

SIEMENS

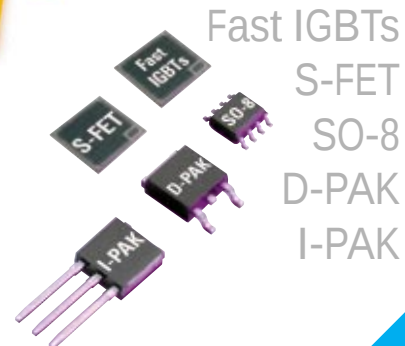
Power is our Core Competence



Power Semiconductors

MOS Transistors
IGBTs
Duo-Packs
FREDs

New!



MOS-Transistors in alphanumeric order

Type	V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Package
BS 107	200	26.00	0.8... 2.0	0.13	TO-92
BS 170	60	5.00	0.8... 2.0	0.30	TO-92
BSO 307N	30	0.075	1.2... 2.0	4.2	SO-8
BSO 615N	60	0.15	1.2... 2.0	2.6	SO-8
BSO 615NV	60	0.12	2.1... 4.0	3.1	SO-8
BSP 88	240	8.00	0.6... 1.2	0.32	SOT-223
BSP 89	240	6.00	0.8... 2.0	0.36	SOT-223
BSP 92	-240	20.00	-2.0...-0.8	-0.20	SOT-223
BSP 123	100	6.00	0.8... 2.0	0.38	SOT-223
BSP 125	600	45.00	1.5... 2.5	0.12	SOT-223
BSP 129	240	20.00	-1.8...-0.7	0.25	SOT-223
BSP 135	600	60.00	-1.8...-0.7	0.10	SOT-223
BSP 149	200	3.50	-1.8...-0.7	0.48	SOT-223
BSP 170	-60	0.35	-4.0...-2.1	-1.70	SOT-223
BSP 171	-60	0.35	-2.0...-0.8	-1.70	SOT-223
BSP 295	50	0.30	0.8... 2.0	1.80	SOT-223
BSP 296	100	0.80	0.8... 2.0	1.00	SOT-223
BSP 297	200	2.00	0.8... 2.0	0.65	SOT-223
BSP 298	400	3.00	2.1... 4.0	0.50	SOT-223
BSP 299	500	4.00	2.1... 4.0	0.40	SOT-223
BSP 300	800	20.00	2.1... 4.0	0.19	SOT-223
BSP 315	-50	0.80	-2.0...-0.8	-1.10	SOT-223
BSP 316	-100	2.20	-2.0...-0.8	-0.65	SOT-223
BSP 317	-200	6.00	-2.0...-0.8	-0.37	SOT-223
BSP 318S	60	0.15	1.2... 2.0	2.60	SOT-223
BSP 319 	50	0.07	1.2... 2.0	3.80	SOT-223
BSP 320S	60	0.12	2.1... 4.0	2.90	SOT-223
BSP 324	400	25.00	1.5... 2.5	0.17	SOT-223
BSP 372	100	0.31	0.8... 2.0	1.70	SOT-223
BSP 373	100	0.30	2.1... 4.0	1.70	SOT-223
BSS 84	-50	10.00	-2.0... 0.8	-0.13	SOT-23
BSS 87	240	6.00	0.8... 2.0	0.29	SOT-89
BSS 88	240	8.00	0.6... 1.2	0.25	TO-92
BSS 89	240	6.00	0.8... 2.0	0.29	TO-92
BSS 92	-240	20.00	-2.0...-0.8	-0.10	TO-92
BSS 98	50	3.50	0.8... 1.6	0.30	TO-92
BSS 100	100	6.00	0.8... 2.0	0.22	TO-92
BSS 101	240	16.00	0.8... 2.0	0.13	TO-92
BSS 110	-50	10.00	-2.0...-0.8	-0.1	TO-92
BSS 119	100	6.00	1.6... 2.6	0.17	SOT-23
BSS 123	100	6.00	0.8... 2.0	0.17	SOT-23
BSS 124	400	28.00	1.5... 2.5	0.12	TO-92
BSS 125	600	45.00	1.5... 2.5	0.10	TO-92
BSS 129	240	20.00	-1.8...-0.7	0.15	TO-92
BSS 131	240	16.00	0.8... 2.0	0.10	SOT-23
BSS 135	600	60.00	-1.8...-0.7	0.08	TO-92
BSS 138	50	3.50	0.8... 1.6	0.22	SOT-23
BSS 139	250	100.00	-1.8...-0.7	0.04	SOT-23
BSS 145	65	3.50	1.4... 2.3	0.22	SOT-23
BSS 149	200	3.50	-1.8...-0.7	0.35	TO-92
BSS 159	50	8.00	-3.0...-1.5	0.16	SOT-23
BSS 169	100	12.00	-3.0...-1.5	0.12	SOT-23

Type	V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Package
BSS 192	-240	20.00	-2.0...-0.8	-0.15	SOT-89
BSS 229	250	100.00	-1.8...-0.7	0.07	TO-92
BSS 284	-50	10.00	-1.6... 0.8	-0.13	SOT-23
BSS 295	50	0.30	0.8... 2.0	1.40	TO-92
BSS 296	100	0.80	0.8... 2.0	0.80	TO-92
BSS 297	200	2.00	0.8... 2.0	0.48	TO-92
BSS 7728	60	7.50	1.0... 2.5	0.15	SOT-23
BUZ 20	100	0.20	2.1... 4.0	13.50	TO-220
BUZ 21	100	0.085	2.1... 4.0	21.00	TO-220
BUZ 21L	100	0.085	1.2... 2.0	21.00	TO-220
BUZ 22	100	0.055	2.1... 4.0	34.00	TO-220
BUZ 30A	200	0.130	2.1... 4.0	21.00	TO-220
BUZ 31	200	0.200	2.1... 4.0	13.50	TO-220
BUZ 31L	200	0.200	1.2... 2.0	13.50	TO-220
BUZ 32	200	0.400	2.1... 4.0	9.50	TO-220
BUZ 40B	500	0.800	2.1... 4.0	8.00	TO-220
BUZ 41A	500	1.500	2.1... 4.0	4.50	TO-220
BUZ 42	500	2.000	2.1... 4.0	4.00	TO-220
BUZ 50A	1000	5.000	2.1... 4.0	2.50	TO-220
BUZ 50B	1000	8.000	2.1... 4.0	2.00	TO-220
BUZ 50C	1000	6.000	2.1... 4.0	2.30	TO-220
BUZ 51	1000	4.000	2.1... 4.0	3.40	TO-220
BUZ 60	400	1.000	2.1... 4.0	5.50	TO-220
BUZ 61	400	0.400	2.1... 4.0	12.50	TO-220
BUZ 61A	400	0.500	2.1... 4.0	11.00	TO-220
BUZ 72	100	0.200	2.1... 4.0	10.00	TO-220
BUZ 72A	100	0.250	2.1... 4.0	9.00	TO-220
BUZ 72AL	100	0.250	1.2... 2.0	9.00	TO-220
BUZ 72L	100	0.200	1.2... 2.0	10.00	TO-220
BUZ 73	200	0.400	2.1... 4.0	7.00	TO-220
BUZ 73A	200	0.600	2.1... 4.0	5.80	TO-220
BUZ 73AL	200	0.600	1.2... 2.0	5.80	TO-220
BUZ 73L	200	0.400	1.2... 2.0	7.00	TO-220
BUZ 74	500	3.000	2.1... 4.0	2.40	TO-220
BUZ 74A	500	4.000	2.1... 4.0	2.10	TO-220
BUZ 76	400	1.800	2.1... 4.0	3.00	TO-220
BUZ 76A	400	2.500	2.1... 4.0	2.60	TO-220
BUZ 77A	600	4.000	2.1... 4.0	2.10	TO-220
BUZ 77B	600	3.500	2.1... 4.0	2.90	TO-220
BUZ 78	800	8.000	2.1... 4.0	1.50	TO-220
BUZ 80	800	4.000	2.1... 4.0	2.60	TO-220
BUZ 80A	800	3.000	2.1... 4.0	3.00	TO-220
BUZ 81	800	2.500	2.1... 4.0	4.00	TO-220
BUZ 90	600	1.600	2.1... 4.0	4.50	TO-220
BUZ 90A	600	2.000	2.1... 4.0	4.00	TO-220
BUZ 91A	600	0.900	2.1... 4.0	8.00	TO-220
BUZ 92	600	3.000	2.1... 4.0	3.20	TO-220
BUZ 93	600	2.500	2.1... 4.0	3.60	TO-220
BUZ 100 	50	0.018	2.1... 4.0	58.00	TO-220
BUZ 100L 	50	0.018	1.2... 2.0	60.00	TO-220
BUZ 100S	55	0.015	2.1... 4.0	77.00	TO-220
BUZ 100SL	55	0.018	1.2... 2.0	70.00	TO-220

 not for new design

Type	V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Package
BUZ 101	50	0.060	2.1... 4.0	29.00	TO-220
BUZ 101L	50	0.060	1.2... 2.0	29.00	TO-220
BUZ 101S	55	0.060	2.1... 4.0	23.00	TO-220
BUZ 101SL	55	0.070	1.2... 2.0	21.00	TO-220
BUZ 102	50	0.023	2.1... 4.0	58.00	TO-220
BUZ 102AL	50	0.028	1.2... 2.0	42.00	TO-220
BUZ 102S	55	0.023	2.1... 4.0	52.00	TO-220
BUZ 102SL	55	0.028	1.2... 2.0	47.00	TO-220
BUZ 103	50	0.040	2.1... 4.0	40.00	TO-220
BUZ 103AL	50	0.050	1.2... 2.0	35.00	TO-220
BUZ 103S	55	0.040	2.1... 4.0	31.00	TO-220
BUZ 103SL	55	0.050	1.2... 2.0	28.00	TO-220
BUZ 104	50	0.100	2.1... 4.0	17.50	TO-220
BUZ 104L	50	0.100	1.2... 2.0	17.50	TO-220
BUZ 104S	55	0.100	2.1... 4.0	14.00	TO-220
BUZ 104SL	55	0.120	1.2... 2.0	12.80	TO-220
BUZ 110S	55	0.012	2.1... 4.0	80.00	TO-220
BUZ 110SL	55	0.015	1.2... 2.0	80.00	TO-220
BUZ 111S	55	0.008	2.1... 4.0	80.00	TO-220
BUZ 111SL	55	0.010	1.2... 2.0	80.00	TO-220
BUZ 171	-50	0.30	-4.0...-2.1	-8.00	TO-220
BUZ 172	-100	0.60	-4.0...-2.1	-5.00	TO-220
BUZ 173	-200	1.50	-4.0...-2.1	-3.00	TO-220
BUZ 271	-50	0.15	-4.0...-2.1	-22.00	TO-220
BUZ 272	-100	0.30	-4.0...-2.1	-15.00	TO-220
BUZ 305	800	1.000	2.1... 4.0	7.50	TO-218
BUZ 307	800	3.000	2.1... 4.0	3.00	TO-218
BUZ 308	800	4.000	2.1... 4.0	2.60	TO-218
BUZ 310	1000	5.000	2.1... 4.0	2.50	TO-218
BUZ 311	1000	6.000	2.1... 4.0	2.30	TO-218
BUZ 312	1000	1.500	2.1... 4.0	6.00	TO-218
BUZ 323	400	0.300	2.1... 4.0	15.00	TO-218
BUZ 325	400	0.350	2.1... 4.0	12.50	TO-218
BUZ 326	400	0.500	2.1... 4.0	10.50	TO-218
BUZ 330	500	0.600	2.1... 4.0	9.50	TO-218
BUZ 331	500	0.800	2.1... 4.0	8.00	TO-218
BUZ 332A	600	0.900	2.1... 4.0	8.00	TO-218
BUZ 334	600	0.500	2.1... 4.0	12.00	TO-218
BUZ 338	500	0.400	2.1... 4.0	13.50	TO-218
BUZ 341	200	0.070	2.1... 4.0	33.00	TO-218
BUZ 342	50	0.010	2.1... 4.0	60.00	TO-218
BUZ 344	100	0.035	2.1... 4.0	46.00	TO-218
BUZ 345	100	0.045	2.1... 4.0	41.00	TO-218
BUZ 349	100	0.060	2.1... 4.0	32.00	TO-218
BUZ 350	200	0.120	2.1... 4.0	22.00	TO-218
BUZ 355	800	1.500	2.1... 4.0	6.00	TO-218
BUZ 356	800	2.000	2.1... 4.0	5.00	TO-218
BUZ 357	1000	2.000	2.1... 4.0	5.00	TO-218
BUZ 358	1000	2.600	2.1... 4.0	4.50	TO-218
SN 7000	60	5.00	0.8... 2.0	0.25	TO-92
SN 7002	60	5.00	0.8... 2.0	0.19	SOT-23
SP0610T	-60	10.00	-2.0...-1.0	-0.13	SOT-23

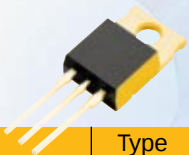
Type	V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Package
SPB30N03	30	0.023	2.1... 4.0	30.00	D ² -PAK
SPB30N03L	30	0.028	1.2... 2.0	30.00	D ² -PAK
SPB46N03	30	0.015	2.1... 4.0	46.00	D ² -PAK
SPB46N03L	30	0.018	1.2... 2.0	46.00	D ² -PAK
SPB80N03	30	0.006	2.1... 4.0	80.00	D ² -PAK
SPB80N03L	30	0.008	1.2... 2.0	80.00	D ² -PAK
SPD02N60	600	5.50	2.1... 4.0	2.00	D-PAK
SPD07N20	200	0.40	2.1... 4.0	7.00	D-PAK
SPD08N05L	55	0.18	1.2... 2.0	8.00	D-PAK
SPD08N10	100	0.30	2.1... 4.0	8.40	D-PAK
SPD08P05	-50	0.30	-4.0...-2.1	-8.00	D-PAK
SPD09N05	55	0.15	2.1... 4.0	9.00	D-PAK
SPD10N10	100	0.20	2.1... 4.0	10.00	D-PAK
SPD13N05L	55	0.12	1.2... 2.0	12.80	D-PAK
SPD14N05	55	0.10	2.1... 4.0	14.00	D-PAK
SPD21N05L	55	0.07	1.2... 2.0	21.00	D-PAK
SPD23N05	55	0.06	2.1... 4.0	23.00	D-PAK
SPD28N03	30	0.023	2.1... 4.0	28.00	D-PAK
SPD28N03L	30	0.028	1.2... 2.0	28.00	D-PAK
SPD28N05L	55	0.05	1.2... 2.0	28.00	D-PAK
SPD30N03	30	0.015	2.1... 4.0	30.00	D-PAK
SPD30N03L	30	0.018	1.2... 2.0	30.00	D-PAK
SPD31N05	55	0.04	2.1... 4.0	31.00	D-PAK
SPP30N03	30	0.023	2.1... 4.0	30.00	TO-220
SPP30N03L	30	0.028	1.2... 2.0	30.00	TO-220
SPP46N03	30	0.015	2.1... 4.0	46.00	TO-220
SPP46N03L	30	0.018	1.2... 2.0	46.00	TO-220
SPP80N03	30	0.006	2.1... 4.0	80.00	TO-220
SPP80N03L	30	0.008	1.2... 2.0	80.00	TO-220
SPU02N60	600	5.50	2.1... 4.0	2.00	I-PAK
SPU07N20	200	0.40	2.1... 4.0	7.00	I-PAK
SPU08N05L	55	0.18	1.2... 2.0	8.00	I-PAK
SPU08N10	100	0.30	2.1... 4.0	8.40	I-PAK
SPU08P05	-50	0.30	-4.0...-2.1	-8.00	I-PAK
SPU09N05	55	0.15	2.1... 4.0	9.00	I-PAK
SPU10N10	100	0.20	2.1... 4.0	10.00	I-PAK
SPU13N05L	55	0.12	1.2... 2.0	12.80	I-PAK
SPU14N05	55	0.10	2.1... 4.0	14.00	I-PAK
SPU21N05L	55	0.07	1.2... 2.0	21.00	I-PAK
SPU23N05	55	0.06	2.1... 4.0	23.00	I-PAK
SPU28N03	30	0.023	2.1... 4.0	28.00	I-PAK
SPU28N03L	30	0.018	1.2... 2.0	28.00	I-PAK
SPU28N05L	55	0.05	1.2... 2.0	28.00	I-PAK
SPU30N03	30	0.015	2.1... 4.0	30.00	I-PAK
SPU30N03L	30	0.018	1.2... 2.0	30.00	I-PAK
SPU31N05	55	0.04	2.1... 4.0	31.00	I-PAK

⚡ not for new design

IGBTs

Fast IGBT
TO-220

V_{CE} [V]	I_C [A]	Type
600	2.0	SGP02N60
	4.0	SGP04N60
	6.0	SGP06N60
	10.0	SGP10N60
	15.0	SGP15N60
	20.0	SGP20N60
	30.0	SGP30N60



Fast IGBT
D-PAK

V_{CE} [V]	I_C [A]	Type
600	2.0	SGD02N60
	4.0	SGD04N60
	6.0	SGD06N60



Fast IGBT
D²PAK

V_{CE} [V]	I_C [A]	Type
600	2.0	SGB02N60
	4.0	SGB04N60
	6.0	SGB06N60
	10.0	SGB10N60
	15.0	SGB15N60
	20.0	SGB20N60
	30.0	SGB30N60



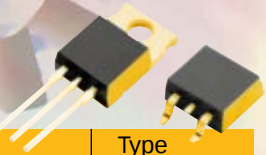
Fast IGBT
I-PAK

V_{CE} [V]	I_C [A]	Type
600	2.0	SGU02N60
	4.0	SGU04N60
	6.0	SGU06N60



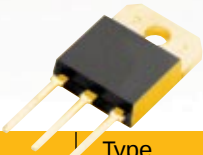
IGBT
TO-220/D²PAK

V_{CE} [V]	I_C [A]	Type
600	22.0	BUP 400
	28.0	BUP 401
	36.0	BUP 402
	49.0	BUP 403
1000	12.0	BUP 202 ⚡
	21.0	BUP 203 ⚡
1200	3.5	BUP 200 ⚡
	30.0	BUP 213



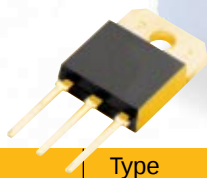
IGBT
TO-218

V_{CE} [V]	I_C [A]	Type
600	80.0	BUP 604
1000	12.0	BUP 302 ⚡
	21.0	BUP 303 ⚡
	35.0	BUP 304 ⚡
1200	3.5	BUP 300 ⚡
	32.0	BUP 313 ⚡
	35.0	BUP 307
	52.0	BUP 314
1600	25.0	BUP 309 ⚡



DUO PACK
TO-218

V_{CE} [V]	I_C [A]	Type
600	36.0	BUP 602D
	42.0	BUP 603D
	12.0	BUP 305D ⚡
1200	21.0	BUP 306D ⚡
	35.0	BUP 307D ⚡
	30.0	BUP 313D
	42.0	BUP 314D



N-Channel Depletion

SOT-23

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
50	8.00	-3.0...-1.5	0.16	BSS 159
100	12.00	-3.0...-1.5	0.12	BSS 169
250	100.00	-1.8...-0.7	0.04	BSS 139



SOT-223

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
200	3.50	-1.8...-0.7	0.48	BSP 149
240	20.00	-1.8...-0.7	0.25	BSP 129
600	60.00	-1.8...-0.7	0.10	BSP 135



TO-92

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
200	3.50	-1.8...-0.7	0.35	BSS 149
240	20.00	-1.8...-0.7	0.15	BSS 129
250	100.00	-1.8...-0.7	0.07	BSS 229
600	60.00	-1.8...-0.7	0.08	BSS 135



P-Channel Enhancement

SOT-23

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
-50	10.00	-1.6...-0.8	-0.13	BSS 284
	10.00	-2.0...-0.8	-0.13	BSS 84
-60	10.00	-2.0...-1.0	-0.13	SP0610T



SOT-89

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
-240	20.00	-2.0...-0.8	-0.15	BSS 192



SOT-223

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
-50	0.80	-2.0...-0.8	-1.10	BSP 315
-60	0.35	-4.0...-2.1	-1.70	BSP 170
	0.35	-2.0...-0.8	-1.70	BSP 171
-100	2.20	-2.0...-0.8	-0.65	BSP 316
-200	6.00	-2.0...-0.8	-0.37	BSP 317
-240	20.00	-2.0...-0.8	-0.20	BSP 92



TO-92

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
-50	10.00	-2.0...-0.8	-0.17	BSS 110
-240	20.00	-2.0...-0.8	-0.15	BSS 92



TO-220/D²PAK

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
-50	0.15	-4.0...-2.1	-22.0	BUZ 271
	0.30	-4.0...-2.1	-8.0	BUZ 171
-100	0.30	-4.0...-2.1	-15.0	BUZ 272
	0.60	-4.0...-2.1	-5.0	BUZ 172
-200	1.50	-4.0...-2.1	-3.0	BUZ 173



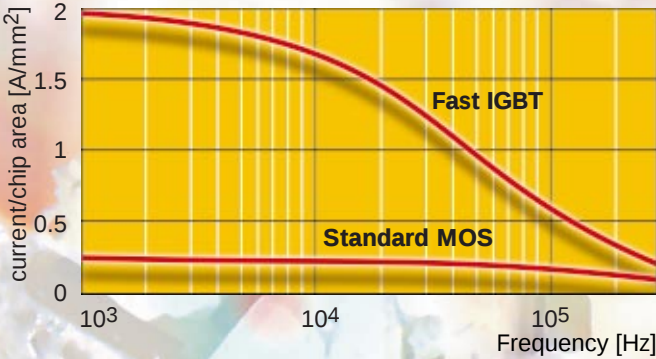
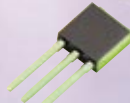
D-PAK

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
-50	0.30	-4.0...-2.1	-8.0	SPD08P05



I-PAK

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
-50	0.30	-4.0...-2.1	-8.0	SPU08P05



⚡ not for new design

N-Channel Enhancement

SOT-23

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
50	3.50	0.8...1.6	0.22	BSS 138
60	5.00	0.8...2.0	0.19	SN 7002
	7.50	1.0...2.5	0.15	BSS 7728
65	3.50	1.4...2.3	0.22	BSS 145
100	6.00	0.8...2.0	0.17	BSS 123
	6.00	1.6...2.6	0.17	BSS 119
240	16.00	0.8...2.0	0.10	BSS 131

TO-92

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
50	0.30	0.8...2.0	1.40	BSS 295
	3.50	0.8...1.6	0.30	BSS 98
60	5.00	0.8...2.0	0.25	SN 7000
	5.00	0.8...2.0	0.30	BS 170
100	0.80	0.8...2.0	0.80	BSS 296
	6.00	0.8...2.0	0.22	BSS 100
200	2.00	0.8...2.0	0.48	BSS 297
	26.00	0.8...2.0	0.13	BS 107
240	6.00	0.8...2.0	0.29	BSS 89
	8.00	0.6...1.2	0.25	BSS 88
	16.00	0.8...2.0	0.13	BSS 101
400	28.00	1.5...2.5	0.12	BSS 124
600	45.00	1.5...2.5	0.10	BSS 125

SOT-223

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
50	0.07	1.2...2.0	3.80	BSP 319
	0.30	0.8...2.0	1.80	BSP 295
60	0.15	1.2...2.0	2.60	BSP 318S
	0.12	2.1...4.0	2.90	BSP 320S
100	0.30	2.1...4.0	1.70	BSP 373
	0.31	0.8...2.0	1.70	BSP 372
	0.80	0.8...2.0	1.00	BSP 296
	6.00	0.8...2.0	0.38	BSP 123
200	2.00	0.8...2.0	0.65	BSP 297
240	6.00	0.8...2.0	0.36	BSP 89
	8.00	0.6...1.2	0.32	BSP 88
400	3.00	2.1...4.0	0.50	BSP 298
	25.00	1.5...2.5	0.17	BSP 324
500	4.00	2.1...4.0	0.40	BSP 299
600	45.00	1.5...2.5	0.12	BSP 125
800	20.00	2.1...4.0	0.19	BSP 300

SO-8 Dual

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
30	0.075	1.2...2.0	4.2	BSO 307N
60	0.15	1.2...2.0	2.6	BSO 615N
	0.12	2.1...4.0	3.1	BSO 615NV

SOT-89

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
240	6.00	0.8...2.0	0.29	BSS 87

Product Numbering System

Siemens	-SPP60N05..	Option
Device		L for Logic Level
P for MOSFET		Voltage: divide through 10
G for IGBT		Channel Polarity
Package Type		N for N-channel
P for TO-220		P for P-channel
B for D ² -PAK		Current: I_{Dmax}
D for D-PAK (TO-252)		
U for I-PAK (TO-251)		

I-PAK

V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
30	0.015	2.1...4.0	30.00	SPU30N03
	0.023	2.1...4.0	28.00	SPU28N03
	0.018	1.2...2.0	30.00	SPU30N03L
	0.028	1.2...2.0	28.00	SPU28N03L
55	0.04	2.1...4.0	31.00	SPU31N05
	0.06	2.1...4.0	23.00	SPU23N05
	0.10	2.1...4.0	14.00	SPU14N05
	0.15	2.1...4.0	9.00	SPU09N05
	0.05	1.2...2.0	28.00	SPU28N05L
	0.07	1.2...2.0	21.00	SPU21N05L
	0.12	1.2...2.0	12.80	SPU13N05L
	0.18	1.2...2.0	8.00	SPU08N05L
100	0.20	2.1...4.0	10.00	SPU10N10
	0.30	2.1...4.0	8.40	SPU08N10
200	0.40	2.1...4.0	7.00	SPU07N20
600	5.50	2.1...4.0	2.00	SPU02N60

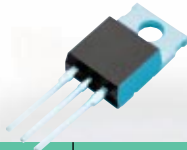
N-Channel Enhancement

D-PAK



V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
30	0.015	2.1...4.0	30.00	SPD30N03
	0.023	2.1...4.0	28.00	SPD28N03
	0.018	1.2...2.0	30.00	SPD30N03L
	0.028	1.2...2.0	28.00	SPD28N03L
55	0.04	2.1...4.0	31.00	SPD31N05
	0.06	2.1...4.0	23.00	SPD23N05
	0.10	2.1...4.0	14.00	SPD14N05
	0.15	2.1...4.0	9.00	SPD09N05
	0.05	1.2...2.0	28.00	SPD28N05L
	0.07	1.2...2.0	21.00	SPD21N05L
	0.12	1.2...2.0	12.80	SPD13N05L
100	0.20	2.1...4.0	10.00	SPD10N10
	0.30	2.1...4.0	8.40	SPD08N10
200	0.40	2.1...4.0	7.00	SPD07N20
600	5.50	2.1...4.0	2.00	SPD02N60

S-FET TO-220



V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
30	0.006	2.1...4.0	80.00	SPP80N03
	0.015	2.1...4.0	46.00	SPP46N03
	0.023	2.1...4.0	30.00	SPP30N03
	0.008	1.2...2.0	80.00	SPP80N03L
	0.018	1.2...2.0	46.00	SPP46N03L
	0.028	1.2...2.0	30.00	SPP30N03L

S-FET D²PAK



V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
30	0.006	2.1...4.0	80.00	SPB80N03
	0.015	2.1...4.0	46.00	SPB46N03
	0.023	2.1...4.0	30.00	SPB30N03
	0.008	1.2...2.0	80.00	SPB80N03L
	0.018	1.2...2.0	46.00	SPB46N03L
	0.028	1.2...2.0	30.00	SPB30N03L

TO-218



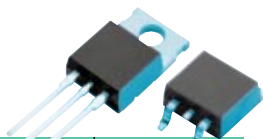
V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
50	0.010	2.1...4.0	60.00	BUZ 342
	0.035	2.1...4.0	46.00	BUZ 344
		2.1...4.0	41.00	BUZ 345
100	0.060	2.1...4.0	32.00	BUZ 349
	0.070	2.1...4.0	33.00	BUZ 341
		2.1...4.0	22.00	BUZ 350
200	0.120	2.1...4.0	22.00	BUZ 350
	0.30	2.1...4.0	15.00	BUZ 323
		2.1...4.0	12.50	BUZ 325
400	0.50	2.1...4.0	10.50	BUZ 326
	0.40	2.1...4.0	13.50	BUZ 338
		2.1...4.0	9.50	BUZ 330
500	0.60	2.1...4.0	8.00	BUZ 331
	0.50	2.1...4.0	12.00	BUZ 334
		2.1...4.0	8.00	BUZ 332A
600	0.90	2.1...4.0	8.00	BUZ 332A
	1.00	2.1...4.0	7.50	BUZ 305
		2.1...4.0	6.00	BUZ 355
800	1.50	2.1...4.0	6.00	BUZ 355
	2.00	2.1...4.0	5.00	BUZ 356
		2.1...4.0	3.00	BUZ 307
1000	3.00	2.1...4.0	3.00	BUZ 307
	4.00	2.1...4.0	2.60	BUZ 308
		2.1...4.0	2.60	BUZ 308
1000	1.50	2.1...4.0	6.00	BUZ 312
	2.00	2.1...4.0	5.00	BUZ 357
		2.1...4.0	4.50	BUZ 358
1000	5.00	2.1...4.0	2.50	BUZ 310
	6.00	2.1...4.0	2.30	BUZ 311

S-FET TO-220/D²PAK



V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
55	0.008	2.1...4.0	80.0	BUZ 111S
	0.012	2.1...4.0	80.0	BUZ 110S
	0.015	2.1...4.0	77.0	BUZ 100S
	0.023	2.1...4.0	52.0	BUZ 102S
	0.040	2.1...4.0	31.0	BUZ 103S
	0.060	2.1...4.0	23.0	BUZ 101S
	0.100	2.1...4.0	14.0	BUZ 104S
	0.010	1.2...2.0	80.0	BUZ 111SL
	0.015	1.2...2.0	80.0	BUZ 110SL
	0.018	1.2...2.0	70.0	BUZ 100SL
	0.028	1.2...2.0	47.0	BUZ 102SL
	0.050	1.2...2.0	28.0	BUZ 103SL
	0.070	1.2...2.0	21.0	BUZ 101SL
	0.120	1.2...2.0	12.8	BUZ 104SL

TO-220/D²PAK



V_{DS} [V]	$R_{DS(on)}$ [Ω]	$V_{GS(th)}$ [V]	I_D [A]	Type
50	0.018	2.1...4.0	58.00	BUZ 100 ⚡
	0.023	2.1...4.0	58.00	BUZ 102 ⚡
	0.040	2.1...4.0	40.00	BUZ 103 ⚡
	0.060	2.1...4.0	29.00	BUZ 101 ⚡
	0.100	2.1...4.0	17.50	BUZ 104 ⚡
	0.018	1.2...2.0	60.00	BUZ 100L ⚡
	0.028	1.2...2.0	42.00	BUZ 102AL ⚡
	0.050	1.2...2.0	35.00	BUZ 103AL ⚡
	0.060	1.2...2.0	29.00	BUZ 101L ⚡
	0.100	1.2...2.0	17.50	BUZ 104L ⚡
100	0.055	2.1...4.0	34.00	BUZ 22
	0.085	2.1...4.0	21.00	BUZ 21
	0.200	2.1...4.0	10.00	BUZ 72
	0.200	2.1...4.0	13.50	BUZ 20
	0.250	2.1...4.0	9.00	BUZ 72A
	0.085	1.2...2.0	21.00	BUZ 21L
	0.200	1.2...2.0	10.00	BUZ 72L
	0.250	1.2...2.0	9.00	BUZ 72AL
200	0.130	2.1...4.0	21.00	BUZ 30A
	0.200	2.1...4.0	13.50	BUZ 31
	0.400	2.1...4.0	9.50	BUZ 32
	0.400	2.1...4.0	7.00	BUZ 73
	0.600	2.1...4.0	5.80	BUZ 73A
	0.200	1.2...2.0	13.50	BUZ 31L
	0.400	1.2...2.0	7.00	BUZ 73L
	0.600	1.2...2.0	5.80	BUZ 73AL
400	0.40	2.1...4.0	12.50	BUZ 61
	0.50	2.1...4.0	11.00	BUZ 61A
	1.00	2.1...4.0	5.50	BUZ 60
	1.80	2.1...4.0	3.00	BUZ 76
	2.50	2.1...4.0	2.60	BUZ 76A
500	0.80	2.1...4.0	8.00	BUZ 40B
	1.50	2.1...4.0	4.50	BUZ 41A
	2.00	2.1...4.0	4.00	BUZ 42
	3.00	2.1...4.0	2.40	BUZ 74
	4.00	2.1...4.0	2.10	BUZ 74A
600	0.90	2.1...4.0	8.00	BUZ 91A
	1.60	2.1...4.0	4.50	BUZ 90
	2.00	2.1...4.0	4.00	BUZ 90A
	2.50	2.1...4.0	3.60	BUZ 93
	3.00	2.1...4.0	3.20	BUZ 92
	3.50	2.1...4.0	2.90	BUZ 77B
	4.00	2.1...4.0	2.10	BUZ 77A
800	2.50	2.1...4.0	4.00	BUZ 81
	3.00	2.1...4.0	3.00	BUZ 80A
	4.00	2.1...4.0	2.60	BUZ 80
	8.00	2.1...4.0	1.50	BUZ 78
1000	4.00	2.1...4.0	3.40	BUZ 51
	5.00	2.1...4.0	2.50	BUZ 50A
	6.00	2.1...4.0	2.30	BUZ 50C
	8.00	2.1...4.0	2.00	BUZ 50B

⚡ not for new design

Semiconductor Group – find us at an office near you

A Siemens AG Österreich Erdberger Lände 26 A-1031 Wien ☎ (+43) 1-1707-356 11 Fax (+43) 1-1707-559 73 Email: elisabeth.schwarz@siemens.at	D Siemens AG Von-der-Tann-Straße 30 D-90439 Nürnberg ☎ (+49) 911-654 76 22 Fax (+49) 911-654 76 58 GR Siemens AE Paradissou & Artemidos P.O.B. 61011 GR-15110 Amaroussio/Athen ☎ (+30) 1-686 41 11 Fax (+30) 1-686 42 99 HK Siemens Components Ltd. 23/F, Tai Yau Building 181 Johnston Road, Wanchai Hong Kong ☎ (+852) 2832 05 00 Fax (+852) 2827 97 62 I Siemens S.p.A. Semiconduttori Viale Piero e Alberto Pirelli 10 I-20126 Milano ☎ (+39) 2-6676-1 Fax (+39) 2-6676 43 95 IND Siemens Ltd. B-8 Jungpura Muthura Road New Delhi 110 014 ☎ (+91) 11-461 74 47 Fax (+91) 11-461 74 46 Siemens Ltd. 3rd Floor, Jyothi Mahal 49 St. Mark's Road PO Box 5212 Bangalore 560 001 ☎ (+91) 80-227 98 74 Fax (+91) 80-221 85 60	N Siemens A/S Østre Akar vei 90 Postboks 10, veitvet N-0518 Oslo 5 ☎ (+47) 22-63 30 00 Fax (+47) 22-63 38 05 NL Siemens Electronic Components Benelux Postbus 16068 NL-2500 BB Den Haag ☎ (+31) 70-333 24 29 Fax (+31) 70-333 28 15 NZ Siemens Auckland 300 Great South Road Greenland Auckland ☎ (+64) 9-520 30 33 Fax (+64) 9-520 15 56 P Siemens S.A. Estrada Nacional 117, km 2,6 Alfragide P-2700 Amadora ☎ (+35) 1-417 00 11 Fax (+35) 1-417 28 70 PK Siemens Pakistan Engineering Co. Ltd. PO Box 1129, Islamabad 44000 23 West Jinnah Ave Islamabad ☎ (+92) 51-21 22 00 Fax (+92) 51-21 16 10 PL Siemens SP z.o.o. ul. Zupnicza 11 PL-03-821 Warszawa ☎ (+48) 2-670 91 51 Fax (+48) 2-670 91 59 RC Siemens Components Pte Ltd. 1001, 10th Floor No. 96, Chung Shan North Road Section 2, Taipei ☎ (+886) 2-2523 79 90 Fax (+886) 2-2523 80 20 ROK Siemens Ltd. Asia Tower, 10th Floor 726 Yeoksam-dong, Kang-nam Ku CPO Box 3001 Seoul 135-080 ☎ (+82) 2-527 77 00 Fax (+82) 2-527 77 79	RUS Siemens AG ul. Dubininskaya, 98A RUS-113 093 Moskva ☎ (+7) 095-237-64 76, -69 11 Fax (+7) 095-237-66 14 S Siemens Components Österögatan 1, Box 46 S-164 93 Kista ☎ (+46) 8-703 35 00 Fax (+46) 8-703 35 01 SGP Siemens Components Pte Ltd. 168 Kallang Way Singapore 349 253 ☎ (+65) 840 06 10 Fax (+65) 742 62 39 TR SIMKO Ticaret ve Sanayi A.S. Meclisi Mebusan Cad. No. 125 TR-80040 Findikli (Istanbul) ☎ (+90) 212-251 09 00 Fax (+90) 212-252 41 34 USA Siemens Microelectronics Inc. 10950 North Tantau Avenue Cupertino, CA 95014 ☎ (+1) 408-777 45 00 Fax (+1) 408-777 45 10 Siemens Components, Inc. Optoelectronics Division 19000 Homestead Road Cupertino, CA 95014 ☎ (+1) 408-257 79 10 Fax (+1) 408-725 34 39								
AUS Siemens Ltd., Head Office 544 Church Street Richmond (Melbourne), Vic. 3121 ☎ (+61) 3-9420 71 11 Fax (+61) 3-9420 72 75 Email: mark.walsh@siemens.com.au	DK Siemens A/S Borupvang 3 DK-2750 Ballerup ☎ (+45) 4477-4477 Fax (+45) 4477-4017 Email: bjarne.jensen@div2. cph1.siemens.scn.400net.dk	BR Siemens Ltda. Semiconductores Avenida Mutinga, 3800-Pirituba 05110-901 São Paulo-SP ☎ (+55) 11-836 25 47 Fax (+55) 11-836 27 28 Email: rknobloch@siemens.br.scn.de	CDN Siemens Electric Ltd. Electronic Components Division 1180 Courtney Park Drive Mississauga, Ontario L5T 1P2 ☎ (+1) 905-819 80 00 Fax (+1) 905-819 57 44	CH Siemens Schweiz AG Bauelemente Freilagerstrasse 28 CH-8047 Zürich ☎ (+41) 1-495 31 11 Fax (+41) 1-495 50 65 Email: alois.bachmann@zrh1. siemens-albis.scn.arcom.ch	D Siemens AG Völklinger Str. 2 D-40219 Düsseldorf ☎ (+49) 211-399 15 51 Fax (+49) 211-399 14 81 Siemens AG Werner-von-Siemens-Platz 1 D-30876 Laatzen (Hannover) ☎ (+49) 511-877 27 06 Fax (+49) 511-877 15 20	FIN Siemens Oy P.O.B. 60 FIN-02601 Espoo (Helsinki) ☎ (+35) 9-5105 1 Fax (+35) 9-5105 23 98	GB Siemens plc Semiconductors, Siemens House, Oldbury GB-Bracknell, Berkshire RG 12 8FZ ☎ (+44) 1344-39 60 00 Fax (+44) 1344-39 66 35 Email: semis@plcbrk.siemens.co.uk	J Siemens Components k.k. Takanawa Park Tower 12F & 17F Higashi-Gotanda 3-20-14 Shinagawa-ku Tokyo 141-0022 ☎ (+81) 3-5449 64 Fax (+81) 3-5449 6401	MAL Siemens Semiconductor Sdn Bhd Bayan Lepas Free Industrial Zone 1 11900 Penang ☎ (+60) 4-644 99 75 Fax (+60) 4-641 48 72	VRC Siemens Components Ltd. Room 2106, Building A Vantone New World Plaza No. 2 Fu Cheng Men Wai Da Jie 100037 Beijing ☎ (+86) 10-6857 90 -06, -07 Fax (+86) 10-6857 90 08	ZA Siemens Ltd. Components Division P.O.B. 3438 Halfway House 1685 ☎ (+27) 11-652 -2000, -2700 Fax (+27) 11-652 20 42

Internet-address:
[http://www.siemens.de/semiconductor \(/address/address.htm\)](http://www.siemens.de/semiconductor (/address/address.htm))

03/98

Published by Semiconductor Group

Siemens Aktiengesellschaft

Ordering No. B152-H6493-G5-X-7600
Printed in Germany
PS 049810.

21-921