	TO-247 long leads	650	0.029	84	450	204	-	-	-	-
STY100NM60N	Industrial	Max247	600	0.029	98	625	330	-	-	-	-
STY105NM50N	Industrial	Max247	500	0.022	110	625	326	-	-	-	-
STY112N65M5	Industrial	Max247	650	0.022	96	625	350	-	-	-	-
STY139N65M5	Industrial	Max247	650	0.017	130	625	363	-	-	-	-
STY145N65M5	Industrial	Max247	650	0.015	138	625	434	-	-	-	-
STY60NK30Z	Industrial	Max247	300	0.045	60	450	220	-	-	-	-
STY60NM50	Industrial	Max247	500	0.05	60	560	190	-	-	-	-
STY60NM60	Industrial	Max247	600	0.055	60	600	178	-	-	-	-
STB20NM60D	Industrial	D2PAK	600	0.29	20	192	37	Fast diode	240	1800	16
STB22N60M6	Industrial	D2PAK	600	0.23	15	130	20	-	-	-	-
STB8NM60D	Industrial	D2PAK	600	1	8	100	15	-	-	-	-
STD15N60M2-EP	Industrial	DPAK	600	0.378	11	110	17	-	-	-	-
STD4NK50Z-1	Industrial	IPAK	500	2.7	3	45	12	-	-	-	-
STD7N60DM2	Industrial	DPAK	600	0.9	6	60	7.5	Fast recovery diode	69	164	4.8
STF10NM60ND	Industrial	TO-220FP	600	0.6	8	25	20	Fast diode	118	680	11
STF11N65M2(045Y)	Industrial	TO-220FP narrow leads	650	0.68	7	25	12.5	-	-	-	-
STF13N60M2(045Y)	Industrial	TO-220FP narrow leads	600	0.38	11	25	17	-	-	-	-
STF15N65M5	Industrial	TO-220FP	650	0.34	11	25	22	-	-	-	-
STF21N65M5(045Y)	Industrial	TO-220FP narrow leads	650	0.179	17	30	50	-	-	-	-
STF35N65DM2	Industrial	TO-220FP	650	0.11	32	40	56.3	Fast-recovery diode	100	420	8.4
STF6N60DM2	Industrial	TO-220FP	600	1.1	5	20	6.2	Fast recovery diode	60	135	4.5
STF7N60DM2	Industrial	TO-220FP	600	0.9	6	25	7.5	Fast recovery diode	69	164	4.8
STFH10N60M6	Industrial	TO-220FP wide creepage	600	0.6	6.4	20	8.8	-	-	-	-
STFH40N60M2	Industrial	TO-220FP wide creepage	600	0.088	34	40	57	-	-	-	-
STFU11N65M2	Industrial	TO-220FP ultra narrow leads	650	0.68	7	25	12.5	-	-	-	-

STFW45N65M5	Industrial	TO-3PF	650	0.078	35	57	82	-	-	-	-
STHU47N60DM6AG	Automotive	HU3PAK	600	0.08	36	250	55	Fast recovery diode	115	540	9.5
STL15N60DM6	Industrial	PowerFLAT 5x6 HV	600	0.372	8.5	64	15.3	Fast recovery diode	85	268	6.3
STO52N60DM6	Industrial	TO-LL	600	0.078	45	305	52	Fast recovery diode	134	780	10
STP12N65M2	Industrial	TO-220	650	0.5	8	25	16.5	-	-	-	-
STP12N65M5	Industrial	TO-220	650	0.43	8.5	70	20	-	-	-	-
STP32NM50N	Industrial	TO-220	500	0.13	22	190	62.5	-	-	-	-
STP3NK50Z	Industrial	TO-220	500	3.3	2.3	45	11	-	-	-	-
STU11N65M2	Industrial	IPAK	650	0.68	7	85	12.5	-	-	-	-
STU13NM60N	Industrial	IPAK	600	0.36	11	90	27	-	-	-	-
STU3N65M6	Industrial	IPAK	650	1.5	3.5	45	6	-	-	-	-
STU5N62K3	Industrial	IPAK	620	1.6	4.2	70	26	-	-	-	-
STU5N70M6-S	Industrial	Short IPAK	700	1.4	3.5	45	7.1	-	-	-	-
STU70R1K3S	Industrial	IPAK	700	1.4	5	77	4.1	-	-	-	-
STW34N65M5	Industrial	TO-247	650	0.11	29	190	70	-	-	-	-
STW38N65M5-4	Industrial	TO247-4	650	0.095	30	190	71	-	-	-	-
STW57N65M5-4	Industrial	TO247-4	650	0.063	42	250	98	-	-	-	-
STW74NF30	Industrial	TO-247	300	0.045	60	320	164	-	-	-	-
STWA35N65DM2	Industrial	TO-247 long leads	650	0.11	32	250	56.3	Fast-recovery diode	100	420	8.4
STWA48N60M6	Industrial	TO-247 long leads	600	0.069	39	250	57	-	-	-	-
STWA63N65DM2	Industrial	TO-247 long leads	650	0.05	60	446	120	Fast recovery diode	154	940	12.2
STD12N60M6	Industrial	DPAK	600	0.32	12	110	15	-	-	-	-
STL18N60M6	Industrial	PowerFLAT 5x6 HV	600	0.308	9	57	16.8	-	-	-	-

Power Transistors / Power MOSFETs/STPOWER N-channel MOSFETs > 30 V to 200 V

Part Number	Package	Grade	Technology	V _{DSS} (V)	R _{DS(on)} (Ω) (@ 4.5/5V) max	R _{DS(on)} (Ω) (@ V _{GS} = 10V) max	Drain Current (Dc) (A) max	P _{TOT} (W) max	Q _g (nC) typ
IRF630	TO-220	Industrial	StripFET NF/NS	200	-	0.4	9	75	31
STB100N10F7	D2PAK	Industrial	STripFET F7	100	-	0.008	80	120	61
STB100N6F7	D2PAK	Industrial	STripFET F7	60	-	0.0056	100	125	30
STB120N4F6	D2PAK	Automotive	STripFET H6/F6	40	-	0.004	80	110	65
STB120N4LF6	D2PAK	Automotive	STripFET H6/F6	40	0.005	0.004	80	110	80
STB120NF10T4	D2PAK	Industrial	StripFET NF/NS	100	-	0.0105	110	312	172
STB130N6F7	D2PAK	Industrial	STripFET F7	60	-	0.005	80	158	45
STB140NF55	D2PAK	Industrial	StripFET NF/NS	55	-	0.008	80	300	142
STB140NF75	D2PAK	Industrial	StripFET NF/NS	75	-	0.0075	120	310	160
STB150NF55	D2PAK	Automotive	StripFET NF/NS	55	-	0.006	150	300	140
STB160N75F3	D2PAK	Industrial	STripFET F3	75	-	0.0037	120	330	85
STB16NF06L	D2PAK	Industrial	StripFET NF/NS	60	-	0.09	16	45	7.3
STB170NF04	D2PAK	Automotive	StripFET NF/NS	40	-	0.005	80	300	117
STB19NF20	D2PAK	Industrial	-	200	-	0.16	11	90	24
STB270N4F3	D2PAK	Automotive	STripFET F3	40	-	0.002	160	330	110
STB30NF10	D2PAK	Industrial	StripFET NF/NS	100	-	0.052	30	90	40
STB30NF20	D2PAK	Industrial	-	200	-	0.075	30	125	38
STB30NF20L	D2PAK	Automotive	-	200	-	0.075	30	125	65
STB36NF06L	D2PAK	Automotive	StripFET NF/NS	60	0.05	0.04	30	70	13
STB40NF10L	D2PAK	Industrial	StripFET NF/NS	100	-	0.033	40	150	46
STB40NF20	D2PAK	Industrial	StripFET NF/NS	200	-	0.045	40	160	75
STB45NF06	D2PAK	Automotive	StripFET NF/NS	60	-	0.028	38	80	32
STB55NF06	D2PAK	Industrial	StripFET NF/NS	60	-	0.018	50	110	44.5

STB55NF06LT4	D2PAK	Industrial	StripFET NF/NS	60	0.02	0.018	55	95	27
STB60NF06	D2PAK	Automotive	StripFET NF/NS	60	-	0.016	60	150	49
STB60NF06LT4	D2PAK	Automotive	StripFET NF/NS	60	0.016	0.014	60	110	35
STB75NF20	D2PAK	Industrial	StripFET NF/NS	200	-	0.034	75	190	84
STB75NF75	D2PAK	Industrial	StripFET NF/NS	75	-	0.011	80	300	117
STB75NF75L	D2PAK	Automotive	StripFET NF/NS	75	0.013	0.011	75	300	110
STB76NF75	D2PAK	Automotive	StripFET NF/NS	75	-	0.011	80	300	117
STB80N20M5	D2PAK	Industrial	StripFET NF/NS	200	-	0.023	61	190	104
STB80N4F6AG	D2PAK	Automotive	STripFET H6/F6	40	-	0.006	80	70	36
STB80NF10	D2PAK	Industrial	StripFET NF/NS	100	-	0.015	80	300	140
STB80NF55-06T	D2PAK	Automotive	StripFET NF/NS	55	-	0.0065	80	300	142
STB80NF55-08AG	D2PAK	Automotive	StripFET NF/NS	55	-	0.008	80	300	112
STB80NF55L-06	D2PAK	Industrial	StripFET NF/NS	55	-	0.0065	80	300	100
STB85NF55	D2PAK	Automotive	StripFET NF/NS	55	-	0.008	80	300	120
STB85NF55L	D2PAK	Automotive	StripFET NF/NS	55	-	0.008	80	300	80
STD100N10F7	DPAK	Industrial	STripFET F7	100	-	0.008	80	120	61
STD105N10F7AG	DPAK	Automotive	STripFET F7	100	-	0.008	80	120	61
STD10NF10T4	DPAK	Industrial	StripFET NF/NS	100	-	0.13	13	50	15.3
STD110N8F6	DPAK	Industrial	STripFET H6/F6	80	-	0.0065	110	200	150
STD120N4F6	DPAK	Automotive	STripFET H6/F6	40	-	0.004	80	110	65
STD120N4LF6	DPAK	Automotive	STripFET H6/F6	40	0.005	0.004	80	110	80
STD12NF06L-1	IPAK	Industrial	StripFET NF/NS	60	0.12	0.1	12	30	7.5
STD12NF06LAG	DPAK	Automotive	StripFET NF/NS	60	0.12	0.1	12	30	7.5
STD12NF06LT4	DPAK	Industrial	StripFET NF/NS	60	0.12	0.1	12	30	7.5
STD12NF06T4	DPAK	Industrial	StripFET NF/NS	60	-	0.1	12	30	10
STD130N6F7	DPAK	Industrial	STripFET F7	60	-	0.005	80	134	45

STD134N4F7AG	DDPAK	Automotive	STripFET F7	40	-	0.0035	80	134	41
STD140N6F7	DDPAK	Industrial	STripFET F7	60	-	0.0038	80	134	55
STD15NF10T4	DDPAK	Industrial	STripFET NF/NS	100	-	0.065	23	70	30
STD16NF06	DDPAK	Industrial	STripFET NF/NS	60	-	0.07	16	40	14.1
STD170N4F7AG	DDPAK	Automotive	STripFET F7	40	-	0.0028	80	172	63
STD20NF06L	DDPAK	Automotive	STripFET NF/NS	60	-	0.04	24	60	12
STD20NF06LAG	DDPAK	Automotive	STripFET NF/NS	60	0.05	0.04	24	60	13
STD20NF06T4	DDPAK	Automotive	-	60	-	0.04	23	60	20
STD20NF10T4	DDPAK	Industrial	STripFET NF/NS	100	-	0.045	25	85	40
STD20NF20	DDPAK	Industrial	STripFET NF/NS	200	-	0.125	18	110	28
STD25N10F7	DDPAK	Industrial	STripFET F7	100	-	0.035	25	40	13
STD25NF10LA	DDPAK	Automotive	STripFET NF/NS	100	-	0.035	25	100	38
STD25NF10LT4	DDPAK	Industrial	STripFET NF/NS	100	-	0.035	25	100	38
STD25NF10T4	DDPAK	Industrial	STripFET NF/NS	100	-	0.038	25	100	55
STD25NF20	DDPAK	Automotive	STripFET NF/NS	200	-	0.125	18	110	28
STD26NF10	DDPAK	Automotive	STripFET NF/NS	100	-	0.038	25	100	55
STD30N6LF6AG	DDPAK	Automotive	STripFET H6/F6	60	0.03	0.025	24	40	26
STD30NF06	DDPAK	Automotive	STripFET H6/F6	60	-	0.028	28	70	43
STD30NF06LAG	DDPAK	Automotive	STripFET H6/F6	60	0.03	0.028	35	70	23
STD30NF06LT4	DDPAK	Automotive	STripFET NF/NS	60	-	0.028	35	70	23
STD35NF06	DDPAK	Industrial	STripFET NF/NS	60	-	0.024	35	55	44.5
STD35NF06L	DDPAK	Automotive	STripFET NF/NS	60	0.02	0.017	35	80	25
STD40NF10	DDPAK	Industrial	STripFET NF/NS	100	-	0.028	50	125	46.5
STD44N4LF6	DDPAK	Automotive	STripFET H6/F6	40	0.018	0.0125	44	50	22
STD45N10F7	DDPAK	Industrial	STripFET F7	100	-	0.018	45	60	25
STD45NF75T4	DDPAK	Automotive	STripFET NF/NS	75	-	0.024	30	100	60

STD47N10F7AG	DPAK	Automotive	STripFET F7	100	-	0.016	45	60	25
STD5N20L	DPAK	Industrial	StripFET NF/NS	200	0.7	-	5	33	5
STD60NF06T4	DPAK	Industrial	StripFET NF/NS	60	-	0.016	60	110	49
STD60NF55L	DPAK	Industrial	StripFET NF/NS	55	0.017	0.015	60	110	40
STD60NF55LAT4	DPAK	Automotive	StripFET NF/NS	55	0.017	0.017	60	110	40
STD64N4F6AG	DPAK	Automotive	STripFET H6/F6	40	-	0.0082	54	60	44
STD65N55F3	DPAK	Automotive	STripFET F3	55	-	0.0085	80	110	33.5
STD6NF10	DPAK	Industrial	StripFET NF/NS	100	-	0.25	6	30	12
STD70N10F4	DPAK	Industrial	F4	100	-	0.0195	60	125	80
STD70NS04ZL	DPAK	Automotive	StripFET NF/NS	33	0.0105	0.0125	70	110	32
STD80N10F7	DPAK	Industrial	STripFET F7	100	-	0.01	70	85	45
STD80N4F6	DPAK	Automotive	STripFET H6/F6	40	-	0.006	80	70	36
STD80N6F6	DPAK	Automotive	STripFET H6/F6	60	-	0.005	80	120	147
STD80N6F7	DPAK	Industrial	STripFET F7	60	-	0.008	40	100	25
STD85N10F7AG	DPAK	Automotive	STripFET F7	100	-	0.01	70	85	45
STD95N4F3	DPAK	Automotive	STripFET F3	40	-	0.0058	80	110	40
STD95N4LF3	DPAK	Automotive	STripFET F3	40	-	0.006	80	110	50
STF100N10F7	TO-220FP	Industrial	STripFET F7	100	-	0.008	45	30	61
STF100N6F7	TO-220FP	Industrial	STripFET F7	60	-	0.0056	46	25	30
STF140N6F7	TO-220FP	Industrial	STripFET F7	60	-	0.0035	70	33	55
STF19NF20	TO-220FP	Industrial	StripFET NF/NS	200	-	0.16	11	25	24
STF20NF20	TO-220FP	Industrial	StripFET NF/NS	200	-	0.125	18	30	28
STF40NF20	TO-220FP	Industrial	StripFET NF/NS	200	-	0.045	40	40	75
STH140N8F7-2	H2PAK-2	Industrial	STripFET F7	80	-	0.004	90	200	96
STH145N8F7-2AG	H2PAK-2	Automotive	STripFET F7	80	-	0.004	90	200	96
STH150N10F7-2	H2PAK-2	Industrial	STripFET F7	100	-	0.0039	110	250	117

STH160N4LF6-2	H2PAK-2	Industrial	STripFET H6/F6	40	0.0046	0.0032	160	150	180
STH170N8F7-2	H2PAK-2	Industrial	STripFET F7	80	-	0.0037	120	250	120
STH180N10F3-2	H2PAK-2	Industrial	STripFET F3	100	-	0.0045	180	315	114.6
STH200N10WF7-2	H2PAK-2	Industrial	STripFET F7	100	-	0.004	180	340	93
STH240N10F7-2	H2PAK-2	Industrial	STripFET F7	100	-	0.0025	180	300	160
STH240N10F7-6	H2PAK-6	Industrial	STripFET F7	100	-	0.0025	180	300	160
STH240N75F3-6	H2PAK-6	Industrial	STripFET F3	75	-	0.003	180	300	87
STH260N6F6-2	H2PAK-2	Industrial	STripFET H6/F6	60	-	0.002	180	300	183
STH270N8F7-2	H2PAK-2	Industrial	STripFET F7	80	-	0.0021	180	315	193
STH270N8F7-6	H2PAK-6	Industrial	STripFET F7	80	-	0.0021	180	315	193
STH275N8F7-2AG	H2PAK-2	Automotive	STripFET F7	80	-	0.0021	180	315	193
STH275N8F7-6AG	H2PAK-6	Automotive	STripFET H6/F6	80	-	0.0021	180	315	193
STH310N10F7-2	H2PAK-2	Industrial	STripFET F7	100	-	0.0023	180	315	180
STH310N10F7-6	H2PAK-6	Industrial	STripFET F7	100	-	0.0023	180	315	180
STH315N10F7-2	H2PAK-2	Automotive	STripFET F7	100	-	0.0023	180	315	180
STH315N10F7-6	H2PAK-6	Automotive	STripFET F7	100	-	0.0023	180	315	180
STH320N4F6-6	H2PAK-6	Automotive	STripFET H6/F6	40	-	0.0013	200	340	240
STH410N4F7-2AG	H2PAK-2	Automotive	STripFET F7	40	-	0.0011	200	365	141
STH410N4F7-6AG	H2PAK-6	Automotive	STripFET F7	40	-	0.0011	200	365	141
STK130N4LF7AG	LFPK 5X6	Automotive	STripFET F7	40	-	0.0082	54	60	44
STK184N4F7AG	LFPK 5X6	Automotive	STripFET F7	40	-	0.002	100	136	35
STK224N4F7AG	LFPK 5X6	Automotive	STripFET F7	40	-	0.0015	100	150	50
STL100N10F7	PowerFLAT 5x6	Industrial	STripFET F7	100	-	0.0073	80	5	61
STL100N8F7	PowerFLAT 5x6	Industrial	STripFET F7	80	-	0.0061	100	120	46.8
STL105DN4LF7AG	PowerFLAT 5x6 double island WF	Automotive	STripFET F7	40	0.008	0.0045	15	4.3	25
STL105N4LF7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	40	0.008	0.0045	15	4.3	25

STL105N8F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	80	-	0.0065	95	127	46
STL110N10F7	PowerFLAT 5x6	Industrial	STripFET F7	100	-	0.006	100	136	72
STL110N4F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	40	-	0.004	108	94	15
STL115N10F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	100	-	0.006	100	136	72
STL117N4LF7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	40	0.005	0.0035	119	4.3	25
STL120N10F8	PowerFLAT 5x6	Industrial	STripFET F8	100	-	0.0046	125	150	56
STL120N4F6AG	PowerFLAT 5x6 WF	Automotive	STripFET H6/F6	40	-	0.0036	55	96	63
STL120N8F7	PowerFLAT 5x6	Industrial	STripFET F7	80	-	0.0048	120	140	60
STL125N8F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	80	-	0.0045	120	-	76
STL12N10F7	POWERFLAT 3.3X3.	Industrial	STripFET F7	100	-	0.0133	12	78	28
STL130N6F7	PowerFLAT 5x6	Industrial	STripFET F7	60	-	0.0035	130	125	45
STL130N8F7	PowerFLAT 5x6	Industrial	STripFET F7	80	-	0.0036	120	135	96
STL135N8F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	80	-	0.0036	120	135	103
STL140N4F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	40	-	0.0025	120	111	29
STL140N4LLF5	PowerFLAT 5x6	Industrial	STripFET H5/F5	40	0.0031	0.0027	140	80	45
STL140N6F7	PowerFLAT 5x6	Industrial	STripFET F7	60	-	0.0028	140	125	55
STL15DN4F5	PowerFLAT 5x6 double island WF	Automotive	STripFET H5/F5	40	-	0.009	15	4.3	25
STL160N4F7	PowerFLAT 5x6	Industrial	STripFET F7	40	-	0.0025	260	187	100
STL180N6F7	PowerFLAT 5x6	Industrial	STripFET F7	60	-	0.0016	120	150	60
STL190N4F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	40	-	0.002	120	127	41
STL20N6F7	PowerFLAT 3.3x3.3	Industrial	STripFET F7	60	-	0.0054	20	3	30
STL210N4F7	PowerFLAT 5x6	Industrial	STripFET F7	40	-	0.0016	120	-	43
STL210N4F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	40	-	0.0016	120	150	43
STL210N4LF7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	40	-	0.0016	120	150	56
STL220N6F7	PowerFLAT 5x6	Industrial	STripFET F7	60	-	0.0014	120	187	100
STL225N6F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	60	-	0.0014	120	188	98

STL260N4F7	PowerFLAT 5x6	Industrial	STripFET F7	40	-	0.0011	120	188	72
STL260N4LF7	PowerFLAT 5x6	Industrial	STripFET F7	40	0.0014	0.0011	120	188	60
STL285N4F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	40	-	0.0011	120	188	67
STL30N10F7	PowerFLAT 5x6	Industrial	STripFET F7	100	-	0.035	8	4.8	14
STL320N4LF8	PowerFLAT 5x6	Industrial	STripFET F8	40	0.00115	8.0E-4	360	188	96
STL325N4LF8AG	PowerFLAT 5x6 WF	Automotive	STripFET F8	40	0.0011	7.5E-4	373	188	95
STL35N75LF3	PowerFLAT 3.3x3.3	Industrial	STripFET F3	75	0.03	0.025	35	50	7.5
STL36DN6F7	PowerFLAT 5x6 double island	Industrial	STripFET F7	60	-	0.027	33	58	8
STL38DN6F7AG	PowerFLAT 5x6 double island WF	Automotive	STripFET F7	60	-	0.027	10	58	8
STL3N10F7	PowerFLAT 2x2	Industrial	STripFET F7	100	-	0.07	4	2.4	7.8
STL40N10F7	PowerFLAT 5x6	Industrial	STripFET F7	100	-	0.024	10	5	14
STL40N75LF3	PowerFLAT 5x6	Industrial	STripFET F3	75	0.022	0.019	10	4	12
STL45N10F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	100	-	0.024	18	72	19.5
STL4N10F7	PowerFLAT 3.3x3.3	Industrial	STripFET F7	100	-	0.07	4.5	2.9	7.8
STL50DN6F7	PowerFLAT 5x6 double island	Industrial	STripFET F7	60	-	0.011	57	62.5	17
STL50N6F7	PowerFLAT 5x6	Industrial	STripFET F7	60	-	0.011	50	71	17
STL52DN4LF7AG	PowerFLAT 5x6 double island WF	Automotive	STripFET F7	40	0.02	0.016	18	65	8.4
STL60N10F7	PowerFLAT 5x6	Industrial	STripFET F7	100	-	0.018	12	5	25
STL64DN4F7AG	PowerFLAT 5x6 double island WF	Automotive	STripFET F7	40	-	0.0085	40	65	9.8
STL64N4F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	40	-	0.0085	64	65	9.8
STL70N4LLF5	PowerFLAT 5x6 WF	Automotive	-	40	0.009	0.0067	18	4.8	12.9
STL76DN4LF7AG	PowerFLAT 5x6 double island WF	Automotive	STripFET F7	40	0.012	0.006	40	71	17
STL7DN6LF3	PowerFLAT 5x6 double island WF	Automotive	STripFET F3	60	0.06	0.043	6.5	52	8.7
STL7N10F7	PowerFLAT 3.3x3.3	Industrial	STripFET F7	100	-	0.035	7	50	14
STL7N6F7	PowerFLAT 2x2	Industrial	STripFET F7	60	-	0.025	7	2.4	8
STL7N6LF3	PowerFLAT 5x6 WF	Automotive	STripFET F3	60	0.06	0.043	6.5	4.3	8.8

STL8DN10LF3	PowerFLAT 5x6 double island WF	Automotive	STripFET F3	100	0.05	0.035	7.8	4.3	20.5
STL8DN6LF3	PowerFLAT 5x6 double island WF	Automotive	STripFET H6/F6	60	-	0.03	7.8	4.3	13
STL8DN6LF6AG	PowerFLAT 5x6 double island WF	Automotive	STripFET H6/F6	60	0.031	0.027	9.6	32	27
STL8N10F7	PowerFLAT 3.3x3.3	Industrial	STripFET F7	100	-	0.02	8	2.9	25
STL8N10LF3	PowerFLAT 5x6 WF	Automotive	STripFET F3	100	0.05	0.035	7.8	4.3	20.5
STL8N6F7	PowerFLAT 3.3x3.3	Industrial	STripFET F7	60	-	0.023	8	3	8
STL8N6LF6AG	PowerFLAT 5x6 WF	Automotive	STripFET H6/F6	60	0.031	0.027	32	55	27
STL90N10F7	PowerFLAT 5x6	Industrial	STripFET F7	100	-	0.008	70	100	45
STL90N6F7	PowerFLAT 5x6	Industrial	STripFET F7	60	-	0.0054	90	94	30
STL92N10F7AG	PowerFLAT 5x6 WF	Automotive	STripFET F7	100	-	0.0095	16	5	45
STN1NF20	SOT-223	Industrial	STripFET NF/NS	200	-	1.5	1	2	5.7
STN2NF10	SOT-223	Industrial	STripFET NF/NS	100	-	0.26	2.4	3.3	10
STN3NF06	SOT-223	Industrial	STripFET NF/NS	60	-	0.1	3	2.5	10
STN3NF06L	SOT-223	Industrial	STripFET NF/NS	60	0.12	0.1	4	2.5	7
STN4NF06L	SOT-223	Automotive	STripFET NF/NS	60	0.12	0.1	4	3.3	7
STN4NF20L	SOT-223	Industrial	STripFET NF/NS	200	-	1.5	1	3.3	0.9
STP100N10F7	TO-220	Industrial	STripFET F7	100	-	0.008	80	150	61
STP100N6F7	TO-220	Industrial	STripFET F7	60	-	0.0056	100	125	30
STP100N8F6	TO-220	Industrial	STripFET H6/F6	80	-	0.009	100	176	90
STP100NF04	TO-220	Automotive	STripFET NF/NS	40	-	0.0046	120	300	110
STP110N10F7	TO-220	Industrial	STripFET F7	100	-	0.007	110	150	72
STP110N8F6	TO-220	Industrial	STripFET H6/F6	80	-	0.0065	110	200	150
STP120N4F6	TO-220	Automotive	STripFET H6/F6	40	-	0.0043	80	110	65
STP120NF10	TO-220	Industrial	STripFET NF/NS	100	-	0.0105	110	312	172
STP130N6F7	TO-220	Industrial	STripFET F7	60	-	0.005	80	158	45
STP140N6F7	TO-220	Industrial	STripFET F7	60	-	0.003	80	110	40

STP140N8F7	TO-220	Industrial	STripFET F7	80	-	0.0043	90	200	96
STP140NF75	TO-220	Industrial	STripFET NF/NS	75	-	0.0075	120	310	160
STP141NF55	D2PAK	Automotive	STripFET NF/NS	55	-	0.008	80	300	142
STP150N10F7	TO-220	Industrial	STripFET F7	100	-	0.0042	110	250	117
STP150N10F7AG	TO-220	Automotive	STripFET F7	100	-	0.0042	-	250	127
STP150NF04	TO-220	Automotive	STripFET NF/NS	40	-	0.007	80	300	118
STP160N4LF6	TO-220	Industrial	STripFET H6/F6	40	0.0031	0.0029	120	150	181
STP16NF06	TO-220	Industrial	STripFET NF/NS	60	-	0.1	16	45	10
STP180N4F6	TO-220	Industrial	STripFET H6/F6	40	-	0.0027	120	168	130
STP190N55LF3	TO-220	Automotive	STripFET F3	55	-	0.0037	120	312	60
STP19NF20	TO-220	Industrial	STripFET NF/NS	200	-	0.16	11	90	24
STP20NF20	TO-220	Industrial	STripFET NF/NS	200	-	0.125	18	110	28
STP220N6F7	TO-220	Industrial	STripFET F7	60	-	0.0024	120	237	100
STP240N10F7	TO-220	Industrial	STripFET F7	100	-	0.0032	110	300	160
STP24NF10	TO-220	Industrial	STripFET NF/NS	100	-	0.06	26	85	30
STP270N8F7	TO-220	Industrial	STripFET F7	80	-	0.0025	180	315	193
STP30NF10	TO-220	Industrial	STripFET NF/NS	100	-	0.045	30	90	40
STP30NF20	TO-220	Industrial	-	200	-	0.075	30	125	38
STP310N10F7	TO-220	Industrial	STripFET F7	100	-	0.0027	180	315	180
STP315N10F7	TO-220	Automotive	STripFET F7	100	-	0.0027	180	315	180
STP36NF06L	TO-220	Automotive	STripFET H6/F6	60	0.05	0.04	30	70	12
STP40NF10	TO-220	Industrial	STripFET NF/NS	100	-	0.028	50	150	60
STP40NF10L	TO-220	Industrial	STripFET NF/NS	100	-	0.033	40	150	46
STP40NF20	TO-220	Industrial	STripFET NF/NS	200	-	0.045	40	160	75
STP45N10F7	TO-220	Industrial	STripFET F7	100	-	0.016	45	60	25
STP45NF06	TO-220	Industrial	STripFET H6/F6	60	-	0.028	38	80	32

STP55NF06	TO-220	Industrial	STripFET H6/F6	60	-	0.018	50	110	44.5
STP55NF06FP	TO-220FP	Industrial	STripFET H6/F6	60	-	0.018	50	30	44.5
STP55NF06L	TO-220	Industrial	STripFET NF/NS	60	0.02	0.017	35	80	25
STP60NF06	TO-220	Industrial	STripFET NF/NS	60	-	0.016	60	150	49
STP60NF06L	TO-220	Industrial	STripFET NF/NS	60	0.016	0.014	60	110	35
STP60NF10	TO-220	Industrial	STripFET NF/NS	100	-	0.023	80	300	104
STP65NF06	TO-220	Industrial	STripFET NF/NS	60	-	0.014	60	110	54
STP70NS04ZC	TO-220	Automotive	STripFET NF/NS	33	-	0.011	80	180	58
STP75NF20	TO-220	Industrial	STripFET NF/NS	200	-	0.034	75	190	84
STP75NF75	TO-220	Industrial	STripFET NF/NS	75	-	0.011	80	300	117
STP76NF75	TO-220	Automotive	STripFET NF/NS	75	-	0.011	80	300	117
STP80NF10	TO-220	Industrial	STripFET NF/NS	100	-	0.015	80	300	140
STP80NF10FP	TO-220FP	Industrial	STripFET NF/NS	100	-	0.015	38	45	140
STP80NF12	TO-220	Industrial	STripFET NF/NS	120	-	0.018	80	300	140
STP80NF55-06	TO-220	Industrial	STripFET NF/NS	55	-	0.0065	80	300	142
STP80NF55-08	TO-220	Industrial	-	55	-	0.008	80	300	115
STP95N4F3	TO-220	Automotive	STripFET F3	40	-	0.0062	80	110	40
STS4DNF60L	SO-8	Industrial	STripFET NF/NS	60	-	0.055	4	2.5	15
STS5DNF60L	SO-8	Automotive	STripFET NF/NS	60	-	0.045	4	2	15
STS5N15F4	SO-8	Industrial	F4	150	-	0.063	5	2.5	48
STS5NF60L	SO-8	Automotive	STripFET NF/NS	60	-	0.055	5	2.5	17
STS7NF60L	SO-8	Industrial	STripFET NF/NS	60	-	0.0195	7.5	2.5	25
STS8DN6LF6AG	SO-8	Automotive	STripFET H6/F6	60	0.026	0.024	8	3.2	27
STS8N6LF6AG	SO-8	Automotive	STripFET H6/F6	60	0.026	0.024	8	3.2	27
STU6NF10	IPAK	Industrial	STripFET NF/NS	100	-	0.25	6	30	10
STV270N4F3	PowerSO-10	Automotive	STripFET F3	40	-	0.0015	270	300	110

STW75NF20	TO-247	Industrial	StripFET NF/NS	200	-	0.034	75	190	84
STD130N4F6AG	DPAK	Automotive	STripFET H6/F6	40	-	0.0036	80	143	80
STD70N6F3	DPAK	Industrial	STripFET F3	60	-	0.0105	70	110	35
STF40NF06	TO-220FP	Automotive	StripFET NF/NS	60	-	0.028	23	30	32
STH80N10LF7-2AG	H2PAK-2	Automotive	STripFET F7	100	-	0.0095	80	110	45
STLD125N4F6AG	PowerFLAT 5x6 Dual Side Cooling	Automotive	STripFET H6/F6	40	0.0035	0.003	120	130	91
STLD200N4F6AG	PowerFLAT 5x6 Dual Side Cooling	Automotive	STripFET H6/F6	40	0.002	0.0015	120	158	172
STLD257N4F7AG	PowerFLAT 5x6 Dual Side Cooling	Automotive	STripFET F7	40	0.002	0.0011	120	158	172
STP140NF55	TO-220	Industrial	-	55	-	0.008	80	300	142
STP60NF06FP	TO-220FP	Industrial	-	60	-	0.016	30	30	49
STP80NF70	TO-220	Industrial	-	68	-	0.0098	98	190	75

Power Transistors / Power MOSFETs/STPOWER N-channel MOSFETs > 700 V

Part Number	Grade	Package	VDSS (V)	R _{DS(on)} (Ω) (@ V _{GS} = 10V) max	Drain Current (Dc) (A) max	P _{TOT} (W) max	Q _g (nC) typ	Features	Reverse Recovery Time (ns) typ	Q _{rr} (nC) typ	Peak Reverse Current (A) nom
STB10LN80K5	Industrial	D2PAK	800	0.63	8	110	15	-	-	-	-
STB10N95K5	Industrial	D2PAK	950	0.8	8	130	22	-	-	-	-
STB11NM80	Industrial	D2PAK	800	0.4	11	150	43.6	-	-	-	-
STB12NK80Z	Industrial	D2PAK	800	0.75	10.5	190	87	-	-	-	-
STB13N80K5	Industrial	D2PAK	800	0.45	12	190	29	-	-	-	-
STB14N80K5	Industrial	D2PAK	800	0.445	12	130	22	-	-	-	-
STB15N80K5	Industrial	D2PAK	800	0.375	14	190	32	-	-	-	-
STB16N90K5	Industrial	D2PAK	900	0.33	15	190	29.7	-	-	-	-
STB17N80K5	Industrial	D2PAK	800	0.34	14	170	26	-	-	-	-
STB18NM80	Industrial	D2PAK	800	0.295	17	190	70	-	-	-	-
STB20N90K5	Industrial	D2PAK	900	0.25	20	250	40	-	-	-	-
STB20N95K5	Industrial	D2PAK	950	0.33	17.5	250	48	-	-	-	-
STB21N90K5	Industrial	D2PAK	900	0.299	18.5	250	43	-	-	-	-
STB23N80K5	Industrial	D2PAK	800	0.28	16	190	33	-	-	-	-
STB25N80K5	Industrial	D2PAK	800	0.26	19.5	250	40	-	-	-	-
STB30N80K5	Industrial	D2PAK	800	0.18	24	250	43	-	-	-	-
STB5N80K5	Industrial	D2PAK	800	1.75	4	60	5	-	-	-	-
STB6N80K5	Industrial	D2PAK	800	1.6	4.5	85	13	-	-	-	-
STB6NK90ZT4	Industrial	D2PAK	900	2	5.8	140	46.5	-	-	-	-
STB7NK80Z-1	Industrial	I2PAK	800	1.8	5.2	125	40	-	-	-	-
STB8N90K5	Industrial	D2PAK	900	0.68	8	130	11	-	-	-	-
STB9NK80Z	Automotive	D2PAK	800	1.8	5.2	125	40	-	-	-	-
STB9NK90Z	Industrial	D2PAK	800	1.3	8	160	72	-	-	-	-
STD10LN80K5	Industrial	DPAK	800	0.63	8	110	15	-	-	-	-
STD1NK80ZT4	Industrial	DPAK	800	16	1	45	7.7	-	-	-	-
STD2N105K5	Industrial	DPAK	1050	8	1.5	60	10	-	-	-	-

STD2N80K5	Industrial	DPAK	800	4.5	2	45	5	-	-	-	-
STD2N95K5	Industrial	DPAK	950	5	2	45	10	-	-	-	-
STD2NK100Z	Industrial	DPAK	1000	8.5	1.85	70	16	-	-	-	-
STD2NK90Z-1	Industrial	IPAK	900	6.5	2.1	70	19.5	-	-	-	-
STD2NK90ZT4	Industrial	DPAK	900	6.5	2.1	70	19.5	-	-	-	-
STD3LN80K5	Industrial	DPAK	800	3.25	2	45	2.63	-	-	-	-
STD3N80K5	Industrial	DPAK	800	3.5	2.5	60	9.5	-	-	-	-
STD3N95K5AG	Automotive	DPAK	950	5	2	45	3.4	-	-	-	-
STD3NK100Z	Industrial	DPAK	1000	6	2.5	90	18	-	-	-	-
STD3NK80Z-1	Industrial	IPAK	800	4.5	2.5	70	19	-	-	-	-
STD3NK80ZT4	Industrial	DPAK	800	4.5	2.5	70	19	-	-	-	-
STD3NK90ZT4	Industrial	DPAK	900	4.8	3	90	22.7	-	-	-	-
STD4LN80K5	Industrial	DPAK	800	2.6	3	60	3.7	-	-	-	-
STD4N80K5	Industrial	DPAK	800	2.5	3	60	10.5	-	-	-	-
STD4N90K5	Industrial	DPAK	900	2.1	3	60	5.3	-	-	-	-
STD4NK100Z	Automotive	DPAK	1000	6.8	2.2	90	18	-	-	-	-
STD4NK80Z-1	Industrial	IPAK	800	3.5	3	80	22.5	-	-	-	-
STD4NK80ZT4	Industrial	DPAK	800	3.5	3	80	22.5	-	-	-	-
STD5N80K5	Industrial	DPAK	800	1.75	4	60	5	-	-	-	-
STD5N95K3	Industrial	DPAK	950	3.5	4	90	19	-	-	-	-
STD5N95K5	Industrial	DPAK	950	2.5	3.5	70	12.5	-	-	-	-
STD6N80K5	Industrial	DPAK	800	1.6	4.5	85	13	-	-	-	-
STD6N90K5	Industrial	DPAK	900	1.1	6	110	11	-	-	-	-
STD6N95K5	Industrial	DPAK	950	1.25	9	90	13	-	-	-	-
STD7LN80K5	Industrial	DPAK	800	1.15	5	85	12	-	-	-	-
STD7N80K5	Industrial	DPAK	800	1.2	6	110	13.4	-	-	-	-
STD7N90K5	Industrial	DPAK	900	0.81	7	90	12	-	-	-	-
STD7N95K5AG	Automotive	DPAK	950	1.25	9	110	9.6	Fast recovery diode	420	4800	17
STD7NM80	Industrial	DPAK	800	1.05	6.5	90	18	-	-	-	-

STD80N240K6	Industrial	DPAK	800	0.22	16	140	25.9	-	-	-	-
STD80N340K6	Industrial	DPAK	800	0.34	12	100	17.8	-	-	-	-
STD80N450K6	Industrial	DPAK	800	0.45	10	83	17.3	-	-	-	-
STD8N80K5	Industrial	DPAK	800	0.95	6	110	16.5	-	-	-	-
STD9N80K5	Industrial	DPAK	800	0.9	7	110	12	-	-	-	-
STF10LN80K5	Industrial	TO-220FP	800	0.63	8	25	15	-	-	-	-
STF10N105K5	Industrial	TO-220FP	1050	1.3	6	30	21.5	-	-	-	-
STF10N80K5	Industrial	TO-220FP	800	0.6	9	30	22	-	-	-	-
STF10N95K5	Industrial	TO-220FP	950	0.8	8	30	22	-	-	-	-
STF11NM80	Industrial	TO-220FP	800	0.4	11	35	43.6	-	-	-	-
STF12N120K5	Industrial	TO-220FP	1200	0.69	12	40	44.2	-	-	-	-
STF12NK80Z	Industrial	TO-220FP	800	0.75	10.5	40	87	-	-	-	-
STF13N80K5	Industrial	TO-220FP	800	0.45	12	35	29	-	-	-	-
STF13N95K3	Industrial	TO-220FP	950	0.85	10	40	51	-	-	-	-
STF14N80K5	Industrial	TO-220FP	800	0.445	12	30	22	-	-	-	-
STF15N80K5	Industrial	TO-220FP	800	0.375	14	35	32	-	-	-	-
STF15N95K5	Industrial	TO-220FP	950	0.5	12	30	27	-	-	-	-
STF16N90K5	Industrial	TO-220FP	900	0.33	15	30	29.7	-	-	-	-
STF17N80K5	Industrial	TO-220FP	800	0.34	14	30	26	-	-	-	-
STF18NM80	Industrial	TO-220FP	800	0.295	17	40	70	-	-	-	-
STF20N90K5	Industrial	TO-220FP	900	0.25	20	40	40	-	-	-	-
STF20N95DK5	Industrial	TO-220FP	950	0.33	18	28	50.7	Fast recovery diode	150	1000	13.5
STF20N95K5	Industrial	TO-220FP	950	0.33	17.5	40	48	-	-	-	-
STF21N90K5	Industrial	TO-220FP	900	0.299	18.5	40	43	-	-	-	-
STF23N80K5	Industrial	TO-220FP	800	0.28	16	35	33	-	-	-	-
STF25N80K5	Industrial	TO-220FP	800	0.26	19.5	40	40	-	-	-	-
STF2N80K5	Industrial	TO-220FP	800	4.5	2	20	5	-	-	-	-
STF2N95K5	Industrial	TO-220FP	950	5	2	20	10	-	-	-	-
STF3LN80K5	Industrial	TO-220FP	800	3.25	2	20	2.63	-	-	-	-

STF3N80K5	Industrial	TO-220FP	800	3.5	2.5	20	9.5	-	-	-	-
STF3NK100Z	Industrial	TO-220FP	1000	6	2.5	25	18	-	-	-	-
STF3NK80Z	Industrial	TO-220FP	800	4.5	2.5	25	19	-	-	-	-
STF4LN80K5	Industrial	TO-220FP	800	2.6	3	20	3.7	-	-	-	-
STF4N80K5	Industrial	TO-220FP	800	2.5	2.5	60	10.5	-	-	-	-
STF4N90K5	Industrial	TO-220FP	900	2.1	4	20	5.3	-	-	-	-
STF5N105K5	Industrial	TO-220FP	1050	3.5	3	25	12.5	-	-	-	-
STF5N80K5	Industrial	TO-220FP	800	1.75	4	20	5	-	-	-	-
STF5N95K3	Industrial	TO-220FP	950	3.5	4	25	19	-	-	-	-
STF5N95K5	Industrial	TO-220FP	950	2.5	3.5	25	12.5	-	-	-	-
STF5NK100Z	Industrial	TO-220FP	1000	3.7	3.5	30	42	-	-	-	-
STF6N80K5	Industrial	TO-220FP	800	1.6	4.5	25	13	-	-	-	-
STF6N90K5	Industrial	TO-220FP	900	1.1	6	25	11	-	-	-	-
STF6N95K5	Industrial	TO-220FP	950	1.25	9	25	13	-	-	-	-
STF7LN80K5	Industrial	TO-220FP	800	1.15	5	25	12	-	-	-	-
STF7N105K5	Industrial	TO-220FP	1050	2	4	25	11	-	-	-	-
STF7N80K5	Industrial	TO-220FP	800	1.2	6	25	13.4	-	-	-	-
STF7N90K5	Industrial	TO-220FP	900	0.81	7	25	12	-	-	-	-
STF7N95K3	Industrial	TO-220FP	950	1.35	7.2	35	34	-	-	-	-
STF7NM80	Industrial	TO-220FP	800	1.05	6.5	25	18	-	-	-	-
STF8N80K5	Industrial	TO-220FP	800	0.95	6	25	16.5	-	-	-	-
STF8N90K5	Industrial	TO-220FP	900	0.68	8	30	11	-	-	-	-
STF8NK100Z	Industrial	TO-220FP	1000	1.85	6.5	40	73	-	-	-	-
STF9N80K5	Industrial	TO-220FP	800	0.9	7	25	12	-	-	-	-
STF9NK90Z	Industrial	TO-220FP	900	1.3	8	40	72	-	-	-	-
STFH12N105K5	Industrial	TO-220FP wide creepage	1050	1	8	29	18.4	-	-	-	-
STFU10N80K5	Industrial	TO-220FP ultra narrow leads	800	0.6	9	30	22	-	-	-	-
STFU13N80K5	Industrial	TO-220FP ultra narrow leads	800	0.45	12	35	29	-	-	-	-
STFU14N80K5	Industrial	TO-220FP ultra narrow leads	800	0.445	12	30	22	-	-	-	-

STFU15N80K5	Industrial	TO-220FP ultra narrow leads	800	0.375	14	35	32	-	-	-	-
STFU23N80K5	Industrial	TO-220FP ultra narrow leads	800	0.28	16	35	33	-	-	-	-
STFW12N120K5	Industrial	TO-3PF	1200	0.69	12	63	44.2	-	-	-	-
STFW1N105K3	Industrial	TO-3PF	1050	11	1.4	20	13	-	-	-	-
STFW2N105K5	Industrial	TO-3PF	1050	8	1.5	30	10	-	-	-	-
STFW3N150	Industrial	TO-3PF	1500	9	2.5	63	29.3	-	-	-	-
STFW3N170	Industrial	TO-3PF	1700	13	2.6	63	44	-	-	-	-
STFW4N150	Industrial	TO-3PF	1500	7	4	63	30	-	-	-	-
STFW8N120K5	Industrial	TO-3PF	1200	2	6	48	13.7	-	-	-	-
STH10N80K5-2AG	Automotive	H2PAK-2	800	0.68	8	121	17.3	-	-	-	-
STH12N120K5-2	Industrial	H2PAK-2	1200	0.69	12	250	44.2	-	-	-	-
STH12N120K5-2AG	Automotive	H2PAK-2	1200	1.9	7	250	36	-	-	-	-
STH13N120K5-2AG	Automotive	H2PAK-2	1200	0.69	12	250	44.2	-	-	-	-
STH22N95K5-2AG	Automotive	H2PAK-2	950	0.33	17.5	250	48	-	-	-	-
STH2N120K5-2AG	Automotive	H2PAK-2	1200	10	1.5	60	5.3	-	-	-	-
STH3N150-2	Industrial	H2PAK-2	1500	9	2.5	140	29.3	-	-	-	-
STH6N95K5-2	Industrial	H2PAK-2	950	1.25	6	110	13	-	-	-	-
STI6N90K5	Industrial	I2PAK	900	1.1	6	110	11	-	-	-	-
STL10LN80K5	Industrial	PowerFLAT 5x6 VHV	800	0.66	6	42	15	-	-	-	-
STL2N80K5	Industrial	PowerFLAT 5x6 VHV	800	4.9	1.5	33	5	-	-	-	-
STL3N80K5	Industrial	PowerFLAT 5x6 VHV	800	3.5	2	38	9.5	-	-	-	-
STL4LN80K5	Industrial	PowerFLAT 5x6 VHV	800	2.6	2	20	3.7	-	-	-	-
STL4N80K5	Industrial	PowerFLAT 5x6 VHV	800	2.5	2.5	38	10.5	-	-	-	-
STL5N80K5	Industrial	PowerFLAT 5x6 VHV	800	1.75	3	38	5	-	-	-	-
STL7LN80K5	Industrial	PowerFLAT 5x6 VHV	800	1.15	5	42	12	-	-	-	-
STL7N80K5	Industrial	PowerFLAT 5x6 VHV	800	1.2	3.6	42	13.4	-	-	-	-
STL8N80K5	Industrial	PowerFLAT 5x6 VHV	800	0.95	4.5	42	16.5	-	-	-	-
STN1NK80Z	Industrial	SOT-223	800	16	0.25	2.5	7.7	-	-	-	-
STP10LN80K5	Industrial	TO-220	800	0.63	8	110	15	-	-	-	-

STP10N105K5	Industrial	TO-220	1050	1.3	6	130	21.5	-	-	-	-
STP10N80K5	Industrial	TO-220	800	0.6	9	130	22	-	-	-	-
STP10N95K5	Industrial	TO-220	950	0.8	8	130	22	-	-	-	-
STP10NK80Z	Industrial	TO-220	800	0.9	9	160	72	-	-	-	-
STP10NK80ZFP	Industrial	TO-220FP	800	0.9	9	40	72	-	-	-	-
STP11NM80	Industrial	TO-220	800	0.4	11	150	43.6	-	-	-	-
STP12N120K5	Industrial	TO-220	1200	0.69	12	250	44.2	-	-	-	-
STP12NK80Z	Industrial	TO-220	800	0.75	10.5	190	87	-	-	-	-
STP13N80K5	Industrial	TO-220	800	0.45	12	190	29	-	-	-	-
STP13N95K3	Industrial	TO-220	950	0.85	10	190	51	-	-	-	-
STP14N80K5	Industrial	TO-220	800	0.445	12	130	22	-	-	-	-
STP15N80K5	Industrial	TO-220	800	0.375	14	190	32	-	-	-	-
STP15N95K5	Industrial	TO-220	950	0.5	12	170	27	-	-	-	-
STP17N80K5	Industrial	TO-220	800	0.34	14	170	26	-	-	-	-
STP18NM80	Industrial	TO-220	800	0.295	17	190	70	-	-	-	-
STP20N90K5	Industrial	TO-220	900	0.25	20	250	40	-	-	-	-
STP20N95K5	Industrial	TO-220	950	0.33	17.5	250	48	-	-	-	-
STP21N90K5	Industrial	TO-220	900	0.299	18.5	250	43	-	-	-	-
STP23N80K5	Industrial	TO-220	800	0.28	16	190	33	-	-	-	-
STP25N80K5	Industrial	TO-220	800	0.26	19.5	250	40	-	-	-	-
STP2N105K5	Industrial	TO-220	1050	8	1.5	60	10	-	-	-	-
STP2N80K5	Industrial	TO-220	800	4.5	2	45	5	-	-	-	-
STP2N95K5	Industrial	TO-220	950	5	2	45	10	-	-	-	-
STP2NK100Z	Industrial	TO-220	1000	8.5	1.85	70	16	-	-	-	-
STP2NK90Z	Industrial	TO-220	900	6.5	2.1	70	19.5	-	-	-	-
STP3LN80K5	Industrial	TO-220	800	3.25	2	45	2.63	-	-	-	-
STP3N150	Industrial	TO-220	1500	9	2.5	140	29.3	-	-	-	-
STP3NK80Z	Industrial	TO-220	800	4.5	2.5	70	19	-	-	-	-
STP3NK90Z	Industrial	TO-220	900	4.8	3	90	22.7	-	-	-	-

STP3NK90ZFP	Industrial	TO-220FP	900	4.8	3	25	22.7	-	-	-	-
STP4LN80K5	Industrial	TO-220	800	2.6	3	60	3.7	-	-	-	-
STP4N150	Industrial	TO-220	1500	7	4	160	30	-	-	-	-
STP4N80K5	Industrial	TO-220	800	2.5	3	60	10.5	-	-	-	-
STP4N90K5	Industrial	TO-220	900	2.1	3	60	5.3	-	-	-	-
STP4NK80Z	Industrial	TO-220	800	3.5	3	80	22.5	-	-	-	-
STP4NK80ZFP	Industrial	TO-220FP	800	3.5	3	25	22.5	-	-	-	-
STP5N105K5	Industrial	TO-220	1050	3.5	3	85	12.5	-	-	-	-
STP5N80K5	Industrial	TO-220	800	1.75	4	60	5	-	-	-	-
STP5N95K5	Industrial	TO-220	950	2.5	3.5	70	12.5	-	-	-	-
STP5NK100Z	Industrial	TO-220	1000	3.7	3.5	125	42	-	-	-	-
STP5NK80Z	Industrial	TO-220	800	2.4	4.3	110	32.4	-	-	-	-
STP5NK80ZFP	Industrial	TO-220FP	800	2.4	4.3	30	32.4	-	-	-	-
STP6N80K5	Industrial	TO-220	800	1.6	4.5	85	13	-	-	-	-
STP6N90K5	Industrial	TO-220	900	1.1	6	110	11	-	-	-	-
STP6N95K5	Industrial	TO-220	950	1.25	9	90	13	-	-	-	-
STP6NK90Z	Industrial	TO-220	900	2	5.8	140	46.5	-	-	-	-
STP6NK90ZFP	Industrial	TO-220FP	900	2	5.8	30	46.5	-	-	-	-
STP7LN80K5	Industrial	TO-220	800	1.15	5	85	12	-	-	-	-
STP7N105K5	Industrial	TO-220	1050	2	4	110	11	-	-	-	-
STP7N80K5	Industrial	TO-220	800	1.2	6	110	13.4	-	-	-	-
STP7N90K5	Industrial	TO-220	900	0.81	7	110	12	-	-	-	-
STP7N95K3	Industrial	TO-220	950	1.35	7.2	150	34	-	-	-	-
STP7NK80Z	Industrial	TO-220	800	1.8	5.2	125	40	-	-	-	-
STP7NK80ZFP	Industrial	TO-220FP	800	1.8	5.2	30	40	-	-	-	-
STP80N1K1K6	Industrial	TO-220	800	1.1	5	62	5.7	-	-	-	-
STP80N240K6	Industrial	TO-220	800	0.22	16	140	25.9	-	-	-	-
STP80N340K6	Industrial	TO-220	800	0.34	12	115	17.8	-	-	-	-
STP80N450K6	Industrial	TO-220	800	0.45	10	100	17.3	-	-	-	-

STP80N600K6	Industrial	TO-220	800	0.6	7	86	10.7	-	-	-	-
STP80N900K6	Industrial	TO-220	800	0.9	6	68	7	-	-	-	-
STP8N120K5	Industrial	TO-220	1200	2	6	130	13.7	-	-	-	-
STP8N80K5	Industrial	TO-220	800	0.95	6	110	16.5	-	-	-	-
STP8N90K5	Industrial	TO-220	900	0.68	8	130	11	-	-	-	-
STP8NK100Z	Industrial	TO-220	1000	1.85	6.5	160	73	-	-	-	-
STP8NK80Z	Industrial	TO-220	800	1.5	6.2	140	46	-	-	-	-
STP8NK80ZFP	Industrial	TO-220FP	800	1.5	6.2	30	46	-	-	-	-
STP9N80K5	Industrial	TO-220	800	0.9	7	110	12	-	-	-	-
STP9NK90Z	Industrial	TO-220	900	1.3	8	160	72	-	-	-	-
STQ1NK80ZR-AP	Industrial	TO-92	800	16	0.25	2.5	7.7	-	-	-	-
STU2N105K5	Industrial	IPAK	1050	8	1.5	60	10	-	-	-	-
STU2N80K5	Industrial	IPAK	800	4.5	2	45	5	-	-	-	-
STU2N95K5	Industrial	IPAK	950	5	2	45	10	-	-	-	-
STU2NK100Z	Industrial	IPAK	1000	8.5	1.85	70	16	-	-	-	-
STU3LN80K5	Industrial	IPAK	800	3.25	2	45	2.63	-	-	-	-
STU3N80K5	Industrial	IPAK	800	3.5	2.5	60	9.5	-	-	-	-
STU4N80K5	Industrial	IPAK	800	2.5	2.5	60	10.5	-	-	-	-
STU5N95K3	Industrial	IPAK	950	3.5	4	90	19	-	-	-	-
STU6N90K5	Industrial	IPAK	900	1.1	6	110	11	-	-	-	-
STU6N95K5	Industrial	IPAK	950	1.25	9	90	13	-	-	-	-
STU7LN80K5	Industrial	IPAK	800	1.15	5	85	12	-	-	-	-
STU7N105K5	Industrial	IPAK	1050	2	4	110	11	-	-	-	-
STU7N80K5	Industrial	IPAK	800	1.2	6	110	13.4	-	-	-	-
STU8N80K5	Industrial	IPAK	800	0.95	6	110	16.5	-	-	-	-
STW10N105K5	Industrial	TO-247	1050	1.3	6	130	21.5	-	-	-	-
STW10N95K5	Industrial	TO-247	950	0.8	8	130	22	-	-	-	-
STW10NK80Z	Industrial	TO-247	800	0.9	9	160	72	-	-	-	-
STW11NK100Z	Industrial	TO-247	1000	1.28	8.3	230	113	-	-	-	-

STW11NK90Z	Industrial	TO-247	900	0.98	9.2	200	95	-	-	-	-
STW11NM80	Industrial	TO-247	800	0.4	11	150	43.6	-	-	-	-
STW12N120K5	Industrial	TO-247	1200	0.69	12	250	44.2	-	-	-	-
STW12N150K5	Industrial	TO-247	1500	1.9	7	250	47	-	-	-	-
STW12N170K5	Industrial	TO-247	1700	2.9	5	250	37	-	-	-	-
STW12NK80Z	Industrial	TO-247	800	0.75	10.5	190	87	-	-	-	-
STW12NK90Z	Industrial	TO-247	900	0.88	11	230	113	-	-	-	-
STW13N80K5	Industrial	TO-247	800	0.45	12	190	29	-	-	-	-
STW13NK100Z	Industrial	TO-247	1000	0.7	13	350	190	-	-	-	-
STW15N80K5	Industrial	TO-247	800	0.375	14	190	32	-	-	-	-
STW15N95K5	Industrial	TO-247	950	0.5	12	170	27	-	-	-	-
STW15NK90Z	Industrial	TO-247	900	0.55	15	350	190	-	-	-	-
STW18NM80	Industrial	TO-247	800	0.295	17	190	70	-	-	-	-
STW20N90K5	Industrial	TO-247	900	0.25	20	250	40	-	-	-	-
STW20N95DK5	Industrial	TO-247	950	0.33	18	250	50.7	Fast recovery diode	150	1000	13.5
STW20N95K5	Industrial	TO-247	950	0.33	17.5	250	48	-	-	-	-
STW21N150K5	Industrial	TO-247	1500	0.9	14	446	95	-	-	-	-
STW21N90K5	Industrial	TO-247	900	0.299	18.5	250	43	-	-	-	-
STW22N95K5	Automotive	TO-247	950	0.33	17.5	250	48	-	-	-	-
STW23N80K5	Industrial	TO-247	800	0.28	16	190	33	-	-	-	-
STW23N85K5	Industrial	TO-247	850	0.275	19	250	38	-	-	-	-
STW25N80K5	Industrial	TO-247	800	0.26	19.5	250	40	-	-	-	-
STW30N80K5	Industrial	TO-247	800	0.18	24	250	43	-	-	-	-
STW3N150	Industrial	TO-247	1500	9	2.5	140	29.3	-	-	-	-
STW3N170	Industrial	TO-247	1700	13	2.6	160	44	-	-	-	-
STW40N90K5	Industrial	TO-247	900	0.099	40	446	89	-	-	-	-
STW40N95DK5	Industrial	TO-247	950	0.13	38	450	100	Fast recovery diode	170	1400	15
STW40N95K5	Industrial	TO-247	950	0.13	38	450	93	-	-	-	-
STW4N150	Industrial	TO-247	1500	7	4	160	30	-	-	-	-

STW5NK100Z	Industrial	TO-247	1000	3.7	3.5	125	42	-	-	-	-
STW65N80K5	Industrial	TO-247	800	0.08	46	446	92	-	-	-	-
STW6N90K5	Industrial	TO-247	900	1.1	6	110	11	-	-	-	-
STW6N95K5	Industrial	TO-247	950	1.25	9	90	13	-	-	-	-
STW7N105K5	Industrial	TO-247	1050	2	4	110	11	-	-	-	-
STW7N90K5	Industrial	TO-247	900	0.81	7	90	17.7	-	-	-	-
STW7N95K3	Industrial	TO-247	950	1.35	7.2	150	34	-	-	-	-
STW7NK90Z	Industrial	TO-247	900	2	5.8	140	46.5	-	-	-	-
STW8N120K5	Industrial	TO-247	1200	2	6	130	13.7	-	-	-	-
STW8N90K5	Industrial	TO-247	900	0.68	8	130	11	-	-	-	-
STW8NK80Z	Industrial	TO-247	800	1.5	6.2	140	46	-	-	-	-
STW9N150	Industrial	TO-247	1500	2.5	8	320	89.3	-	-	-	-
STW9N80K5	Industrial	TO-247	800	0.9	7	110	12	-	-	-	-
STW9NK90Z	Industrial	TO-247	900	1.3	8	160	72	-	-	-	-
STWA12N120K5	Industrial	TO-247 long leads	1200	0.69	12	250	44.2	-	-	-	-
STWA20N95DK5	Industrial	TO-247 long leads	950	0.33	18	250	50.7	Fast recovery diode	150	1000	13.5
STWA20N95K5	Industrial	TO-247 long leads	950	0.33	17.5	250	48	-	-	-	-
STWA40N90K5	Industrial	TO-247 long leads	900	0.099	40	446	89	-	-	-	-
STWA40N95DK5	Industrial	TO-247 long leads	950	0.13	38	450	100	Fast recovery diode	170	1400	15
STWA40N95K5	Industrial	TO-247 long leads	950	0.13	38	450	93	-	-	-	-
STY50N105DK5	Industrial	Max247	1050	0.12	46	625	204	Fast recovery diode	273	3000	23
STU5N80K5	Industrial	IPAK	800	1.75	4	60	5	-	-	-	-

Power Transistors / Power MOSFETs/STPOWER P-channel MOSFETs -100 V to -30 V

Part Number	Package	Grade	VDSS (V)	R _{DS(on)} (Ω) (@ 4.5/5V) max	R _{DS(on)} (Ω) (@ V _{GS} = 10V) max	Drain Current (Dc) (A) max	P _{TOT} (W) max	Q _g (nC) typ
STD10P10F6	DPAK	Industrial	-100	-	0.18	-10	40	16.5
STD10P6F6	DPAK	Industrial	-60	-	0.16	-10	35	6.4
STD15P6F6AG	DPAK	Automotive	-60	-	0.16	-10	35	6.4
STD26P3LLH6	DPAK	Industrial	-30	0.045	0.03	-24	40	12
STD35P6LLF6	DPAK	Industrial	-60	0.036	0.028	-35	70	30
STD36P4LLF6	DPAK	Industrial	-40	0.029	0.0205	-36	60	22
STD40P8F6AG	DPAK	Automotive	-80	-	0.028	-40	100	73
STD45P4LLF6AG	DPAK	Automotive	-40	0.02	0.015	-50	58	65.5
STD46P4LLF6	DPAK	Industrial	-40	0.02	0.015	-46	70	34
STD52P3LLH6	DPAK	Industrial	-30	0.017	0.012	-52	70	33
STD95P3LLH6AG	DPAK	Automotive	-30	0.0097	0.0069	-80	104	113
STL12P6F6	PowerFLAT 5x6	Industrial	-60	-	0.16	-12	4.8	6.4
STL30P3LLH6	PowerFLAT 5x6	Industrial	-30	0.04	0.03	-30	4.8	12
STL42P4LLF6	PowerFLAT 5x6	Industrial	-40	0.026	0.018	-42	75	22
STL42P6LLF6	PowerFLAT 5x6	Industrial	-60	0.034	0.026	-42	100	30
STL45P3LLH6	PowerFLAT 5x6	Industrial	-30	0.0195	0.013	-45	75	24
STL4P3LLH6	PowerFLAT 2x2	Industrial	-30	0.09	0.056	-4	2.4	6
STL60P4LLF6	PowerFLAT 5x6	Industrial	-40	0.019	0.014	-60	100	34
STL62P3LLH6	PowerFLAT 5x6	Industrial	-30	0.016	0.0105	-62	100	33
STL6P3LLH6	PowerFLAT 3.3x3.3	Industrial	-30	0.05	0.03	-6	2.9	12
STL8P4LLF6	PowerFLAT 3.3x3.3	Industrial	-40	0.029	0.0205	-8	2.9	22
STL9P3LLH6	PowerFLAT 3.3x3.3	Industrial	-30	0.0225	0.015	-9	3	24
STN3P10F6	SOT-223	Industrial	-100	-	0.18	-3	3.3	16.5
STN3P6F6	SOT-223	Industrial	-60	-	0.16	-3	2.6	6.4
STR2P3LLH6	SOT-23	Industrial	-30	0.09	0.056	-2	0.35	6
STS10P3LLH6	SO-8	Industrial	-30	0.017	0.012	-12.5	2.7	33
STS10P4LLF6	SO-8	Industrial	-40	0.015	0.02	-10	2.7	34
STS5P3LLH6	SO-8	Industrial	-30	0.09	0.056	-5	2.7	6
STS6P3LLH6	SO-8	Industrial	-30	0.05	0.03	-6	2.7	12

STS7P4LLF6	SO-8	Industrial	-40	0.029	0.0205	-7	2.7	22
STS9P3LLH6	SO-8	Industrial	-30	0.0225	0.015	-9	2.7	24
STT4P3LLH6	SOT23-6L	Industrial	-30	0.09	0.056	-4	1.6	6

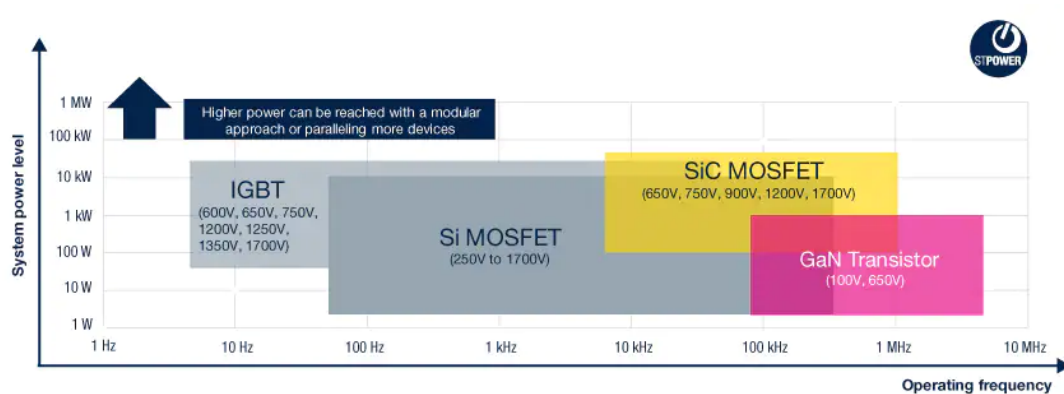
Wide Bandgap Transistors

Overview

The key for the next essential step towards a more energy-efficient world lies in the use of new materials, such as **wide bandgap semiconductors** (WBG) which allow for increased power efficiency, smaller size, lighter weight, lower system cost or all of these together. STMicroelectronics offers the broadest product and technology portfolio of **silicon carbide** (MOSFETs) and **gallium-nitride**-based (e-mode HEMT) devices, covering bare dies, discretes and modules belonging to the **STPOWER** family.

- Silicon carbide (SiC)** has an energy bandgap of 3 electronvolt (eV) and a much higher thermal conductivity compared to silicon (Si). SiC-based MOSFETs are best suited for high-voltage and high-power applications since they combine high power density and higher switching performance with respect to silicon. Our wide portfolio of SiC MOSFETs ensures developers can find the device that perfectly matches their design requirements from our G1 devices with a very stable on-state resistance ($R_{DS(on)}$) in function of temperature to the high-speed switching characteristics of our latest G3 SiC MOSFETs. This translates into tighter design margins, increasing the performance of your designs. Across a wide range of clusters from 650 to 2200 V, our SiC MOSFETs are ideal for industrial and automotive applications such as traction inverters, on-board chargers, fast charging stations, DC-DC converters, high-end PFCs, SMPS and auxiliary power supplies as well as UPS, solar inverters, welding equipment and industrial drives. STPOWER SiC MOSFETs are also available in various discrete packages and as bare die.
- Gallium Nitride on silicon substrate (GaN/Si)**, the other member of the WBG family, has an even higher energy bandgap 3.4 eV and substantially higher electron mobility than SiC itself. Compared to silicon, the breakdown field is ten times higher and the electron mobility is double. Both the output charge and gate charge are ten times lower than with Si, and the reverse recovery charge is almost zero which is key to high-frequency operations especially in bridge topologies. GaN lends itself to be used in a large variety of applications and is the technology of choice in modern resonant topologies allowing designers to attain far higher efficiencies. By virtue of its properties the GaN HeMT (High electron mobility transistor) will be widely used in electric vehicles but also in industrial, telecom, and specific consumer applications across both the **100 V**, the **650 V** and **900 V** clusters.

STPOWER SiC and **GaN** power transistors represent the natural evolution from silicon-based products towards the need for better efficiency, reduced equipment form factor, therefore compliance with the noble goal of making our environment greener and more “enjoyable”.



Technology	Applications
SiC MOSFET	High power DC/DC, UPS, charging station, main traction inverters, OBC, ...
GaN Transistors	SMPS, Telecom Power, DC/DC, OBC, PV inverters, LiDAR, ...

Power Transistors / Wide Bandgap Transistors /STPOWER GaN Transistors

Part Number	Grade	Package	VDS (V) nom	R _{DS(on)} (mΩ) max	Drain Current (Dc) (A) max	P _{tot} (W) max	Q _g (nC) typ	Q _{rr} (nC) typ	Technology
SGT120R65AL	Industrial	POWERFLAT 5X6 HV FOR POWERGAN	650	120	15	192	3	0	e-mode GaN
SGT65R65AL	Industrial	POWERFLAT 5X6 HV FOR POWERGAN	650	65	25	305	5.4	0	e-mode GaN

Power Transistors / Wide Bandgap Transistors /STPOWER SiC MOSFETs

Part Number	Grade	Package	VDSS (V) nom	R _{DS(on)} (mΩ) max	Drain Current (Dc) (A) max	P _{TOT} (W) max	Q _g (nC) typ
SCT011H75G3AG	Automotive	H2PAK-7	750	15	110	652	144
SCT012H90G3AG	Automotive	H2PAK-7	900	15.8	110	625	138
SCT012W90G3AG	Automotive	HIP247	900	15.8	110	625	138
SCT015W120G3-4AG	Automotive	HIP247-4	1200	17.5	129	673	167
SCT018H65G3-7	Industrial	H2PAK-7	650	27	55	385	79.4
SCT018H65G3AG	Automotive	H2PAK-7	650	27	55	385	79.4
SCT020H120G3AG	Automotive	H2PAK-7	1200	28	100	281	121
SCT020W120G3-4AG	Automotive	HIP247-4	1200	28	100	547	121
SCT025H120G3AG	Automotive	H2PAK-7	1200	37	55	375	73
SCT025W120G3-4AG	Automotive	HIP247-4	1200	37	56	388	73
SCT027H65G3AG	Automotive	H2PAK-7	650	39.3	60	300	48.6
SCT027W65G3-4AG	Automotive	HIP247-4	650	39.3	60	313	51
SCT040H120G3-7	Industrial	H2PAK-7	1200	40	40	300	54
SCT040H120G3AG	Automotive	H2PAK-7	1200	40	40	300	54
SCT040H65G3-7	Industrial	H2PAK-7	650	55	30	221	39.5
SCT040H65G3AG	Automotive	H2PAK-7	650	55	30	221	39.5
SCT040H65G3SAG	Automotive	H2PAK-7 straight leads	650	55	30	221	39.5
SCT040HU65G3AG	Automotive	HU3PAK	650	55	30	221	39.5
SCT040W120G3	Industrial	HIP247	1200	40	40	312	56
SCT040W120G3-4	Industrial	HIP247-4	1200	54	40	312	56
SCT040W120G3-4AG	Automotive	HIP247-4	1200	54	40	312	56
SCT040W120G3AG	Automotive	HIP247	1200	40	40	312	56
SCT055H65G3-7	Industrial	H2PAK-7	650	72	30	185	29
SCT055H65G3AG	Automotive	H2PAK-7	650	72	30	185	29
SCT055HU65G3AG	Automotive	HU3PAK	650	72	30	185	29
SCT055W65G3-4AG	Automotive	HIP247-4	650	72	30	210	32
SCT060HU75G3AG	Automotive	HU3PAK	750	78	30	185	29
SCT070H120G3-7	Industrial	H2PAK-7	1200	87	30	223	37
SCT070H120G3AG	Automotive	H2PAK-7	1200	87	30	223	37

SCT070HU120G3AG	Automotive	HU3PAK	1200	87	30	223	37
SCT070W120G3-4	Industrial	HIP247-4	1200	87	30	236	41
SCT070W120G3-4AG	Automotive	HIP247-4	1200	87	30	236	41
SCT070W120G3AG	Automotive	HIP247	1200	87	30	236	41
SCT1000N170	Industrial	HIP247	1700	1300	7	96	13.3
SCT1000N170AG	Automotive	HIP247	1700	1300	7	96	13.3
SCT10N120	Industrial	HIP247	1200	690	12	150	22
SCT10N120AG	Automotive	HIP247	1200	690	12	150	22
SCT20N120	Industrial	HIP247	1200	239	20	175	45
SCT20N120AG	Automotive	HIP247	1200	239	20	153	45
SCT20N120H	Industrial	H2PAK-2	1200	239	20	175	45
SCT20N170	Industrial	HIP247	1700	86	43	313	101
SCT20N170AG	Automotive	HIP247	1700	86	43	313	101
SCT30N120	Industrial	HIP247	1200	100	45	270	105
SCT30N120H	Industrial	H2PAK-2	1200	100	45	270	105
SCT50N120	Industrial	HIP247	1200	69	65	318	122
SCTH100N120G2-AG	Automotive	H2PAK-7	1200	39	75	484	163
SCTH100N65G2-7AG	Automotive	H2PAK-7	650	26	95	360	162
SCTH35N65G2V-7	Industrial	H2PAK-7	650	67	45	208	73
SCTH35N65G2V-7AG	Automotive	H2PAK-7	650	67	45	208	73
SCTH40N120G2V-7	Industrial	H2PAK-7	1200	100	36	238	61
SCTH40N120G2V7AG	Automotive	H2PAK-7	1200	105	33	250	63
SCTH60N120G2-7	Industrial	H2PAK-7	1200	52	60	388	94
SCTH70N120G2V-7	Industrial	H2PAK-7	1200	30	90	469	150
SCTH90N65G2V-7	Industrial	H2PAK-7	650	24	116	484	157
SCTHS200N120G3AG	Automotive	STPAK	1200	13	170	875	253
SCTHS250N65G2G	Automotive	STPAK	650	10.9	250	790	400
SCTHS250N65G3	Automotive,Industrial	STPAK	650	10	237	795	208
SCTHS300N75G3AG	Automotive	STPAK	750	8.8	300	972	303
SCTL35N65G2V	Industrial	PowerFLAT 8x8 HV	650	67	40	417	73
SCTL90N65G2V	Industrial	PowerFLAT 8x8 HV	650	24	40	935	157
SCTW100N120G2AG	Automotive	HIP247	1200	39	75	565	163
SCTW100N65G2AG	Automotive	HIP247	650	26	100	420	162

SCTW35N65G2V	Industrial	HIP247	650	67	45	240	73
SCTW35N65G2VAG	Automotive	HIP247	650	67	45	240	73
SCTW40N120G2V	Industrial	HIP247	1200	100	36	278	61
SCTW40N120G2VAG	Automotive	HIP247	1200	105	33	290	63
SCTW60N120G2	Industrial	HIP247	1200	52	60	388	94
SCTW60N120G2AG	Automotive	HIP247	1200	58	52	388	101
SCTW70N120G2V	Industrial	HIP247	1200	30	91	547	150
SCTW90N65G2V	Industrial	HIP247	650	24	119	565	157
SCTWA20N120	Industrial	HIP247 long leads	1200	239	20	175	45
SCTWA30N120	Industrial	HIP247 long leads	1200	100	45	270	105
SCTWA35N65G2V	Industrial	HIP247 long leads	650	67	45	240	73
SCTWA35N65G2V-4	Industrial	HiP247-4	650	67	45	240	73
SCTWA40N120G2AG	Automotive	HIP247 long leads	1200	105	33	290	63
SCTWA40N120G2V	Industrial	HIP247 long leads	1200	100	36	278	61
SCTWA40N120G2V-4	Industrial	HiP247-4	1200	100	36	278	61
SCTWA40N12G24AG	Automotive	HiP247-4	1200	105	33	290	63
SCTWA50N120	Industrial	HIP247 long leads	1200	69	65	318	122
SCTWA60N120G2-4	Industrial	HIP247-4	1200	52	60	388	94
SCTWA60N120G2AG	Automotive	HIP247 long leads	1200	58	52	388	101
SCTWA60N12G2-4AG	Automotive	HIP247-4	1200	58	52	388	101
SCTWA70N120G2V	Industrial	HIP247 long leads	1200	30	91	547	150
SCTWA70N120G2V-4	Industrial	HiP247-4	1200	30	91	547	150
SCTWA90N65G2V	Industrial	HIP247 long leads	650	24	119	565	157
SCTWA90N65G2V-4	Industrial	HiP247-4	650	24	119	565	157

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Калининград (4012)72-03-81	Омск (3812)21-46-40	Сыктывкар (8212)25-95-17
Ангарск (3955)60-70-56	Калуга (4842)92-23-67	Орел (4862)44-53-42	Тамбов (4752)50-40-97
Архангельск (8182)63-90-72	Кемерово (3842)65-04-62	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Киров (8332)68-02-04	Пенза (8412)22-31-16	Тольятти (8482)63-91-07
Барнаул (3852)73-04-60	Коломна (4966)23-41-49	Петрозаводск (8142)55-98-37	Томск (3822)98-41-53
Белгород (4722)40-23-64	Кострома (4942)77-07-48	Псков (8112)59-10-37	Тула (4872)33-79-87
Благовещенск (4162)22-76-07	Краснодар (861)203-40-90	Пермь (342)205-81-47	Тюмень (3452)66-21-18
Брянск (4832)59-03-52	Красноярск (391)204-63-61	Ростов-на-Дону (863)308-18-15	Ульяновск (8422)24-23-59
Владивосток (423)249-28-31	Курск (4712)77-13-04	Рязань (4912)46-61-64	Улан-Удэ (3012)59-97-51
Владикавказ (8672)28-90-48	Курган (3522)50-90-47	Самара (846)206-03-16	Уфа (347)229-48-12
Владимир (4922)49-43-18	Липецк (4742)52-20-81	Саранск (8342)22-96-24	Хабаровск (4212)92-98-04
Волгоград (844)278-03-48	Магнитогорск (3519)55-03-13	Санкт-Петербург (812)309-46-40	Чебоксары (8352)28-53-07
Вологда (8172)26-41-59	Москва (495)268-04-70	Саратов (845)249-38-78	Челябинск (351)202-03-61
Воронеж (473)204-51-73	Мурманск (8152)59-64-93	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Екатеринбург (343)384-55-89	Набережные Челны (8552)20-53-41	Симферополь (3652)67-13-56	Чита (3022)38-34-83
Иваново (4932)77-34-06	Нижний Новгород (831)429-08-12	Смоленск (4812)29-41-54	Якутск (4112)23-90-97
Ижевск (3412)26-03-58	Новокузнецк (3843)20-46-81	Сочи (862)225-72-31	Ярославль (4852)69-52-93
Иркутск (395)279-98-46	Ноябрьск (3496)41-32-12	Ставрополь (8652)20-65-13	
Казань (843)206-01-48	Новосибирск (383)227-86-73	Сургут (3462)77-98-35	
Россия +7(495)268-04-70	Киргизия +996(312)-96-26-47	Казахстан +7(7172)727-132	