

Power Products

Selection Guide

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Datasheet.Company



Power Products

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1.5KE100(C)A	56	1N4150	48	1N5236B	49	1N5371A	50	1N5941A	50
1.5KE11(C)A	56	1N4151	48	1N5237B	49	1N5372A	50	1N5942A	50
1.5KE110(C)A	56	1N4154	48	1N5238B	49	1N5373A	50	1N5943A	50
1.5KE12(C)A	56	1N4305	48	1N5239B	49	1N5374A	50	1N5944A	50
1.5KE120(C)A	56	1N4448	48	1N5240B	49	1N5375A	50	1N5945A	50
1.5KE13(C)A	56	1N4454	48	1N5241B	49	1N5376A	50	1N5946A	50
1.5KE130(C)A	56	1N456A	48	1N5242B	49	1N5377A	50	1N5947A	50
1.5KE15(C)A	56	1N457	48	1N5243B	49	1N5378A	50	1N5948A	50
1.5KE150(C)A	56	1N457A	48	1N5244B	49	1N5391	61	1N5949A	50
1.5KE16(C)A	56	1N458A	48	1N5245B	49	1N5392	61	1N746A	49
1.5KE160(C)A	56	1N459	48	1N5246B	49	1N5393	61	1N747A	49
1.5KE170(C)A	56	1N459A	48	1N5247B	49	1N5394	61	1N748A	49
1.5KE18(C)A	56	1N4728A	49	1N5248B	49	1N5395	61	1N749A	49
1.5KE180(C)A	56	1N4729A	49	1N5249B	49	1N5396	61	1N750A	49
1.5KE20(C)A	56	1N4730A	49	1N5250B	49	1N5397	61	1N751A	49
1.5KE200(C)A	56	1N4731A	49	1N5251B	49	1N5398	61	1N752A	49
1.5KE22(C)A	56	1N4732A	49	1N5252B	49	1N5399	61	1N753A	49
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1.5KE24(C)A	56	1N4734A	49	1N5254B	49	1N5401	61	1N755A	49
1.5KE250(C)A	56	1N4735A	49	1N5255B	49	1N5402	61	1N756A	49
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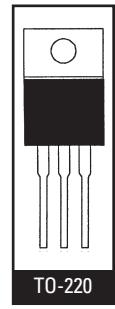
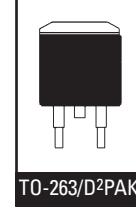
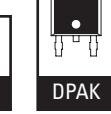
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SMCJ12(C)A	55	SS23	65	SSH70N10A	25	SSS2N90A	24	TIP141F	37
SMCJ120(C)A	55	SS24	65	SSH7N60A	25	SSS3N80A	24	TIP141T	36
SMCJ13(C)A	55	SS25	65	SSH7N80A	25	SSS3N90A	24	TIP142	37
SMCJ130(C)A	55	SS26	65	SSH7N90A	25	SSS4N60AS	24	TIP142F	37
SMCJ14(C)A	55	SS28	65	SSH80N06A	25	SSS4N80A	24	TIP142T	36
SMCJ15(C)A	55	SS29	65	SSH8N80A	25	SSS4N90A	24	TIP145	37
SMCJ150(C)A	55	SS32	65	SSH8N90A	25	SSS4N90AS	24	TIP145F	37
SMCJ16(C)A	55	SS33	65	SSH9N80A	25	SSS5N80A	24	TIP146	37
SMCJ160(C)A	55	SS34	65	SSH9N90A	25	SSS5N90A	24	TIP146F	37
SMCJ17(C)A	55	SS35	65	SSI1N50A	20	SSS60N06	23	TIP146T	36
SMCJ170(C)A	55	SS36	65	SSI1N60A	20	SSS6N70A	24	TIP147	37
SMCJ18(C)A	55	SS38	65	SSI2N60A	20	SSS6N80A	24	TIP147T	36
SMCJ20(C)A	55	SS39	65	SSI2N80A	20	SSS6N90A	24	TIP29	34
SMCJ22(C)A	55	SS8050	44	SSI29N0A	20	SSS70N10A	24	TIP29A	34
SMCJ24(C)A	55	SS8050	43	SSI3N80A	20	SSS7N60A	24	TIP29B	34
SMCJ26(C)A	55	SS8550	44	SSI3N90A	20	SSS7N80A	24	TIP29C	34
SMCJ28(C)A	55	SS8550	43	SSI4N60A	20	SSS80N06A	23	TIP30	34
SMCJ30(C)A	55	SS9011	43	SSI4N80A	20	SSU1N50A	21	TIP30A	34
SMCJ33(C)A	55	SS9012	43	SSI4N80AS	20	SSU1N60A	21	TIP30B	34
SMCJ36(C)A	55	SS9013	43	SSI4N90A	20	SSU2N60A	21	TIP30C	34
SMCJ40(C)A	55	SS9014	42	SSI4N90AS	20	SSU3055A	21	TIP31	34
SMCJ43(C)A	55	SS9015	43	SSI5N80A	20	SSU3055LA	21	TIP31A	34
SMCJ45(C)A	55	SS9016	42	SSI5N90A	20	SSW1N50A	18	TIP31B	34
SMCJ48(C)A	55	SS9018	42	SSI6N70A	20	SSW1N60A	18	TIP31C	34
SMCJ5.0(C)A	55	SSF10N60A	26	SSI7N60A	20	SSW2N60A	18	TIP32	34
SMCJ51(C)A	55	SSF10N80A	26	SSP10N60A	23	SSW2N80A	18	TIP32A	34
SMCJ54(C)A	55	SSF10N90A	26	SSP1N50A	23	SSW2N90A	18	TIP32B	34
SMCJ58(C)A	55	SSF17N60A	26	SSP1N60A	23	SSW3N80A	18	TIP32C	34
SMCJ6.0(C)A	55	SSF22N50A	26	SSP2N60A	23	SSW3N90A	18	TIP41	35
SMCJ6.5(C)A	55	SSF25N40A	26	SSP2N80A	23	SSW4N60A	18	TIP41A	35
SMCJ60(C)A	55	SSF45N20A	26	SSP2N90A	23	SSW4N80A	18	TIP41B	35
SMCJ64(C)A	55	SSF4N80AS	26	SSP3N80A	23	SSW4N80AS	18	TIP41C	35
SMCJ7.0(C)A	55	SSF4N90AS	26	SSP3N90A	23	SSW4N90A	18	TIP42	35
SMCJ7.5(C)A	55	SSF5N80A	26	SSP45N20A	22	SSW4N90AS	18	TIP42A	35
SMCJ70(C)A	55	SSF5N90A	26	SSP4N60AS	23	SSW5N80A	18	TIP42B	35
SMCJ75(C)A	55	SSF6N70A	26	SSP4N80A	23	SSW5N90A	18	TIP42C	35
SMCJ78(C)A	55	SSF6N80A	26	SSP4N80AS	23	SSW6N70A	18	TIP47	34
SMCJ8.0(C)A	55	SSF6N90A	26	SSP4N90A	23	SSW7N60A	18	TIP48	34
SMCJ8.5(C)A	55	SSF70N10A	26	SSP4N90AS	23	TIP100	36	TIP49	34
SMCJ85(C)A	55	SSF7N60A	26	SSP5N80A	23	TIP101	36	TIP50	34
SMCJ9.0(C)A	55	SSF7N80A	26						

PWM Optimized PowerTrench™

Part Number	Package	V _{DS} (V)	R _{DS(on)} Max (Ω)			Q _g (Typ)	I _D (A)	P _D (W)	Configuration						
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V										
PWM Optimized PowerTrench															
N-Channel															
FDS6570A*	SO-8	20		0.0075	0.01	47	15	2.5	Single						
FDS6890A	SO-8	20		0.019	0.025	23	7.5	2	Dual						
FDR8305N*	SuperSOT™-8	20		0.022	0.03	16.2	4.5	0.8	Dual						
FDC637AN*	SuperSOT™-6	20		0.026	0.036	10.5	6.2	1.6	Single						
FDN339AN*	SuperSOT™-3	20		0.04	0.055	7	3	0.5	Single						
FDN335N	SupersOT-3	20		0.07	0.1	3.5	1.7	0.5	Single						
FDC6305N	SupersOT-6	20		0.08	0.12	3.5	2.7	0.9	Dual						
FDG311N*	SC70-6	20		0.105	0.145	3	1.9	0.48	Single						
FDB/FDP8030L*	TO-263/TO-220	30	0.0035	0.0045		120	80	187	Single						
FDB/FDP7045L*	TO-263/TO-220	30	0.0045	0.006		50	75	125	Single						
FDB/FDP6670AL	TO-263/TO-220	30	0.0065	0.0085		35	80	75	Single						
FDS6670A	SO-8	30	0.008	0.01		35	13	2.5	Single						
FDD6670A*	DPAK	30	0.008	0.01		35	66	70	Single						
FDB/FDP7030BL	TO-263/TO-220	30	0.009	0.012		23	60	65	Single						
FDR4420A	SupersOT-8	30	0.009	0.013		23	11	1.8	Single						
FDS6680A	SO-8	30	0.0095	0.013		23	12.5	2.5	Single						
FDD6680A*	DPAK	30	0.0095	0.013		23	56	60	Single						
FDS6680	SO-8	30	0.01	0.015		19	11.5	2.5	Single						
FDD6680*	DPAK	30	0.01	0.015		19	55	60	Single						
FDD6690A*	DPAK	30	0.012	0.016		17	46	50	Single						
FDS6690A	SO-8	30	0.0125	0.017		17	11	2.5	Single						
FDB/FDP6035AL	TO-263/TO-220	30	0.0125	0.017		17	48	58	Single						
FDS4410	SO-8	30	0.0135	0.02		13	10	2.5	Single						
FDS6982	SO-8	30	0.015	0.02		18.5	8.6	2	N-Ch 2						
	SO-8	30	0.028	0.035		8.5	6.3	2	N-Ch 1						
FDS6990A	SO-8	30	0.018	0.023		17	7.5	2	Dual						
FDB/FDP6030BL*	TO-263/TO-220	30	0.018	0.024		12	40	60	Single						
FDS6614A*	SO-8	30	0.018	0.025		12	9.3	2.5	Single						
FDD6612A*	DPAK	30	0.02	0.028		9	30	36	Single						
FDS6612A	SO-8	30	0.022	0.03		9	8.4	2.5	Single						
FDC655AN	SupersOT-6	30	0.027	0.035		9	6.3	1.6	Single						
FDS6912A	SO-8	30	0.028	0.035		9	6	2	Dual						
FDS6912*	SO-8	30	0.028	0.042		7	6	2	Dual						
FDS6630A	SO-8	30	0.038	0.053		5	6.5	2.5	Single						
FDS6930A	SO-8	30	0.04	0.055		5	5.5	2	Dual						
FDN359AN	SupersOT-3	30	0.046	0.06		5	2.7	0.5	Single						
FDS6961A	SO-8	30	0.09	0.14		2.1	3.5	2	Dual						
FDC6561AN	SupersOT-6	30	0.095	0.145		2.1	2.5	0.9	Dual						
FDN361AN	SupersOT-3	30	0.1	0.15		2.1	1.8	0.5	Single						
FDG315N*	SC70-6	30	0.12	0.16		2.1	2	0.48	Single						
FDB/FDP5680*	TO-263/TO-220	60	0.02	0.023@6V		33@10V	40	65	Single						
FDS5680	SO-8	60	0.02	0.025@6V		30@10V	8	2.5	Single						
FDD5680*	DPAK	60	0.021	0.024@6V		33@10V	38	60	Single						
FDB/FDP5690*	TO-263/TO-220	60	0.027	0.032@6V		23@10V	32	58	Single						
FDD5690	DPAK	60	0.027	0.032@6V		23@10V	30	50	Single						
FDS5690*	SO-8	60	0.028	0.033@6V		23@10V	7	2.5	Single						
FDC5612	SupersOT-6	60	0.055	0.064@6V		12.5@10V	4.3	1.6	Single						
FDS3570*	SO-8	80	0.019	0.022@6V		54@10V	9	2.5	Single						
FDS3580*	SO-8	80	0.027	0.031@6V		34@10V	7.6	2.5	Single						

* Preliminary information; samples available. Full production release is pending reliability completion.

Note: Parts highlighted in red are new since June, 1998.



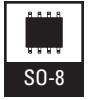
PWM Optimized PowerTrench™ (continued)

Part Number	Package	V _{DS} (V)	R _{DSON} Max (Ω)			Q _G (Typ)	I _D (A)	P _D (W)	Configuration						
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V										
PWM Optimized PowerTrench (cont.)															
P-Channel															
FDS6575	SO-8	-20		0.013	0.017	50	-10	2.5	Single						
FDS6576*	SO-8	-20		0.014	0.02	44	-11	2.5	Single						
FDR838P	SuperSOT-8	-20		0.017	0.024	30	-8	1.8	Single						
FDS6375	SO-8	-20		0.024	0.032	23	-8	2.5	Single						
FDS6875	SO-8	-20		0.03	0.04	23	-6	2	Dual						
FDC638P	SuperSOT-6	-20		0.045	0.065	13	-4.5	1.6	Single						
FDR8308P	SuperSOT-8	-20		0.05	0.07	13	-3.2	0.8	Dual						
FDC640P*	SuperSOT-6	-20		0.05	0.077	10	-4.5	1.6	Single						
FDN340P	SuperSOT-3	-20		0.07	0.11	8	-2	0.5	Single						
FDS9933A	SO-8	-20		0.075	0.105	8	-3.8	2	Dual						
FDC6306P	SuperSOT-6	-20		0.17	0.25	3	-1.9	0.9	Dual						
FDC6308P*	SuperSOT-6	-20		0.18	0.3	3	-1.7	0.9	Dual						
FDG312P	SC70-6	-20		0.18	0.25	3.3	-1.2	0.48	Single						
FDN336P	SuperSOT-3	-20		0.2	0.27	3.6	-1.3	0.5	Single						
FDS6675	SO-8	-30	0.014	0.02		30	-11.0	2.5	Single						
FDS4435A	SO-8	-30	0.017	0.025		21	-9	2.5	Single						
FDR858P	SuperSOT-8	-30	0.019	0.028		21	-8.0	1.8	Single						
FDS4435	SO-8	-30	0.02	0.035		17	-8.8	2.5	Single						
FDS6685*	SO-8	-30	0.02	0.035		19	-8.8	2.5	Single						
FDS6975	SO-8	-30	0.032	0.045		14.5	-6.0	2	Dual						
FDR8508P	SuperSOT-8	-30	0.05	0.075		8	-3.0	0.8	Dual						
FDC658P	SuperSOT-6	-30	0.05	0.075		8	-4.0	1.6	Single						
FDS4953	SO-8	-30	0.053	0.095		8	-5.0	2	Dual						
FDN360P	SuperSOT-3	-30	0.08	0.125		5	-2.0	0.5	Single						
FDC6506P	SuperSOT-6	-30	0.17	0.28		2.3	-1.8	0.9	Dual						
FDG316P*	SC70-6	-30	0.190	0.30		3.5	-1.6	0.48	Single						
Complementary N-P Channel															
Si4532DY*	SO-8	30	0.065	0.095		3.7	3.9	2	N-Ch						
		-30	0.085	0.19		5	-3.5	2	P-Ch						
FDC6327C*	SuperSOT-6	20		0.080	0.120	3.2	2.7	0.9	N-Ch						
		-20		0.17	0.25	2.8	-1.6	0.9	P-Ch						

Part Number	Package	V _{IN} (V) (Max)	R _(ON) Max (Ω)			I _L (A) @ V _(DROP) = 0.2V			Configuration
			V _{IN} = 12V	V _{IN} = 5V	V _{IN} = 2.5V	V _{IN} = 12V	V _{IN} = 5V	V _{IN} = 2.5V	
			V _{ON/OFF} = 3.3V			V _{ON/OFF} = 3.3V			
Load Switch									
FDC6329L	SuperSOT-6	8		0.07	0.105		2.8	1.9	Load Switch
FDC6330L	SuperSOT-6	20	0.08	0.125		2.5	1.6		Load Switch

* Preliminary information; samples available. Full production release is pending reliability completion.

Note: Parts highlighted in red are new since June, 1998.



Surface-Mount Power MOSFETs

Part Number	V _{DS} (V)	R _{DS(on)} Max (Ω)			V _{GS@} 10V	I _D (A)	P _D (W)	Configuration					
		10V	4.5V	2.7V									
SO-8													
N-Channel													
FDS6570A*	20		0.0075	0.01@2.5V	15.0	2.5	Single						
NDS8426A	20		0.0135	0.016	10.5	2.5	Single						
FDS6890A	20		0.019	0.025@2.5V	7.5	2	Dual						
NDS8425	20		0.025	0.03	7.4	2.5	Single						
NDS8926	20		0.035	0.045	5.5	2	Dual						
NDS9925A	20		0.06	0.075	4.2	2	Dual						
FDS8926A	30		0.03	0.038@2.5V	5.5	2	Dual						
FDS6670A	30	0.008	0.01		13	2.5	Single						
FDS6680A	30	0.0095	0.013		12.5	2.5	Single						
FDS6680	30	0.01	0.015		11.5	2.5	Single						
NDS8410A	30	0.012	0.017		10.8	2.5	Single						
FDS6690A	30	0.0125	0.017		11	2.5	Single						
FDS4410	30	0.0135	0.02		10.0	2.5	Single						
FDS6982	30	0.015	0.020		8.6	2.0	N-Ch 2						
	30	0.028	0.035		6.3	2.0	N-Ch 1						
FDS6990A	30	0.018	0.023		7.5	2	Dual						
FDS6614A*	30	0.018	0.025		9.3	2.5	Single						
FDS6612A	30	0.022	0.03		8.4	2.5	Single						
FDS9412	30	0.022	0.036		7.9	2.5	Single						
FDS6912A	30	0.028	0.035		6.0	2	Dual						
FDS8936A	30	0.028	0.04		6.0	2	Dual						
NDS9410A	30	0.028	0.042		7.3	2.5	Single						
FDS6912*	30	0.028	0.042		6.0	2	Dual						
NDS8936	30	0.035	0.05		5.3	2	Dual						
FDS6630A	30	0.038	0.053		6.5	2.5	Single						
FDS6930A	30	0.04	0.055		5.5	2	Dual						
FDS9936A	30	0.04	0.06		5.5	2	Dual						
NDS9936	30	0.05	0.08		5	2	Dual						
NDS9956A	30	0.08	0.11		3.7	2	Dual						
FDS6961A	30	0.090	0.140		3.5	2	Dual						
NDS8961	30	0.1	0.15		3.1	2	Dual						
NDS9955	50	0.13	0.2		3	2	Dual						
NDS9959	50	0.3	0.5@5V		2	2	Dual						
FDS5680	60	0.02	0.025@6V		8	2.5	Single						
FDS3570*	80	0.019	0.022@6V		9	2.5	Single						
FDS3580*	80	0.027	0.031@6V		7.6	2.5	Single						
FDS5690*	60	0.028	0.033@6V		7	2.5	Single						
NDS9945	60	0.1	0.2		3.5	2	Dual						
NDS9957	60	0.16	0.25		2.6	2	Dual						

Part Number	V _{DS} (V)	R _{DS(on)} Max (Ω)			V _{GS@} 10V	I _D (A)	P _D (W)	Configuration					
		10V	4.5V	2.7V									
SO-8 (cont.)													
P-Channel													
FDS6575	-20		0.013	0.017@2.5V	-10	2.5	Single						
FDS6576*	-20		0.014	0.02@2.5V	-11	2.5	Single						
NDS8434A	-20		0.024	0.032@2.5V	-7.8	2.5	Single						
FDS6375	-20		0.024	0.032@2.5V	-8	2.5	Single						
FDS6875	-20		0.03	0.04@2.5V	-6	2	Dual						
FDS8433A*	-20		0.045	0.07@2.5V	-5	2.5	Single						
FDS8934A	-20		0.055	0.072@2.5V	-4	2	Dual						
NDS8934	-20		0.07	0.1	-3.8	2	Dual						
FDS9933A	-20		0.075	0.105@2.5V	-3.8	2	Dual						
NDS9933A	-20		0.14	0.19	-2.7	2	Dual						
NDS9947	-20	0.1	0.19		-3.5	2	Dual						
FDS6675	-30	0.014	0.02		-11	2.5	Single						
FDS4435A	-30	0.017	0.025		-9	2.5	Single						
FDS4435	-30	0.02	0.035		-8.8	2.5	Single						
FDS6685*	-30	0.02	0.035		-8.8	2.5	Single						
NDS8435A	-30	0.023	0.035		-7.9	2.5	Single						
FDS6975	-30	0.032	0.045		-6	2	Dual						
FDS9435A	-30	0.045	0.075		-5.3	2.5	Single						
NDS9435A	-30	0.05	0.09		-5.3	2.5	Single						
FDS8947A	-30	0.052	0.08		-4	2	Dual						
FDS4953	-30	0.053	0.095		-5	2	Dual						
NDS9400A	-30	0.13	0.2		-3.4	2.5	Single						
NDS9953A	-30	0.13	0.2		-2.9	2	Dual						
NDS9407	-60	0.15	0.24		-3	2.5	Single						
NDS9948	-60	0.25	0.5		-2.3	2	Dual						
Complementary N-P Channel													
FDS8928A	30		0.03	0.038@2.5V	5.5	2	N-Ch						
	-20		0.055	0.072@2.5V	-4	2	P-Ch						
NDS8928	20		0.035	0.045	5.5	2	N-Ch						
	-20		0.07	0.1	-3.8	2	P-Ch						
NDS9958	20	0.1	0.15		3.5	2	N-Ch						
	-20	0.1	0.19		-3.5	2	P-Ch						
FDS8958A	30	0.028	0.04		7	2	N-Ch						
	-30	0.052	0.08		-5	2	P-Ch						
NDS8958	30	0.035	0.05		5.3	2	N-Ch						
	-30	0.065	0.1		-4	2	P-Ch						
Si4532DY*	30	0.065	0.095		3.9	2	N-Ch						
	-30	0.085	0.19		-3.5	2	P-Ch						
NDS9952A	30	0.08	0.11		3.7	2	N-Ch						
	-30	0.13	0.2		-2.9	2	P-Ch						
MOSFET Half Bridge Motor Driver													
NDS8858H	30	0.035	0.05		6.3	2.5	N-Ch						
	-30	0.065	0.1		-4.8	2.5	P-Ch						
NDS8839H	30	0.045	0.075		5.7	2.5	N-Ch						
	-30	0.09	0.15		-4	2.5	P-Ch						
NDS8852H	30	0.08	0.11		4.3	2.5	N-Ch						
	-30	0.13	0.2		-3.4	2.5	P-Ch						

* Preliminary information; samples available. Full production release is pending reliability completion.

Note: Parts highlighted in red are new since June, 1998.



Surface-Mount Power MOSFETs (continued)

Part Number	V _{DS} (V)	R _{DS (ON)} Max (Ω)			I _D (A)	P _D (W)	Configuration				
		10V	4.5V	2.7V							
SC70-6											
N-Channel											
FDG311N*	20		0.105	0.145@2.5V	1.90	0.48	Single				
FDG313N*	25		0.45	0.6	0.95	0.48	Single				
FDG6303N	25		0.45	0.6	0.5	0.3	Dual				
FDG6301N	25		4	5	0.22	0.3	Dual				
FDG315N*	30	0.120	0.16		2.00	0.48	Single				
P-Channel											
FDG312P	-20		0.18	0.25@2.5V	-1.2	0.48	Single				
FDG314P*	-25		1.1	1.5	-0.65	0.48	Single				
FDG6304P	-25		1.1	1.5	-0.41	0.3	Dual				
FDG6302P	-25		10	13	-0.14	0.3	Dual				
FDG316P*	-30	0.190	0.30		-1.6	0.48	Single				
Complementary N-P Channel											
FDG6321C	25		0.45	0.6	0.5	0.3	N-Ch P-Ch				
	-25		1.1	1.5	-0.41						
FDG6322C	25		4	5	0.22	0.3	N-Ch P-Ch				
	-25		1.1	1.5	-0.41						
FDG6320C	25		4	5	0.22	0.3	N-Ch P-Ch				
	-25		10	13	-0.14						

Part Number	V _{DS} (V)	R _{DS (ON)} Max (Ω)			I _D (A)	P _D (W)	Configuration				
		10V	4.5V	2.7V							
SuperSOT™-3											
N-Channel											
FDN339AN*	20		0.040	0.055@2.5V	3.0	0.5	Single				
FDN335N	20		0.070	0.100@2.5V	1.7	0.5	Single				
FDN337N	30		0.065	0.082@2.5V	2.2	0.5	Single				
FDN359AN	30	0.046	0.060		2.7	0.5	Single				
FDN361AN	30	0.100	0.150		1.8	0.5					
FDN357N	30	0.06	0.09		1.9	0.5	Single				
NDS355AN	30	0.085	0.125		1.7	0.5	Single				
NDS351AN	30	0.16	0.25		1.2	0.5	Single				
P-Channel											
FDN340P	-20		0.07	0.11@2.5V	-2.0	0.5					
FDN338P	-20		0.13	0.18@2.5V	-1.6	0.5	Single				
FDN336P	-20		0.2	0.27@2.5V	-1.3	0.5					
NDS332P	-20		0.3	0.41	-1	0.5	Single				
FDN360P	-30	0.08	0.125		-2.0	0.5					
FDN358P	-30	0.125	0.2		-1.5	0.5	Single				
NDS356AP	-30	0.2	0.3		-1.1	0.5	Single				
NDS352AP	-30	0.3	0.5		-0.9	0.5	Single				



SC70-6



SSOT-3



SOT-23



SSOT-6

Part Number	V _{DS} (V)	R _{DS (ON)} Max (Ω)			I _D (A)	P _D (W)	Configuration				
		10V	4.5V	2.7V							
SOT-23											
N-Channel											
FDV303N	25			0.45	0.6	0.68	0.35				
FDV301N	25			4	5	0.22	0.35				
BSS138	50		3.5	6		0.22	0.36				
NDS7002A	60		2	3@5V		0.28	0.3				
MMBF170	60		5			0.5	0.3				
2N7002	60		7.5			0.115	0.2				
BSS123	100		6	10		0.17	0.36				
P-Channel											
FDV304P	-25			1.1	1.5	-0.46	0.35				
FDV302P	-25			10	13	-0.12	0.35				
BSS84	-50		10			-0.13	0.36				
NDS0605	-60		5	7.5		-0.18	0.36				
NDS0610	-60		10	20		-0.12	0.36				

Part Number	V _{DS} (V)	R _{DS (ON)} Max (Ω)			I _D (A)	P _D (W)	Configuration				
		10V	4.5V	2.7V							
SuperSOT™-6											
N-Channel											
FDC637AN*	20			0.026	0.036@2.5V	6.2	1.6				
NDC631N	20			0.06	0.075	4.1	1.6				
FDC6305N	20			0.080	0.120@2.5V	2.7	0.9				
FDC6303N	25			0.45	0.6	0.68	0.9				
FDC6301N	25			4	5	0.22	0.9				
FDC633N	30			0.042	0.054@2.5V	5.2	1.6				
FDC655AN	30	0.027	0.035			6.3	1.6				
FDC653N	30	0.035	0.055			5	1.6				
NDC651N	30	0.06	0.09			3.2	1.6				
FDC6561AN	30	0.095	0.145			2.5	0.9				
NDC7002N	50	2	4			0.51	0.9				
FDC6512	60	0.055	0.064@6V			4.3	1.6				
P-Channel											
FDC638P	-20			0.045	0.065@2.5V	-4.5	1.6				
FDC640P*	-20			0.05	0.077@2.5V	-4.5	1.6				
FDC634P	-20			0.08	0.110@2.5V	-3.5	1.6				
FDC636P	-20			0.13	0.18@2.5V	-2.8	1.6				
NDC632P	-20			0.14	0.2	-2.7	1.6				
FDC6306P	-20			0.17	0.25@2.5V	-1.9	0.9				
FDC6308P*	-20			0.18	0.3@2.5V	-1.7	0.9				
FDC6304P	-25			1.1	1.5	-0.46	0.9				
FDC6302P	-25			10	13	-0.12	0.9				
FDC658P	-30	0.05	0.075			-4.0	1.6				
FDC654P	-30	0.075	0.125			-3.6	1.6				
NDC652P	-30	0.11	0.18			-2.4	1.6				
FDC6506P	-30	0.17	0.28			-1.8	0.9				
NDC7003P	-50	5	7.5			-0.34	0.96				
Complementary N-P Channel											
FDC6327C*	20			0.080	0.120@2.5V	2.7	0.9				
	-20			0.17	0.25@2.5V	-1.6	0.9				
FDC6321C	25			0.45	0.6	0.68	0.9				
	-25			1.1	1.5	-0.46	0.9				
FDC6322C	25			4	5	0.22	0.9				
	-25			1.1	1.5	-0.46	0.9				
FDC6320C	25			4	5	0.22	0.9				
	-25			10	13	-0.12	0.9				
NDC7001C	50	2	4			0.51	0.96				
	-50	5	7.5			-0.34	0.96				

* Preliminary information; samples available. Full production release is pending reliability completion.

Note: Parts highlighted in red are new since June, 1998.

Surface-Mount Power MOSFETs (continued)

Part Number	V _{DS} (V)	R _{DS (ON)}			Max (Ω)	V _{GS@} 2.7V	I _D (A)	P _D (W)	Configuration						
		10V	4.5V	2.7V											
SuperSOT™-8															
N-Channel															
NDH833N	20		0.02	0.025	7.1	1.8	Single								
FDR8305N*	20		0.022	0.03@2.5V	4.5	0.8	Dual								
NDH831N	20		0.03	0.04	5.8	1.8	Single								
NDH8303N	20		0.035	0.045	3.8	0.8	Dual								
NDH8301N	20		0.06	0.075	3	0.8	Dual								
FDR4420A	30	0.009	0.013		11	1.8	Single								
FDR4410	30	0.013	0.02		9.3	1.8	Single								
NDH8503N	30	0.033	0.05		3.8	0.8	Dual								
P-Channel															
FDR838P	-20		0.017	0.024@2.5V	-8.0	1.8	Single								
FDR836P	-20		0.03	0.04@2.5V	-6.1	1.8	Single								
NDH834P	-20		0.035	0.045	-5.6	1.8	Single								
FDR8308P	-20		0.05	0.07@2.5V	-3.2	0.8	Dual								
NDH832P	-20		0.06	0.08	-4.2	1.8	Single								
NDH8304P	-20		0.07	0.095	-2.7	0.8	Dual								
NDH8302P	-20		0.13	0.19	-2	0.8	Dual								
FDR858P	-30	0.019	0.028		-8.0	1.8	Single								
FDR856P	-30	0.025	0.04		-6.3	1.8	Single								
FDR8508P	-30	0.05	0.075		-3.0	0.8	Dual								
NDH8504P	-30	0.07	0.115		-2.7	0.8	Dual								
NDH8502P	-30	0.11	0.18		-2.2	0.8	Dual								
Complementary N-P Channel															
NDH8321C	20		0.035	0.045	3.8	0.8	N-Ch								
	-20		0.07	0.095	-2.7		P-Ch								
NDH8320C	20		0.06	0.075	3	0.8	N-Ch								
	-20		0.13	0.19	-2		P-Ch								
NDH8521C	30	0.033	0.05		3.8	0.8	N-Ch								
	-30	0.07	0.115		-2.7		P-Ch								
NDH8520C	30	0.07	0.1		2.8	0.8	N-Ch								
	-30	0.11	0.18		-2.2		P-Ch								

Part Number	V _{DS} (V)	R _{DS (ON)}			Max (Ω)	V _{GS@} 4.5V	I _D (A)	P _D (W)					
		10V	4.5V	2.7V									
SOT-223													
N-Channel													
FDT439N	30				0.045		6.3	3					
NDT455N	30		0.015		0.02		11.5	3					
NDT453N	30		0.028		0.042		8	3					
NDT451AN	30		0.035		0.05		7.2	3					
FDT459N	30		0.035		0.055		6.5	3					
NDT451N	30		0.05		0.08		5.5	3					
FDT457N	30		0.06		0.09		5	3					
NDT3055L	60		0.1		0.12		4	3					
NDT3055	60		0.1				4	3					
NDT014L	60		0.16		0.2		2.8	3					
NDT014	60		0.2				2.7	3					
NDT410EL	100				0.25@5V		2.1	3					
P-Channel													
NDT456P	-30		0.03		0.045		-7.5	3					
NDT454P	-30		0.05		0.09		-5.9	3					
NDT452AP	-30		0.065		0.1		-5	3					
NDT452P	-30		0.18		0.32		-3	3					
NDT2955	-60		0.3		0.5		-2.5	3					

** Advance information; please contact Marketing for updated information.

* Preliminary information; samples available. Full production release is pending reliability completion.

Note: Parts highlighted in red are new since June, 1998.



Surface-Mount Power MOSFETs (continued)

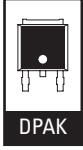
Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{iss} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
SOT-223 (cont.)							
N-Channel							
IRFM014A	60	0.14	280	17	60	2.8	2.1
IRLM014A		0.155@5V	265	10	58.4	2.8	2.1
IRFM120A		0.2	370	22	52	2.3	2.4
IRFM110A		0.4	190	12	62	1.5	2
IRLM120A		0.22@5V	340	15	46.3	2.3	2.7
IRLM110A		0.44@5V	180	8	56.8	1.5	2.2
IRFM220A		0.8	275	17	52	1.13	2.4
IRFM210A		1.5	160	10	61	0.77	2
IRLM220A		0.8@5V	330	15	62.5	1.13	2
IRLM210A		1.5@5V	185	9	69.4	0.77	1.8
IRFM224A		1.1	335	20	50	0.92	2.5
IRFM214A		2	180	12	60	0.64	2.1
P-Channel							
SFM9014	-60	0.5	270	11	45	-1.8	2.8
SFM9120		0.6	425	20	32	-1.7	3.9
SFM9110		1.2	260	10	50	-1	2.5
SFM9210		3	220	11	77	-0.5	1.6
SFM9214		4	225	11	77	-0.45	1.6

Part Number	V _{DS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	V _{GS} @4.5V	I _D (A)	P _D (W)	Configuration
SOIC-16						
3-Phase Brushless Motor Driver						
NDM3000	30 -30	0.09 0.16	0.13 0.25	±3	2.5	N-Ch P-Ch
NDM3001	30 -30	0.115 0.24	0.16 0.36	±2.9	2.5	N-Ch P-Ch

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{iss} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
DPAK							
N-Channel							
FDD6670A*		0.008	3200	50	1.8	66	70
FDD6680A*		0.0095	2180	33	2.1	56	60
FDD6680*		0.01	2070	27	2.1	55	60
FDD6690A*		0.012	1700	23	2.5	46	50
FDD6030L*		0.0145	1230	50	2.1	50	60
FDD6612A		0.020	830	13	3.5	30	36
FDD5680*		0.021	1835	46	2.1	38	60
FDD5690		0.027	1110	32	2.5	30	50
IRFR024A		0.07	600	32	4.14	15	30
IRFR014A		0.14	280	17	7.04	8.2	18
SSR3055A		0.15	280	17	7.04	8	18
IRLR024A		0.075@5V	560	20	4.14	15	30
IRLR014A		0.155@5V	265	10	6.81	8.2	18
SSR3055LA		0.165@5V	265	10	6.73	8	18
IRFR130A		0.11	610	36	3.08	13	41
IRFR120A		0.2	370	22	3.9	8.4	32
IRFR110A		0.4	190	12	6.26	4.7	20
IRLR130A		0.12@5V	580	24	2.7	13	46
IRLR120A		0.22@5V	340	15	3.5	8.4	35
IRLR110A		0.44@5V	180	8	5.6	4.7	22

* Preliminary information; samples available. Full production release is pending reliability completion.

Note: Parts highlighted in red are new since June, 1998 or previously Samsung Power Device Division parts.



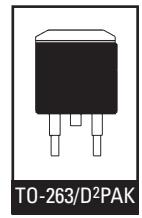
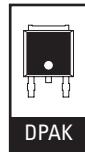
Surface-Mount Power MOSFETs (continued)

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS(Typ)} (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
DPAK (cont.)							
N-Channel							
IRFR230A	200	0.4	500	29	2.5	7.5	50
IRFR220A		0.8	275	17	3.14	4.6	40
IRFR210A		1.5	160	10	4.9	2.7	26
IRLR230A		0.4@5V	580	27	2.6	7.5	48
IRLR220A		0.8@5V	330	15	3.7	4.6	33
IRLR210A	250	1.5@5V	185	9	5.7	2.7	21
IRFR224A		1.1	335	20	2.96	3.8	42
IRFR214A		2	180	12	5.08	2.2	25
IRFR320A	400	1.8	385	26	3.05	3.1	41
IRFR310A		3.6	215	14	4.76	1.7	26
IRFR420A		3	390	26	3.05	2.3	41
SSR1N50A	500	5.5	220	16	4.76	1.3	26
SSR2N60A		5	315	21	2.87	1.8	44
SSR1N60A		12	145	11	4.53	0.9	28
P-Channel							
FDD5202P*	-60	0.3	560	22	3.2	-8	39
SFR9034		0.14	890	38	2.55	-14	49
SFR9024		0.28	465	19	3.91	-7.8	32
SFR2955		0.3	465	19	3.91	-7.6	32
SFR9014		0.5	270	11	5.21	-5.3	24
SFR9130	-100	0.3	800	38	2.19	-9.8	57
SFR9120		0.6	425	20	3.91	-4.9	32
SFR9110		1.2	260	10	6.25	-2.8	20
SFR9220	-200	1.5	415	19	4.17	-3.1	30
SFR9210		3	220	11	6.58	-1.6	19
SFR9224	-250	2.4	415	20	4.17	-2.5	30
SFR9214		4	225	11	6.58	-1.53	19
SFR9310	-400	8	300	21	3.5	-1.5	36

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS(Typ)} (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
TO-263 /D²PAK							
N-Channel							
IRFWZ44A	60	0.024	1770	83	1.19	50	126
IRFWZ34A		0.04	1040	54	1.94	30	77
IRFWZ24A		0.07	600	32	3.43	17	44
IRFWZ14A		0.14	280	17	4.96	10	30
IRLWZ44A		0.025@5V	1530	55	1.2	50	125
IRLWZ34A		0.046@5V	970	35	1.81	30	83
IRLWZ24A		0.075@5V	560	20	3.3	17	45
IRLWZ14A		0.155@5V	265	10	4.84	10	31
IRFW550A	100	0.04	1750	97	0.9	40	167
IRFW540A		0.052	1320	78	1.4	28	107
IRFW530A		0.11	610	36	2.74	14	55
IRFW520A		0.2	370	22	3.31	9.2	45
IRFW510A		0.4	190	12	4.51	5.6	33
IRLW540A		0.058@5V	1215	54	1.24	28	121
IRLW530A		0.12@5V	580	24	2.41	14	62
IRLW520A		0.22@5V	340	15	3.04	9.2	49
IRLW510A	200	0.44@5V	180	8	4.1	5.6	37
IRFW640A		0.18	1160	58	0.9	18	139
IRFW630A		0.4	500	29	1.74	9	72
IRFW620A		0.8	275	17	2.65	5	47
IRFW610A		1.5	160	10	3.28	3.3	38

* Preliminary information; samples available. Full production release is pending reliability completion.

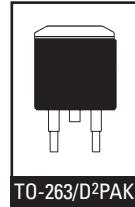
Note: Parts highlighted in red are new since June, 1998 or previously Samsung Power Device Division parts.



Surface-Mount Power MOSFETs (continued)

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	BV _{DSS} (V)	R _{D(on) Max} (Ω) V _{GS} @10V	C _{iss(Typ)} (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
TO-263/D²PAK (cont.)							
N-Channel (cont.)							
IRLW640A	200	0.18@5V	1310	56	1.14	18	110
IRLW630A		0.4@5V	580	27	1.81	9	69
IRLW620A		0.8@5V	330	15	3.17	5	39
IRLW610A		1.5@5V	185	9	3.81	3.3	33
IRFW644A	250	0.28	1230	61	0.9	14	139
IRFW634A		0.45	730	40	1.69	8.1	74
IRFW624A		1.1	335	20	2.54	4.1	49
IRFW614A		2	180	12	3.14	2.8	40
IRFW740A	400	0.55	1180	75	0.93	10	134
IRFW730A		1	675	42	1.71	5.5	73
IRFW720A		1.8	385	26	2.57	3.3	46
IRFW710A		3.6	215	14	3.44	2	36
IRFW840A	500	0.85	1190	74	0.93	8	134
IRFW830A		1.5	690	43	1.71	4.5	73
IRFW820A		3	390	26	2.57	2.5	49
SSW1N50A		5.5	220	16	3.44	1.5	36
SSW7N60A	600	1.2	1150	65	0.85	7	147
SSW4N60A		2.5	545	34	1.25	4	100
SSW2N60A		5	315	21	2.32	2	54
SSW1N60A		12	145	11	3.67	1	34
SSW6N70A	700	1.8	920	54	0.96	6	130
SSW5N80A		2.2	1100	72	0.89	5	140
SSW4N80AS		3	880	56	0.96	4.5	130
SSW4N80A		4	700	44	1.04	4	120
SSW3N80A	800	4.8	585	38	1.25	3	100
SSW2N80A		6	425	30	1.56	2	80
SSW5N90A		2.9	1110	74	0.89	5	140
SSW4N90AS		3.7	910	57	0.96	4.5	130
SSW4N90A	900	5	730	48	1.04	4	120
SSW3N90A		6.2	590	39	1.25	3	100
SSW2N90A		7	435	33	1.56	2	80
P-Channel							
SFV9Z34	-60	0.14	890	38	1.83	-18	82
SFV9Z24		0.28	465	19	3.06	-9.7	49
SFV2955		0.3	465	19	3.06	-9.4	49
SFV9Z14		0.5	270	11	3.95	-6.7	38
SFV9540	-100	0.2	1180	54	1.14	-17	132
SFV9530		0.3	800	38	2.27	-10.5	66
SFV9520		0.6	425	20	3.06	-6	49
SFV9510		1.2	260	10	4.69	-3.6	32
SFV9640	-200	0.5	1220	59	1.02	-11	123
SFV9630		0.8	740	36	1.79	-6.5	70
SFV9620		1.5	415	19	3.29	-3.5	38
SFV9610		3	220	11	6.25	-1.8	20
SFV9644	-250	0.8	1205	58	1.02	-8.6	123
SFV9634		1.3	750	37	1.79	-5	70
SFV9624		2.4	415	20	3.29	-2.7	38
SFV9614		4	225	11	6.25	-1.6	20



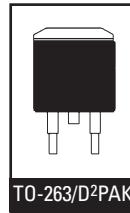
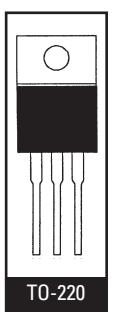
TO-263/D²PAK

Surface-Mount and Through-Hole Power MOSFETs

Part Number	V _{DS} (V)	R _{DS(on)} Max (Ω)	V _{GS} @ 5V	I _D (A)	P _D (W)	
		10V	5V			
TO-263(D²PAK)/TO-220						
N-Channel						
NDB/NDP6020	20	0.023@4.5V	0.028@2.7V	35	50	
FDB/FDP8030L*	30	0.0035	0.0045@4.5V	80	187	
FDB/FDP7045L*	30	0.0045	0.006@4.5V	75	125	
FDB/FDP6670AL	30	0.0065	0.0085@4.5V	80	75	
FDB/FDP7030L	30	0.007	0.01	100	125	
FDB/FDP7030BL	30	0.0085	0.012@4.5V	60	65	
FDB/FDP6035L	30	0.011	0.019@4.5V	58	75	
FDB/FDP6035AL	30	0.0125	0.017@4.5V	48	58	
NDB/NDP6030L	30	0.0135	0.02@4.5V	52	75	
FDB/FDP6030L	30	0.0135	0.02@4.5V	52	75	
FDB/FDP6030BL*	30	0.018	0.024@4.5V	40	60	
NDB/NDP6030	30	0.018		46	75	
FDB/FDP603AL	30	0.022	0.036@4.5V	33	50	
NDB/NDP603AL	30	0.022	0.04@4.5V	25	50	
FDB/FDP4030L	30	0.035	0.055@4.5V	20	37.5	
NDB/NDP7052	50	0.01		75	150	
NDB/NDP7050	50	0.013		75	150	
NDB/NDP7051	50	0.013		70	130	
NDB/NDP6051	50	0.022		48	100	
NDB/NDP6050	50	0.025		48	100	
NDB/NDP4050	50	0.1		15	50	
NDB/NDP7052L	50	0.0075	0.01	75	150	
NDB/NDP7050L	50	0.01	0.013	75	150	
NDB/NDP7051L	50	0.0115	0.0145	67	130	
NDB/NDP6051L	50	0.018	0.023	48	100	
NDB/NDP6050L	50	0.02	0.025	48	100	
NDB/NDP4050L	50	0.08	0.1	15	50	
NDB/NDP7060	60	0.013		75	150	
NDB/NDP7061	60	0.016		64	130	
NDB/NDP6060	60	0.025		48	100	
NDB/NDP5060	60	0.05		26	68	
NDB/NDP4060	60	0.1		15	50	
NDB/NDP7060L	60	0.01	0.013	75	150	
NDB/NDP7061L	60	0.013	0.018	60	130	
FBD/FDP5680*	60	0.02	0.023@6V	40	65	
NDB/NDP6060L	60	0.02	0.025	48	100	
FBD/FDP5690*	60	0.027	0.032@6V	32	58	
NDB/NDP5060L	60	0.035	0.05	26	68	
NDB/NDP4060L	60	0.08	0.1	15	50	
NDB/NDP708A	80	0.022		60	150	
NDB/NDP608A	80	0.042		36	100	
NDB/NDP508A	80	0.08		19	75	
NDB/NDP408A	80	0.16		12	50	
NDB/NDP710A	100	0.038		42	150	
NDB/NDP610A	100	0.065		26	100	
NDB/NDP510A	100	0.12		15	75	
NDB/NDP410A	100	0.25		9	50	
P-Channel						
NDB/NDP6020P	-20	0.05@4.5V	0.07@2.7V	-24	60	
FDB/FDP4020P*	-20	0.08@4.5V	0.11@2.5V	-16	37.5	
NDB/NDP6030PL	-30	0.025	0.042@4.5V	-30	75	

* Preliminary information; samples available. Full production release is pending reliability completion.

Note: Parts highlighted in red are new since June, 1998.

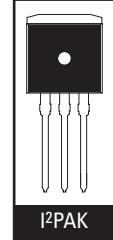
TO-263/D²PAK

TO-220

Surface-Mount and Through-Hole Power MOSFETs (continued)

Note: All parts on this page were previously Samsung Power Device Division parts.

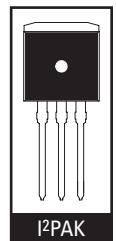
Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{iss} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
I²PAK							
N-Channel							
IRFI244A		0.024	1770	83	1.19	50	126
IRFI234A		0.04	1040	54	1.94	30	77
IRFI224A		0.07	600	32	3.43	17	44
IRFI214A		0.14	280	17	4.96	10	30
IRLIZ44A	60	0.025@5V	1530	55	1.2	50	125
IRLIZ34A		0.046@5V	970	35	1.81	30	83
IRLIZ24A		0.075@5V	560	20	3.3	17	45
IRLIZ14A		0.155@5V	265	10	4.84	10	31
IRFI550A		0.04	1750	97	0.9	40	167
IRFI540A		0.052	1320	78	1.4	28	107
IRFI530A		0.11	610	36	2.74	14	55
IRFI520A	100	0.2	370	22	3.31	9.2	45
IRFI510A		0.4	190	12	4.51	5.6	33
IRLIZ40A		0.058@5V	1215	54	1.24	28	121
IRLIZ30A		0.12@5V	580	24	2.41	14	62
IRLIZ20A		0.22@5V	340	15	3.04	9.2	49
IRLIZ10A		0.44@5V	180	8	4.1	5.6	37
IRFI640A	200	0.18	1160	58	0.9	18	139
IRFI630A		0.4	500	29	1.74	9	72
IRFI620A		0.8	275	17	2.65	5	47
IRFI610A		1.5	160	10	3.28	3.3	38
IRLIZ40A		0.18@5V	1310	56	1.14	18	110
IRLIZ30A		0.4@5V	580	27	1.81	9	69
IRLIZ20A		0.8@5V	330	15	3.17	5	39
IRLIZ10A		1.5@5V	185	9	3.81	3.3	33
IRFI644A	250	0.28	1230	61	0.9	14	139
IRFI634A		0.45	730	40	1.69	8.1	74
IRFI624A		1.1	335	20	2.54	4.1	49
IRFI614A		2	180	12	3.14	2.8	40
IRFI740A	400	0.55	1180	75	0.93	10	134
IRFI730A		1	675	42	1.71	5.5	73
IRFI720A		1.8	385	26	2.57	3.3	46
IRFI710A		3.6	215	14	3.44	2	36
IRFI840A	500	0.85	1190	74	0.93	8	134
IRFI830A		1.5	690	43	1.71	4.5	73
IRFI820A		3	390	26	2.57	2.5	49
SSI1N50A		5.5	220	16	3.44	1.5	36
SSI1N60A	600	1.2	1150	65	0.85	7	147
SSI1N60A		2.5	545	34	1.25	4	100
SSI2N60A		5	315	21	2.32	2	54
SSI1N60A		12	145	11	3.67	1	34
SSI6N70A	700	1.8	920	54	0.96	6	130
SSI5N80A		2.2	1100	72	0.89	5	140
SSI4N80AS		3	880	56	0.96	4.5	130
SSI4N80A	800	4	700	44	1.04	4	120
SSI3N80A		4.8	585	38	1.25	3	100
SSI2N80A		6	425	30	1.56	2	80
SSI5N90A	900	2.9	1110	74	0.89	5	140
SSI4N90AS		3.7	910	57	0.96	4.5	130
SSI4N90A		5	730	48	1.04	4	120
SSI3N90A		6.2	590	39	1.25	3	100
SSI2N90A		7	435	33	1.56	2	80



Surface-Mount and Through-Hole Power MOSFETs (continued)

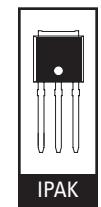
Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
I²PAK (cont.)							
P-Channel							
SFI9Z34	-60	0.14	890	38	1.83	-18	82
SFI9Z24		0.28	465	19	3.06	-9.7	49
SFI2955		0.3	465	19	3.06	-9.4	49
SFI9Z14		0.5	270	11	3.95	-6.7	38
SFI9540	-100	0.2	1180	54	1.14	-17	132
SFI9530		0.3	800	38	2.27	-10.5	66
SFI9520		0.6	425	20	3.06	-6	49
SFI9510		1.2	260	10	4.69	-3.6	32
SFI9640	-200	0.5	1220	59	1.02	-11	123
SFI9630		0.8	740	36	1.79	-6.5	70
SFI9620		1.5	415	19	3.29	-3.5	38
SFI9610		3	220	11	6.25	-1.8	20
SFI9644	-250	0.8	1205	58	1.02	-8.6	123
SFI9634		1.3	750	37	1.79	-5	70
SFI9624		2.4	415	20	3.29	-2.7	38
SFI9614		4	225	11	6.25	-1.6	20



Through-Hole Power MOSFETs

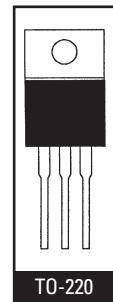
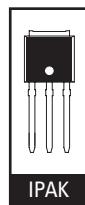
Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
IPAK							
N-Channel							
IRFU024A	60	0.07	600	32	4.14	15	30
IRFU014A		0.14	280	17	7.04	8.2	18
SSU3055A		0.15	280	17	7.04	8	18
IRLU024A		0.075@5V	560	20	4.14	15	30
IRLU014A		0.155@5V	265	10	6.81	8.2	18
SSU3055LA		0.165@5V	265	10	6.73	8	18
IRFU130A	100	0.11	610	36	3.08	13	41
IRFU120A		0.2	370	22	3.9	8.4	32
IRFU110A		0.4	190	12	6.26	4.7	20
IRLU130A		0.12@5V	580	24	2.7	13	46
IRLU120A		0.22@5V	340	15	3.5	8.4	35
IRLU110A		0.44@5V	180	8	5.6	4.7	22
IRFU230A	200	0.4	500	29	2.5	7.5	50
IRFU220A		0.8	275	17	3.14	4.6	40
IRFU210A		1.5	160	10	4.9	2.7	26
IRLU230A		0.4@5V	580	27	2.6	7.5	48
IRLU220A		0.8@5V	330	15	3.7	4.6	33
IRLU210A		1.5@5V	185	9	5.7	2.7	21
IRFU224A	250	1.1	335	20	2.96	3.8	42
IRFU214A		2	180	12	5.08	2.2	25
IRFU320A	400	1.8	385	26	3.05	3.1	41
IRFU310A		3.6	215	14	4.76	1.7	26
IRFU420A	500	3	390	26	3.05	2.3	41
SSU1N50A		5.5	220	16	4.76	1.3	26
SSU2N60A	600	5	315	21	2.87	1.8	44
SSU1N60A		12	145	11	4.53	0.9	28



Through-Hole Power MOSFETs (continued)

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)	
IPAK (cont.)								
P-Channel								
SFU9034	-60	0.14	890	38	2.55	-14	49	
SFU9024		0.28	465	19	3.91	-7.8	32	
SFU2955		0.3	465	19	3.91	-7.6	32	
SFU9014		0.5	270	11	5.21	-5.3	24	
SFU9130	-100	0.3	800	38	2.19	-9.8	57	
SFU9120		0.6	425	20	3.91	-4.9	32	
SFU9110		1.2	260	10	6.25	-2.8	20	
SFU9220		1.5	415	19	4.17	-3.1	30	
SFU9210	-200	3	220	11	6.58	-1.6	19	
SFU9224		2.4	415	20	4.17	-2.5	30	
SFU9214		4	225	11	6.58	-1.53	19	
SFU9310		-400	8	300	21	3.5	-1.5	
TO-220								
N-Channel								
SSP80N06A	60	0.01	4630	200	1.04	80	144	
IRFZ44A		0.024	1770	83	1.19	50	126	
IRFZ34A		0.04	1040	54	1.94	30	77	
IRFZ24A		0.07	600	32	3.43	17	44	
IRFZ14A		0.14	280	17	4.96	10	30	
IRLZ44A		0.025@5V	1530	55	1.2	50	125	
IRLZ34A		0.046@5V	970	35	1.81	30	83	
IRLZ24A		0.075@5V	560	20	3.3	17	45	
IRLZ14A		0.155@5V	265	10	4.84	10	31	
SSP70N10A		0.023	3750	195	0.8	55	188	
IRF550A	100	0.04	1750	97	0.9	40	167	
IRF540A		0.052	1320	78	1.4	28	107	
IRF530A		0.11	610	36	2.74	14	55	
IRF520A		0.2	370	22	3.31	9.2	45	
IRF510A		0.4	190	12	4.51	5.6	33	
IRL540A		0.058@5V	1215	54	1.24	28	121	
IRL530A		0.12@5V	580	24	2.41	14	62	
IRL520A		0.22@5V	340	15	3.04	9.2	49	
IRL510A		0.44@5V	180	8	4.1	5.6	37	
SSP45N20A		0.065	3030	152	0.71	35	176	
IRF650A	200	0.085	2300	123	0.8	28	156	
IRF640A		0.18	1160	58	0.9	18	139	
IRF630A		0.4	500	29	1.74	9	72	
IRF620A		0.8	275	17	2.65	5	47	
IRF610A		1.5	160	10	3.28	3.3	38	
IRL640A		0.18@5V	1310	56	1.14	18	110	
IRL630A		0.4@5V	580	27	1.81	9	69	
IRL620A		0.8@5V	330	15	3.17	5	39	
IRL610A		1.5@5V	185	9	3.81	3.3	33	
IRF654A		0.14	2300	114	0.8	21	156	
IRF644A	250	0.28	1230	61	0.9	14	139	
IRF634A		0.45	730	40	1.69	8.1	74	
IRF624A		1.1	335	20	2.54	4.1	49	
IRF614A		2	180	12	3.14	2.8	40	
IRF636A	275	0.5	730	40	1.69	8.1	74	
IRF750A		0.3	2140	131	0.8	15	156	
IRF740A		0.55	1180	75	0.93	10	134	
IRF730A	400	1	675	42	1.71	5.5	73	



Through-Hole Power MOSFETs (continued)

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS(Typ)} (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
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TO-220 (cont.)

N-Channel (cont.)

IRF720A	400	1.8	385	26	2.57	3.3	46
IRF710A		3.6	215	14	3.44	2	36
IRF840A	500	0.85	1190	74	0.93	8	134
IRF830A		1.5	690	43	1.71	4.5	73
IRF820A		3	390	26	2.57	2.5	49
SSP1N50A		5.5	220	16	3.44	1.5	36
SSP1N60A		0.8	1750	95	0.8	9	156
SSP7N60A	600	1.2	1150	65	0.85	7	147
SSP4N60AS		2.5	545	34	1.25	4	100
SSP2N60A		5	315	21	2.32	2	54
SSP1N60A		12	145	11	3.67	1	34
SSP6N70A	700	1.8	920	54	0.96	6	130
SSP7N80A	800	1.8	1500	92	0.78	7	160
SSP6N80A		2	1500	92	0.78	6	160
SSP5N80A		2.2	1100	72	0.89	5	140
SSP4N80AS		3	880	56	0.96	4.5	130
SSP4N80A		4	700	44	1.04	4	120
SSP3N80A		4.8	585	38	1.25	3	100
SSP2N80A		6	425	30	1.56	2	80
SSP6N90A	900	2.3	1560	95	0.78	6	160
SSP5N90A		2.9	1110	74	0.89	5	140
SSP4N90AS		3.7	910	57	0.96	4.5	130
SSP4N90A		5	730	48	1.04	4	120
SSP3N90A		6.2	590	39	1.25	3	100
SSP2N90A		7	435	33	1.56	2	80

P-Channel

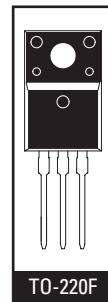
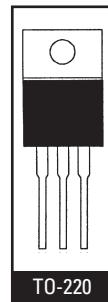
SFP9Z34	-60	0.14	890	38	1.83	-18	82
SFP9Z24		0.28	465	19	3.06	-9.7	49
SFP2955		0.3	465	19	3.06	-9.4	49
SFP9Z14		0.5	270	11	3.95	-6.7	38
SFP9540	-100	0.2	1180	54	1.14	-17	132
SFP9530		0.3	800	38	2.27	-10.5	66
SFP9520		0.6	425	20	3.06	-6	49
SFP9510		1.2	260	10	4.69	-3.6	32
SFP9640	-200	0.5	1220	59	1.02	-11	123
SFP9630		0.8	740	36	1.79	-6.5	70
SFP9620		1.5	415	19	3.29	-3.5	38
SFP9610		3	220	11	6.25	-1.8	20
SFP9644	-250	0.8	1205	58	1.02	-8.6	123
SFP9634		1.3	750	37	1.79	-5	70
SFP9624		2.4	415	20	3.29	-2.7	38
SFP9614		4	225	11	6.25	-1.6	20

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS(Typ)} (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
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TO-220F

N-Channel

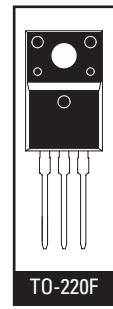
SSS80N06A	60	0.011	4630	200	2.69	45	56
IRFSZ44A		0.024	1770	83	3.31	30	45
IRFSZ34A		0.04	1040	54	4.36	20	34
IRFSZ24A		0.07	600	32	5.06	14	30
IRFSZ14A		0.14	280	17	7.89	8	19
IRLSZ44A		0.025@5V	1530	55	3.33	30	45
IRLSZ34A		0.046@5V	970	35	4.07	20	37
IRLSZ24A		0.075@5V	560	20	4.86	14	31
IRLSZ14A		0.155@5V	265	10	7.56	8	20



Through-Hole Power MOSFETs (continued)

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	BV _{DSS} (V)	R _{D(on)} Max (Ω) V _{GS} @10V	C _{iss} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
TO-220F (cont.)							
N-Channel (cont.)							
SSS70N10A		0.023	3750	195	3.09	28	49
IRFS550A		0.04	1750	97	3.27	21	46
IRFS540A		0.052	1320	78	3.8	17	39
IRFS530A		0.11	610	36	4.69	10.7	32
IRFS520A		0.2	370	22	5.4	7.2	28
IRFS510A		0.4	190	12	6.98	4.5	21
IRLS540A		0.058@5V	1215	54	3.4	17	44
IRLS530A		0.12@5V	580	24	4.2	10.7	36
IRLS520A		0.22@5V	340	15	5	7.2	30
IRLS510A		0.44@5V	180	8	6.5	4.5	23
IRFS650A		0.085	2300	123	2.51	15.8	50
IRFS640A		0.18	1160	58	2.89	9.8	43
IRFS630A		0.4	500	29	3.33	6.5	38
IRFS620A		0.8	275	17	3.95	4.1	32
IRFS610A		1.5	160	10	5.71	2.5	22
IRLS640A		0.18@5V	1310	56	3.13	9.8	40
IRLS630A		0.4@5V	580	27	3.47	6.5	36
IRLS620A		0.8@5V	330	15	4.8	4.1	26
IRLS610A		1.5@5V	185	9	6.6	2.5	19
IRFS654A		0.14	2300	114	2.5	12	50
IRFS644A		0.28	1230	61	2.89	7.9	43
IRFS634A		0.45	730	40	3.29	5.8	38
IRFS624A		1.1	335	20	3.7	3.4	34
IRFS614A		2	180	12	5.58	2.1	22
IRFS750A		0.3	2140	131	2.55	8.4	49
IRFS740A		0.55	1180	75	2.86	5.7	44
IRFS730A		1	675	42	3.31	3.9	38
IRFS720A		1.8	385	26	3.74	2.8	33
IRFS710A		3.6	215	14	5.37	1.6	23
IRFS840A		0.85	1190	74	2.86	4.6	44
IRFS830A		1.5	690	43	3.31	3.1	38
IRFS820A		3	390	26	3.74	2.1	33
SSS1N50A		5.5	220	16	5.37	1.2	23
SSS10N60A		0.8	1750	95	2.5	5.1	50
SSS7N60A		1.2	1150	65	2.6	4	48
SSS4N60AS		2.5	545	34	3.79	2.3	33
SSS2N60A		5	315	21	5.5	1.3	23
SSS1N60A		12	145	11	7.48	0.7	17
SSS6N70A		1.8	920	54	3.13	4	40
SSS7N80A		1.8	1500	92	2.5	4	50
SSS6N80A		2	1500	92	2.5	3.5	50
SSS5N80A		2.2	1100	72	2.78	3	45
SSS4N80AS		3	880	56	3.13	2.8	40
SSS4N80A		4	700	44	3.13	2.5	40
SSS3N80A		4.8	585	38	3.57	2	35
SSS2N80A		6	425	30	4.17	1.5	30
SSS6N90A		2.3	1560	95	2.5	3.5	50
SSS5N90A		2.9	1110	74	2.78	3	45
SSS4N90AS		3.7	910	57	3.13	2.8	40
SSS4N90A		5	730	48	3.13	2.5	40
SSS3N90A		6.2	590	39	3.57	2	35
SSS2N90A		7	435	33	4.17	1.5	30
P-Channel							
SFS9Z34	-60	0.14	890	38	4.17	-12	36
SFS9Z24		0.28	465	19	5.2	-7.5	29
SFS2955		0.3	465	19	5.2	-7.3	29
SFS9Z14		0.5	270	11	6.25	-5.3	24



TO-220F

Through-Hole Power MOSFETs (continued)

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
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TO-220F (cont.)

P-Channel (cont.)

SFS9540	-100	0.2	1180	54	2.83	-10.7	53
SFS9530		0.3	800	38	3.85	-8	39
SFS9520		0.6	425	20	5.17	-4.6	29
SFS9510		1.2	260	10	9.38	-2.5	16
SFS9640	-200	0.5	1220	59	3.13	-6.2	40
SFS9630		0.8	740	36	3.79	-4.4	33
SFS9620		1.5	415	19	4.46	-3	28
SFS9610		3	220	11	9.62	-1.4	13
SFS9644	-250	0.8	1205	58	3.13	-4.9	40
SFS9634		1.3	750	37	3.79	-3.4	33
SFS9624		2.4	415	20	4.46	-2.4	28
SFS9614		4	225	11	9.62	-1.27	13

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)
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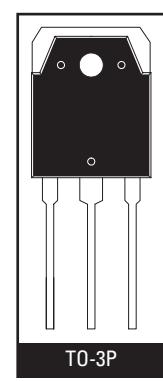
TO-3P

N-Channel

SSH80N06A	60	0.01	4630	200	0.9	85	163
SSH70N10A	100	0.023	3750	195	0.5	70	300
IRFP150A		0.04	1750	97	0.78	43	193
IRFP140A		0.052	1320	78	1.14	31	131
SFH154		0.075	2590	110	0.61	34	204
SSH45N20A	200	0.065	3030	152	0.45	45	278
IRFP250A		0.085	2300	123	0.61	32	204
IRFP240A		0.18	1160	58	0.69	20	180
IRFP254A		0.14	2300	114	0.56	25	221
IRFP244A	250	0.28	1230	61	0.69	16	180
SSH25N40A		0.2	3180	182	0.45	25	278
IRFP350A		0.3	2140	131	0.62	17	202
IRFP340A		0.55	1180	75	0.77	11	162
SSH22N50A	400	0.25	3940	236	0.45	22	278
IRFP450A		0.4	2500	157	0.61	14	205
IRFP440A		0.85	1190	74	0.77	8.5	162
SSH17N60A		0.45	3050	166	0.45	17	278
SSH10N60A	600	0.8	1750	95	0.65	10	193
SSH7N60A		1.2	1150	65	0.78	7.3	160
SSH6N70A		1.8	920	54	0.89	6	140
SSH10N80A		0.95	2700	172	0.45	10	280
SSH9N80A	800	1.3	2020	127	0.52	9	240
SSH8N80A		1.5	2020	127	0.52	8	240
SSH7N80A		1.8	1500	92	0.63	7	200
SSH6N80AS		2	1500	92	0.63	6	200
SSH5N80A	900	2.2	1105	72	0.78	5	160
SSH4N80AS		3	880	56	0.89	4.5	140
SSH10N90A		1.2	2770	176	0.45	10	280
SSH9N90A		1.4	2770	176	0.45	9	280
SSH8N90A	900	1.6	2070	130	0.52	8	240
SSH7N90A		1.8	2070	130	0.52	7	240
SSH6N90A		2.3	1560	95	0.63	6	200
SSH5N90A		2.9	1110	74	0.78	5	160
SSH4N90AS		3.7	910	57	0.89	4.5	140

P-Channel

SFH9140	-100	0.2	1180	54	0.9	-19	166
SFH9154	-150	0.2	3000	130	0.61	-18	204
SFH9240	-200	0.5	1220	59	1	-11	126
SFH9244	-250	0.8	1205	58	1	-8.7	126

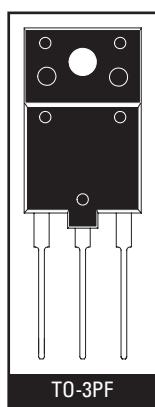
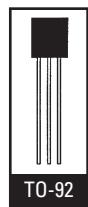


TO-220F
TO-3P

Through-Hole Power MOSFETs (continued)

Part Number	BV _{DSS} (V)	R _{DS(on)} Max (Ω) V _{GS} @10V	C _{ISS} (Typ) (pF)	Q _g (Max) (nC)	R _{θJC} (°C/W)	I _D (A)	P _D (W)	
TO-3PF								
N-Channel								
SSF80N06A								
	60	0.01	4630	200	2.2	55	68	
SSF70N10A								
	100	0.023	3750	195	1.25	44	120	
IRFS150A		0.04	1750	97	1.5	31	100	
IRFS140A		0.052	1320	78	2.08	23	72	
SSF45N20A								
	200	0.065	3030	152	1.25	26.4	100	
IRFS250A		0.085	2300	123	1.38	21.3	90	
IRFS240A		0.18	1160	58	1.7	12.8	73	
IRFS254A								
	250	0.14	2300	114	1.38	16	90	
IRFS244A		0.28	1230	61	1.7	10.2	73	
SSF25N40A								
	400	0.2	3180	182	1.25	14.3	100	
IRFS350A		0.3	2140	131	1.35	11.5	92	
IRFS340A		0.55	1180	75	1.46	8	85	
SSF22N50A								
	500	0.25	3940	236	1.25	12.4	100	
IRFS450A		0.4	2500	157	1.3	9.6	96	
IRFS440A		0.85	1190	74	1.46	6.2	85	
SSF17N60A								
	600	0.45	3050	166	1.25	9	100	
SSF10N60A		0.8	1750	95	1.38	6.9	90	
SSF7N60A		1.2	1150	65	1.45	5.4	86	
SSF6N70A								
	700	1.8	920	54	1.47	5	85	
SSF10N80A								
		0.95	2700	172	1.25	6.5	100	
SSF9N80A								
	800	1.3	2020	127	1.32	6	95	
SSF8N80A		1.5	2020	127	1.32	5.5	95	
SSF7N80A		1.8	1500	92	1.39	5	90	
SSF6N80A								
	900	2	1500	92	1.39	4.5	90	
SSF5N80A		2.2	1100	72	1.47	4	85	
SSF4N80AS		3	880	56	1.47	3.5	85	
SSF10N90A								
	900	1.2	2770	176	1.25	6.5	100	
SSF9N90A		1.4	2770	176	1.25	6	100	
SSF8N90A		1.6	2070	130	1.32	5.5	95	
SSF7N90A		1.8	2070	130	1.32	5	95	
SSF6N90A		2.3	1560	95	1.39	4.5	90	
SSF5N90A		2.9	1110	74	1.47	4	85	
SSF4N90AS		3.7	910	57	1.47	3.5	85	
P-Channel								
SFF9140	-100	0.2	1180	54	1.88	-13	80	
SFF9240	-200	0.5	1220	59	2.08	-7.6	60	
SFF9244	-250	0.8	1205	58	2.08	-6	60	

Part Number	V _{DS} (V)	R _{DS (ON)} Max (Ω) V _{GS} @		I _D (A)	P _D (W)			
		10V	4.5V					
TO-92								
N-Channel								
BS270	60	2	3	0.4	0.625			
2N7000		5	5.3	0.2	0.4			
BS170		5		0.5	0.83			
BSS100	100	6	10	0.22	0.63			
P-Channel								
BSS110	-50	10		-0.17	0.63			
NDF0610	-60	10	20	-0.18	0.8			



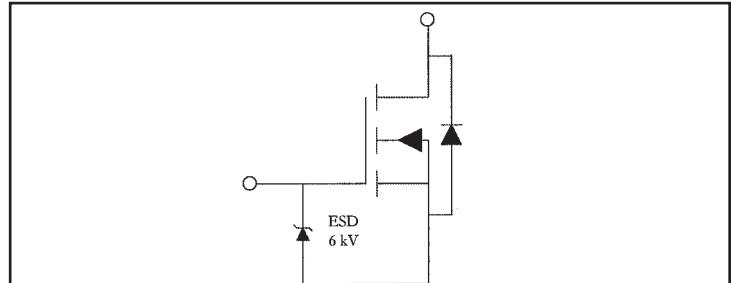
Note: Parts highlighted in red are previously Samsung Power Device Division parts.

Digital MOSFETs with E.S.D. Protection♦

Part Number	V _{DS} (V)	R _{DS(on)} Max (Ω)		V _{GS@} 4.5V	I _D (A)	P _D (W)	Configuration					
		Max (Ω)	V _{GS@} 2.7V									
SOT-23												
N-Channel												
FDV303N	25	0.45	0.6	0.68	0.35	Single						
FDV301N	25	4	5	0.22	0.35	Single						
P-Channel												
FDV304P	-25	1.1	1.5	-0.46	0.35	Single						
FDV302P	-25	10	13	-0.12	0.35	Single						

Part Number	V _{DS} (V)	R _{DS(on)} Max (Ω)		V _{GS@} 4.5V	I _D (A)	P _D (W)	Configuration					
		Max (Ω)	V _{GS@} 2.7V									
SuperSOT-6												
N-Channel												
FDC6303N	25	0.45	0.6	0.68	0.9	Dual						
FDC6301N	25	4	5	0.22	0.9	Dual						
P-Channel												
FDC6304P	-25	1.1	1.5	-0.46	0.9	Dual						
FDC6302P	-25	10	13	-0.12	0.9	Dual						
Complementary N-P Channel												
FDC6321C	25	0.45	0.6	0.68	0.9	N-Ch						
	-25	1.1	1.5	-0.46	0.9	P-Ch						
FDC6322C	25	4	5	0.22	0.9	N-Ch						
	-25	1.1	1.5	-0.46	0.9	P-Ch						
FDC6320C	25	4	5	0.22	0.9	N-Ch						
	-25	10	13	-0.12	0.9	P-Ch						

Part Number	V _{DS} (V)	R _{DS(on)} Max (Ω)		V _{GS@} 4.5V	I _D (A)	P _D (W)	Configuration					
		Max (Ω)	V _{GS@} 2.7V									
SC70-6												
N-Channel												
FDG6303N	25	0.45	0.6	0.5	0.3	Dual						
FDG6301N	25	4	5	0.22	0.3	Dual						
P-Channel												
FDG6304P	-25	1.1	1.5	-0.41	0.3	Dual						
FDG6302P	-25	10	13	-0.14	0.3	Dual						
Complementary N-P Channel												
FDG6321C	25	0.45	0.6	0.5	0.3	N-Ch						
	-25	1.1	1.5	-0.41	0.3	P-Ch						
FDG6322C	25	4.0	5	0.22	0.3	N-Ch						
	-25	1.1	1.5	-0.41	0.3	P-Ch						
FDG6320C*	25	4	5	0.22	0.3	N-Ch						
	-25	10	13	-0.14	0.3	P-Ch						



♦ Gate-Source Zener for ESD ruggedness; > 6kV Human Body Model (100pf/1500 Ohm).



* Preliminary information; samples available. Full production release is pending reliability completion.

Integrated Motor Driver MOSFETs

Part Number	V _{DS} (V)	R _{DS(on)} Max (Ω)		V _{GS@} 4.5V	I _D (A)	P _D (W)	Configuration					
		10V	4.5V									
SO-8												
MOSFET Half Bridge Motor Driver												
NDS8858H	30 -30	0.035 0.065	0.05 0.1	-4.8	6.3	2.5	N-Ch P-Ch					
NDS8839H	30 -30	0.045 0.09	0.075 0.15	-4	5.7	2.5	N-Ch P-Ch					
NDS8852H	30 -30	0.08 0.13	0.11 0.2	-3.4	4.3	2.5	N-Ch P-Ch					
SOIC-16												
3-Phase Brushless Motor Driver												
NDM3000	30 -30	0.09 0.16	0.13 0.25	±3	0.13	2.5	N-Ch P-Ch					
NDM3001	30 -30	0.115 0.24	0.16 0.36	±2.9	0.16	2.5	N-Ch P-Ch					

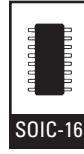
Integrated Load Switch MOSFETs

Part Number	V _{IN} (V) (Max)	R _(ON) Max (Ω)				I _L (A) @ V _(DROP) = 0.2V				
		V _{IN} = 12V V _{ON/OFF} = 3.3V	V _{IN} = 5V V _{ON/OFF} = 3.3V	V _{IN} = 3.3V V _{ON/OFF} = 3.3V	V _{IN} = 2.5V V _{ON/OFF} = 3.3V	V _{IN} = 12V V _{ON/OFF} = 3.3V	V _{IN} = 5V V _{ON/OFF} = 3.3V	V _{IN} = 3.3V V _{ON/OFF} = 3.3V	V _{IN} = 2.5V V _{ON/OFF} = 3.3V	
SC70-6										
Load Switch										
FDG6323L*	8		0.55		0.75		0.36		0.27	
FDG6324L	20	0.55	0.75			0.36	0.27			
SuperSOT-6										
Load Switch										
FDC6329L	8		0.07		0.105		2.8		1.9	
FDC6325L	8		0.13		0.18		1.5		1.0	
FDC6323L	8		0.2	0.3			1	0.67		
FDC6330L	20	0.08	0.125			2.5	1.6			
FDC6326L	20	0.125	0.2			1.5	1			
FDC6324L	20	0.2	0.3			1	0.67			
SuperSOT-8										
Load Switch										
FDR8321L*	8		0.07		0.105		2.9		2.0	
FDR8521L*	20	0.07	0.115			2.9	1.8			
SO-8										
Load Switch										
FDS8321L**	8		0.055		0.087		3.6		2.3	
FDS8521L**	20	0.052	0.08			3.8	2.5			

** Advance information; please contact Marketing for updated information.

* Preliminary information; samples available. Full production release is pending reliability completion.

Note: Parts highlighted in red are new since June, 1998.

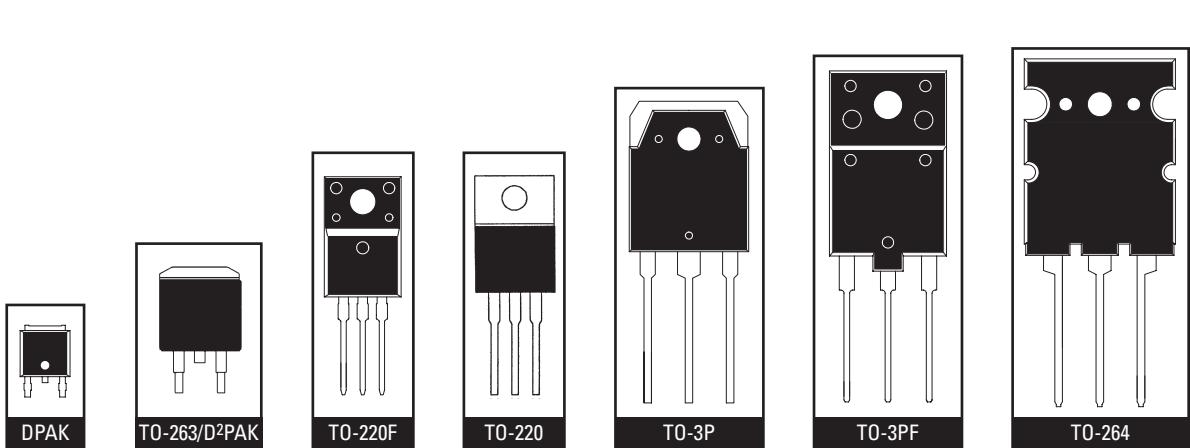


Discrete IGBTs

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	BV _{CES} (V) (Min)	I _C (A) (T _C =100°C)	V _{CE(sat)} (V) (Typ)	t _f (ns) (Typ)	Package	Symbol
High Performance (Low V_{ce(sat)}, High Speed)						
Power Conversion Application						
SGR6N60UF	600	3	2.1	80	DPAK	
SGW6N60UF	600	3	2.1	80	TO-263/D ² PAK	
SGW13N60UF	600	6.5	1.95	110		
SGW23N60UF	600	12	1.95	100	TO-220	
SGP6N60UF	600	3	2.1	80		
SGP13N60UF	600	6.5	1.95	110	TO-220	
SGP23N60UF	600	12	1.95	100		
SGP40N60UF	600	20	2.0	50	TO-220F	
SGS6N60UF	600	3	2.1	80		
SGS13N60UF	600	6.5	1.95	110	TO-3P	
SGS23N60UF	600	12	1.95	100		
SGH40N60UF	600	20	2.0	50	TO-3PF	
SGH80N60UF	600	40	2.0	70		
SGF40N60UF	600	20	2.0	50	TO-3PF	
SGF80N60UF	600	40	2.0	70		
SGF5N150UF	1500	5	4.7	6.5	DPAK	
SGR2N60UFD	600	1.2	2.1	80		
SGW6N60UFD	600	3	2.1	80	TO-263/D ² PAK	
SGW13N60UFD	600	6.5	1.95	110		
SGP6N60UFD	600	3	2.1	80	TO-220	
SGP13N60UFD	600	6.5	1.95	110		
SGS6N60UFD	600	3	2.1	80	TO-220F	
SGS13N60UFD	600	6.5	1.95	110		
SGS23N60UFD	600	12	1.95	100	TO-3P	
SGH13N60UFD	600	6.5	1.95	110		
SGH23N60UFD	600	12	1.95	100	TO-3PF	
SGH40N60UFD	600	20	2.0	50		
SGH80N60UFD	600	40	2.0	70	TO-3PF	
SGF40N60UFD	600	20	2.0	50		
SGF80N60UFD	600	40	2.0	70	TO-264	
SGL160N60UFD	600	80	2.0	100		

Part Number	BV _{CES} (V) (Min)	I _C (A) (T _C =100°C)	V _{CE(sat)} (V) (Typ)	t _f (ns) (Typ)	Package	Symbol
Short Circuit Rated (Rugged)						
Motor Application						
SGR5N60RUF	600	5	2.0	140	DPAK	
SGW5N60RUF	600	5	2.0	140	TO-263/D ² PAK	
SGP5N60RUF	600	5	2.0	140		
SGP10N60RUF	600	10	1.95	110	TO-220	
SGP15N60RUF	600	15	2.0	70		
SGP20N60RUF	600	20	2.0	84	TO-220F	
SGS5N60RUF	600	5	2.0	140		
SGS10N60RUF	600	10	1.95	110	TO-3P	
SGH30N60RUF	600	30	2.0	80		
SGH5N120RUF	1200	5	2.2	100	TO-3PF	
SGH10N120RUF	1200	10	2.2	100		
SGH15N120RUF	1200	15	2.2	100	TO-3PF	
SGH20N120RUF	1200	20	2.2	100		
SGH25N120RUF	1200	25	2.2	100	TO-264	
SGF30N60RUF	600	30	2.0	80		
SGW5N60RUFD	600	5	2.0	140	TO-263/D ² PAK	
SGP5N60RUFD	600	5	2.0	140	TO-220	
SGS5N60RUFD	600	5	2.0	140		
SGS10N60RUFD	600	10	2.1	110	TO-220F	
SGH10N60RUFD	600	10	1.95	110		
SGH15N60RUFD	600	15	2.0	70	TO-3P	
SGH20N60RUFD	600	20	2.0	84		
SGH30N60RUFD	600	30	2.0	80	TO-3PF	
SGH5N120RUFD	1200	5	2.2	100		
SGH10N120RUFD	1200	10	2.2	100	TO-264	
SGH15N120RUFD	1200	15	2.2	100		
SGH20N120RUFD	1200	20	2.2	100	TO-264	
SGL25N120RUFD	1200	25	2.2	100		
SGF30N60RUFD	600	30	2.0	80	TO-3PF	
SGL5N60RUFD	600	5	2.0	140		
SGL10N60RUFD	600	10	1.95	110	TO-264	
SGL15N60RUFD	600	15	2.0	70		
SGL20N60RUFD	600	20	2.0	84	TO-264	
SGL30N60RUFD	600	30	2.0	80		
SGL50N60RUFD	600	50	2.2	80	TO-264	



Standard IGBTs

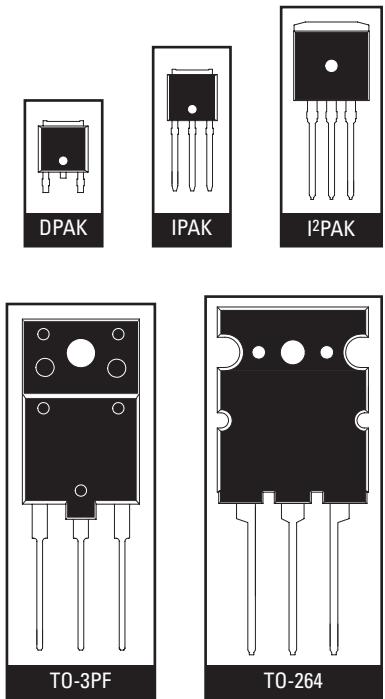
Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	BV _{CES} (V) (Min)	I _C (A) (T _C =100°C)	V _{CE(sat)} (V) (Typ)	t _f (ns) (Typ)	Package	Symbol
Consumer Application						
IH						
SGF15N90D	900	15	2.0	250	TO-3PF	
SGL60N90D	900	60	2.7	250		
SGL60N90DG3	900	60	2.0	250	TO-264	
SGL40N150D	1500	40	3.7	180		
SGL40N150	1500	40	3.7	180	TO-264	
Camera Strobe						
① SGR15N40L	400	130	4.5	1100	DPAK	
① SGR20N40L	400	150	4.5	1500		
① SGU15N40L	400	130	4.5	1100	IPAK	
① SGU20N40L	400	150	4.5	1500		
② SG125N40	400	170	5	7000	I ² PAK	
Compact Ballast						
③ SGU1N60XFD	600	1	2.5	90	IPAK	

① Logic Level Type (5V)

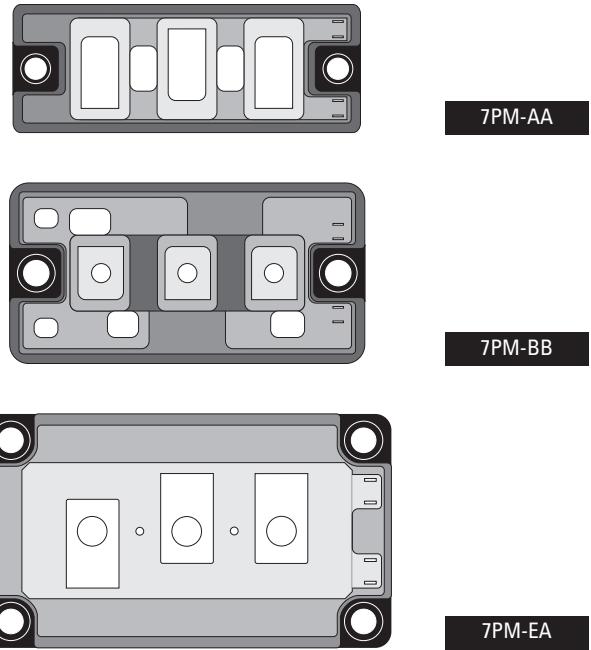
② Standard Type (20V)

③ Compatible with Standard Mosfet Type (10 ~ 12V)



Module IGBTs

Part Number	BV _{CES} (V) (Min)	I _C (A) (T _C =100°C)	V _{CE(sat)} (V) (Typ)	t _f (ns) (Typ)	Package	Symbol
Molding Type Module						
Chopper Module						
SMBH1G50US60	600	50	2.1	80	7PM-AA	
SMBH1G75US60	600	75	2.1	82		
SMBH1G100US60	600	100	2.1	85		
SMBH1G150US60	600	150	2.1	90		
SMBH1G200US60	600	200	2.1	100	7PM-BB	
SMBH1G300US60	600	300	2.1	90		
SMBH1G400US60	600	400	2.1	178	7PM-EA	
SMBH1G50US120**	1200	50	2.4	150	7PM-AA	
SMBH1G75US120**	1200	75	2.4	150		
SMBH1G100US120**	1200	100	2.4	150	7PM-BB	
SMBH1G150US120**	1200	150	2.4	150		
SMBH1G200US120**	1200	200	2.4	150	7PM-EA	
SMBL1G50US60	600	50	2.1	80	7PM-AA	
SMBL1G75US60	600	75	2.1	82		
SMBL1G100US60	600	100	2.1	85		
SMBL1G150US60	600	150	2.1	90	7PM-BB	
SMBL1G200US60	600	200	2.1	100		
SMBL1G300US60	600	300	2.1	90		
SMBL1G400US60	600	400	2.1	178	7PM-EA	
SMBL1G50US120**	1200	50	2.4	150	7PM-AA	
SMBL1G75US120**	1200	75	2.4	150		
SMBL1G100US120**	1200	100	2.4	150	7PM-BB	
SMBL1G150US120**	1200	150	2.4	150		
SMBL1G200US120**	1200	200	2.4	150	7PM-EA	



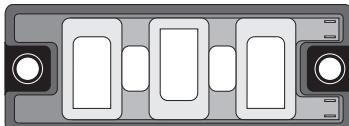
Modules are 1/2 scale; see page 70 for photos.

** Advance information; please contact Marketing for updated information.

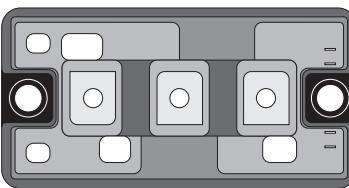
Module IGBTs (continued)

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	BV _{CES} (V) (Min)	I _C (A) (T _C =100°C)	V _{CE(sat)} (V) (Typ)	t _f (ns) (Typ)	Package	Remark
2-PAK Module						
Application (Inverters, Welding Machine, IH, UPS, CVCF, Robotics, Servo Controls)						
SM2G50US60	600	50	2.1	80	7PM-AA	
SM2G75US60	600	75	2.1	82		
SM2G100US60	600	100	2.1	85		
SM2G150US60	600	150	2.1	90		
SM2G200US60	600	200	2.1	100		
SM2G300US60	600	300	2.1	90		
SM2G400US60	600	400	2.1	178		
SM2G50US120**	1200	50	2.4	150	7PM-AA	
SM2G75US120**	1200	75	2.4	150		
SM2G100US120**	1200	100	2.4	150	7PM-BB	
SM2G150US120**	1200	150	2.4	150		
SM2G200US120**	1200	200	2.4	150		

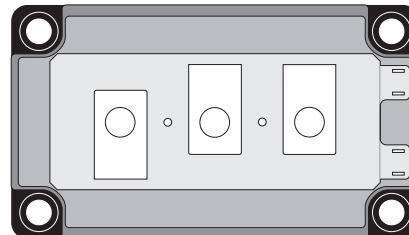


7PM-AA

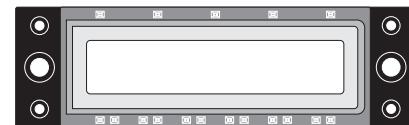


7PM-BB

Part Number	BV _{CES} (V) (Min)	I _C (A) (T _C =100°C)	V _{CE(sat)} (V) (Typ)	t _f (ns) (Typ)	Package	Remark
Econo Type Module						
Suitable Structure for 3 Phase Motor Application						
SME6G10US60	600	10	2.1	110	17PM-BA	
SME6G15US60	600	15	2.0	70		
SME6G20US60	600	20	2.0	84		
SME6G30US60	600	30	2.0	80	17PM-CA	
SME6G50US60	600	50	2.1	80		
SME6G50US120**	1200	5	2.4	150	17PM-BA	
SME6G10US120**	1200	10	2.4	150		
SME6G15US120**	1200	15	2.4	150	17PM-CA	
SME6G20US120**	1200	20	2.4	150		
SME6G25US120**	1200	25	2.4	150		

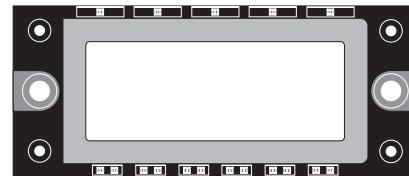


7PM-EA

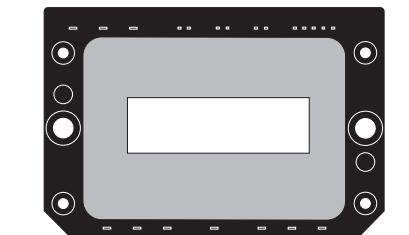


17PM-BA

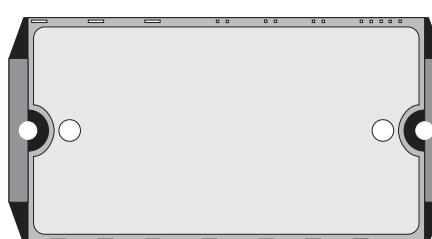
Part Number	BV _{CES} (V) (Min)	I _C (A) (T _C =100°C)	V _{CE(sat)} (V) (Typ)	t _f (ns) (Typ)	Package	Remark
Complex Type Module						
3 Phase Rectifier + Brake + 3 Phase Inverter						
SMC7G10US60	600	10	2.0	110	21PM-AA	
SMC7G15US60	600	15	2.0	70		
SMC7G20US60	600	20	2.0	84		
SMC7G30US60	600	30	2.0	80	21PM-BA	
SMC7G50US60	600	50	2.1	80		
SMC7G50US120**	1200	5	2.4	150	21PM-AA	
SMC7G10US120**	1200	10	2.4	150		
SMC7G15US120**	1200	15	2.4	150	21PM-BA	
SMC7G20US120**	1200	20	2.4	150		
SMC7G25US120**	1200	25	2.4	150		



17PM-CA



21PM-AA



21PM-BA

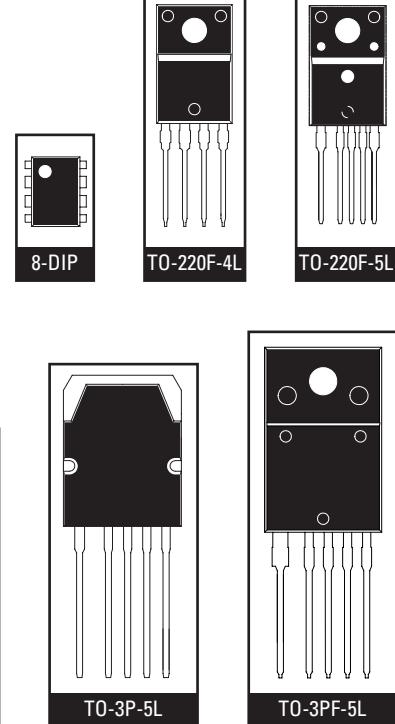
** Advance information; please contact Marketing for updated information.

SPS

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	Application	Ipeak (A)	Pmax (W)	Fopr (KHz)	R _{DS(on)} Max (Ω)	Package
SPS						
650V Line-Up						
KA5L0165RN	Charger	0.6	10	50	10 (Id=0.5A)	8-DIP
KA5M0165RN		0.6	10	70	10 (Id=0.5A)	8-DIP
KA5H0165RN		0.6	10	100	10 (Id=0.5A)	8-DIP
KA1H0165RN		0.6	10	100	10 (Id=0.5A)	8-DIP
KA1H0165R	Charger & Auxiliary power	0.6	13	100	10 (Id=0.5A)	TO-220F-4L
KA5L0165R		1.2	26	50	6 (Id=1.0A)	TO-220F-4L
KA5M0165R		1.2	26	70	6 (Id=1.0A)	TO-220F-4L
KA5H0165R		1.2	26	100	6 (Id=1.0A)	TO-220F-4L
KA5L0265R	Charger & Auxiliary power for PC & monitor	1.2	26	50	6 (Id=1.0A)	TO-220F-4L
KA1M0265R		1.2	26	70	6 (Id=1.0A)	TO-220F-4L
KA5M0265R		1.2	26	70	6 (Id=1.0A)	TO-220F-4L
KA5H0265R		1.2	26	100	6 (Id=1.0A)	TO-220F-4L
KA1H0265R	VCR/SVR USB	1.2	26	100	6 (Id=1.0A)	TO-220F-4L
KA1L0365R		2.15	47	50	4.5 (Id=1.5A)	TO-220F-4L
KA1M0365R		2.15	47	70	4.5 (Id=1.5A)	TO-220F-4L
KA1H0365R		2.15	47	100	4.5 (Id=1.5A)	TO-220F-4L
KA1M0565R	Adaptor	3.5	77	70	2.2 (Id=3.5A)	TO-220F-4L
KA1H0565R		3.5	123	100	2.2 (Id=3.5A)	TO-220F-4L
KA1M0765R		5	176	70	1.6 (Id=5.0A)	TO-3P-5L
KA1M0965R		6	211	70	1.2 (Id=6.0A)	TO-3P-5L
KA2S0765	Monitor	5	110	20~150	1.6 (Id=5.0A)	TO-3P-5L
KA2S0965		6	132	20~150	1.2 (Id=6.0A)	TO-3P-5L
KA2S09655		5	120	20~150	1.2 (Id=6.0A)	TO-3P-5L
KA2S1265		8	176	20~150	0.8 (Id=8.0A)	TO-3P-5L
KA3S0765RF	CTV	5	110	20~150	1.6 (Id=5.0A)	TO-3PF-5L
KA3S0965RF		6	140	20~150	1.2 (Id=6.0A)	TO-3PF-5L
KA3S1265RF		8	200	20~150	0.8 (Id=8.0A)	TO-3P-5L
KA3S1265RF		8	200	20~150	0.8 (Id=8.0A)	TO-3PF-5L
KA5H0165R**	Charger	0.6	12	100	10 (Id=0.5A)	TO-220F-4L
KA5M0265P**		1.2	25	70	6 (Id=1.0A)	TO-220F-4L
KA5M0765RC**	SMPS	5	150	70	1.6 (Id=5.0A)	TO-220-5L
KA5Q0765RT**		5	110	20~150	1.6 (Id=5.0A)	TO-220F-5L
KA5Q0965RF**	CTV	6	140	20~150	1.2 (Id=6.0A)	TO-3PF-5L
KA5Q1265RF**		8	200	20~150	0.8 (Id=8.0A)	TO-3PF-5L
KA5S0765C**	Monitor	5	110	20~150	1.6 (Id=5.0A)	TO-220-5L
KA5S0965**		6	140	20~150	1.2 (Id=6.0A)	TO-3P-5L
KA5S1265**		8	200	20~150	0.8 (Id=8.0A)	TO-3P-5L

Part Number	Application	Ipeak (A)	Pmax (W)	Fopr (KHz)	R _{DS(on)} Max (Ω)	Package
SPS						
800V Line-Up						
KA1M0280R	Charger & Auxiliary power for PC & monitor	1.2	26	70	7.0 (Id=1.0A)	TO-220F-4L
KA1M0280RB		1.2	26	70	7.0 (Id=1.0A)	TO-220F-4L
KA1H0280R		1.2	26	100	7.0 (Id=1.0A)	TO-220F-4L
KA1H0280RB		1.2	26	100	7.0 (Id=1.0A)	TO-220F-4L
KA1L0380	VCR/SVR	2.1	47	50	5.0 (Id=1.5A)	TO-220F-4L
KA1L0380RB		2.15	47	50	5.0 (Id=1.5A)	TO-220F-4L
KA5L0380R		2.15	47	50	5.0 (Id=1.5A)	TO-220F-4L
KA1M0380		2.15	47	70	5.0 (Id=1.5A)	TO-220F-4L
KA1M0380R	VCD/DVD	2.15	47	70	5.0 (Id=1.5A)	TO-220F-4L
KA1M0380RB		2.15	47	100	5.0 (Id=1.5A)	TO-220F-4L
KA1H0380R		2.15	47	100	5.0 (Id=1.5A)	TO-220F-4L
KA1H0380RB		2.15	47	100	5.0 (Id=1.5A)	TO-220F-4L
KA1M0680B	Adaptor	4	88	70	2.0 (Id=4.0A)	TO-3P-5L
KA1M0680RB		4	88	70	2.0 (Id=4.0A)	TO-3P-5L
KA1M0880	SMPS	5	176	70	1.5 (Id=5.0A)	TO-3P-5L
KA1M0880B		5	180	70	1.5 (Id=5.0A)	TO-3P-5L
KA2S0680	Monitor	4	88	20~150	2.0 (Id=4.0A)	TO-3P-5L
KA2S0680B		4	88	20~150	2.0 (Id=4.0A)	TO-3P-5L
KA2S0880		5	110	20~150	1.5 (Id=5.0A)	TO-3P-5L
KA2S0880B		5	110	20~150	1.5 (Id=5.0A)	TO-3P-5L
KA3S0680RB	CTV	4	117	20~150	2.0 (Id=4.0A)	TO-3P-5L
KA3S0680RFB		4	117	20~150	2.0 (Id=4.0A)	TO-3P-5L
KA3S0880RB		5	146	20~150	1.5 (Id=5.0A)	TO-3P-5L
KA3S0880RFB		5	146	20~150	1.5 (Id=5.0A)	TO-3P-5L
KA5Q0680RF**		4	117	20~150	2.0 (Id=4.0A)	TO-3P-5L
KA5Q0880RF**		5	146	20~150	1.5 (Id=5.0A)	TO-3P-5L



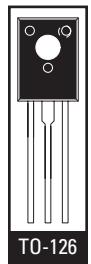
** Advance information; please contact Marketing for updated information.

Power Transistors

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number		V_{CEO} (V)	I_C (A)	h_{FE}			P_C^* (W)			
NPN	PNP			Min	Max	I_C (A)				
General Purpose Transistor										
TO-126										
KSC2682	KSA1142	180	0.1	100	320	0.01	8			
KSC3502		200		40	320	0.01	5			
KSC3503	KSA1381	300		40	320	0.01	7			
	KSA1406	200		40	320	0.01	7			
KSC3953		120	0.2	40	320	0.01	8			
KSC2258		250		40		0.04	4			
KSC2258A		300		40		0.04	4			
KSC2688		300	0.2	40	250	0.01	10			
BD157		250		30	240	0.05	20			
BD158		300		30	240	0.05	20			
KSE340	KSE350	300		30	240	0.05	20			
MJE340	MJE350	300		30	240	0.05	20			
BD159		350		30	240	0.05	20			
KSC2690	KSA1220	120	1.2	60	320	0.3	20			
KSC2690A	KSA1220A	160		60	320	0.3	20			
BD135	BD136	45	1.5	40	250	0.15	12.5			
BD137	BD138	60		40	160	0.15	12.5			
BD139	BD140	80		40	160	0.15	12.5			
KSE13003		400		8	40	0.5	20			
BD375	BD376	45	2	40	375	0.15	25			
BD233	BD234	45		25		1	25			
BD377	BD378	60		40	375	0.15	25			
BD235	BD236	60		25		1	25			
BD379	BD380	80		40	375	0.15	25			
BD237	BD238	80		25		1	25			
KSD882	KSB772	30	3	60	400	1	10			
KSE180	KSE170	40		50	250	0.1	12.5			
MJE180	MJE170	40		50	250	0.1	12.5			
KSD794	KSB744	45		60	320	0.5	10			
BD175	BD176	45		40	250	0.15	30			
KSD794A	KSB744A	60		60	320	0.5	10			
KSE181	KSE171	60		50	250	0.1	12.5			
MJE181	MJE171	60		50	250	0.1	12.5			
BD177	BD178	60		40	250	0.15	30			
KSE182	KSE172	80		50	250	0.1	12.5			
MJE182	MJE172	80	4	50	250	0.1	12.5			
BD179	BD180	80		40	250	0.15	30			
BD433	BD434	22		40	130	0.01	36			
BD435	BD436	32		40	130	0.01	36			
BD437	BD438	45		30	130	0.01	36			
BD439	BD440	60	5	40	140	0.5	36			
BD441	BD442	80		40	140	0.5	36			
KSE200	KSE210	25		45	180	2	15			
MJE200	MJE210	25	5	45	180	2	15			
KSD1691	KSB1151	60		100	400	2	20			

* P_C (W) = Collector dissipation

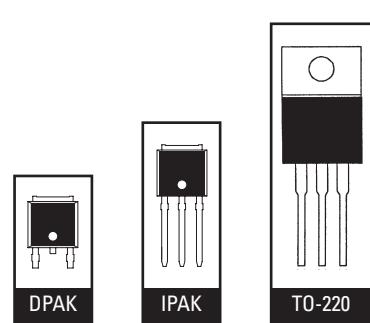


Power Transistors (continued)

Part Number		V_{CEO} (V)	I_C (A)	h_{FE}			P_c^* (W)			
NPN	PNP			Min	Max	I_c (A)				
General Purpose Transistor (cont.)										
DPAK										
KSH340	KSH350	300	0.5 1	30	240	0.05	15			
MJD340	MJD350	300		30	240	0.05	15			
KSH29	KSH30	40		15	75	1	15			
MJD29	MJD30	40		15	75	1	15			
KSH29C	KSH30C	100		15	75	1	15			
MJD29C	MJD30C	100		15	75	1	15			
KSH47		250		30	150	0.3	15			
MJD47		250		30	150	0.3	15			
KSH50		400		30	150	0.3	15			
MJD50		400		30	150	0.3	15			
KSH13003		400	1.5	8	40	0.5	40			
KSC323		400	2	20		0.1	20			
KSH31	KSH32	40	3	10	50	3	15			
MJD31	MJD32	40		10	50	3	15			
KSD1221	KSD906	60		60	300	0.5	20			
KSC31C	KSH32C	100		10	50	3	15			
MJD31C	MJD32C	100		10	50	3	15			
KSH200	KSH210	25	5	70		0.5	12.5			
MJD200	MJD210	25		70		0.5	12.5			
KSH41C	KSH42C	100	6	15	75	3	20			
MJD41C	MJD42C	100		15	75	3	20			
KSH44H11	KSH45H11	80	8	60		2	20			
MJD44H11	MJD45H11	80		60		2	20			
KSH3055	KSH2955	60	10	20	100	4	20			
MJD3055	MJD2955	60		20	100	4	20			
IPAK										
KSC5054	KSA5055	400	0.5	20	80	0.05	10			
KSH13003-I		400	1.5	8	40	0.5	40			
KSC3076	KSA1241	50	2	70	240	0.5	10			
KSC3073	KSA1243	30	3	70	240	0.5	10			
	KSA1242	25	5	100	320	0.5	10			
KSC3074	KSA1244	50		70	240	1	20			
TO-220										
KSC1507		300	0.2	40	240	0.01	15			
TIP29	TIP30	40	1	15	75	1	30			
TIP29A	TIP30A	60		15	75	1	30			
TIP29B	TIP30B	80		15	75	1	30			
TIP29C	TIP30C	100		15	75	1	30			
TIP47		250		30	150	0.3	40			
TIP48		300		30	150	0.3	40			
TIP49		350		30	150	0.3	40			
TIP50		400		30	150	0.3	40			
KSC2073	KSA940	150	1.5	40	140	0.5	25			
BD239	BD240	45	2	15		1	30			
BD239A	BD240A	60		15		1	30			
BD239B	BD240B	80		15		1	30			
BD239C	BD240C	100		15		1	30			
KSD401	KS8546	150		40	240	0.4	25			
KSC1173	KSA473	30	3	70	240	0.5	10			
TIP31	TIP32	40		10	50	3	40			
BD241	BD242	45		10		3	40			
KSD288	KSA614	55		40	240	0.5	25			
TIP31A	TIP32A	60		10	50	3	40			
KSD880	KS8834	60		60	200	0.5	30			
KSC1983		60		500		0.5	30			
BD241A	BD242A	60		10		3	40			
TIP31B	TIP32B	80		10	50	3	40			
BD241B	BD242B	80		10		3	40			
TIP31C	TIP32C	100		10	50	3	40			
BD241C	BD242C	100		10		3	40			

* P_c (W) = Collector dissipation

Note: Parts highlighted in red are new since June, 1998 or previously Samsung Power Device Division parts.

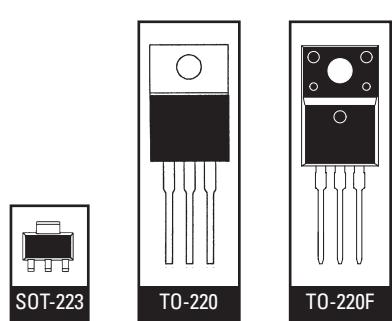


Power Transistors (continued)

Part Number		V_{CEO} (V)	I_C (A)	h_{FE}			P_C^* (W)			
NPN	PNP			Min	Max	I_C (A)				
General Purpose Transistor (cont.)										
TO-220 (cont.)										
D44C8	D45C8	60	4	40	120	0.2	40			
KSC2233		60		30	150	1	40			
KSD526	KSB595	80		40	240	0.5	30			
KSD73		60	5	70	240	1	30			
KSD362		70		20	140	5	40			
KSC2517		100	6	40	200	2	30			
TIP41	TIP42	40		15	75	3	65			
BD243	BD244	45		15		3	65			
BD243A	BD244A	60		15		3	65			
TIP41A	TIP42A	60		15	75	3	65			
BD243B	BD244B	80		15		3	65			
TIP41B	TIP42B	80		15	75	3	65			
BD243C	BD244C	100		15		3	65			
TIP41C	TIP42C	100		15	75	3	65			
KSD363		120		40	240	1	40			
KSD568	KSB707	60	7	40	200	3	40			
KSD569	KSB708	80		40	200	3	40			
KSC2334	KSA1010	100		40	200	3	40			
BU407		150	8				60			
BU407H		150					60			
BU406		200					60			
BU406H		200					60			
BU408		200					60			
BD533	BD534	45	9	30	100	2	50			
D44H8	D45H8	60		60		2	60			
BD535	BD536	60		30	100	2	50			
BD537	BD538	80	10	30	100	2	50			
KSE3055T	KSE2955T	60		20	100	4	75			
MJE3055T	MJE2955T	60	11	20	100	4	75			
KSE44H	KSE45H	80		20		4	50			
	D45H2A	30	12	100		8	60			
TO-220F										
KSC3296	KSA1304	150	3	40	75	0.5	20			
	KSA1614	55		40	240	0.5	20			
KSD1406	KSB1015	60		60	200	0.5	25			
KSD2012	KSB1366	60		100	320	0.5	25			
KSD2058		60		60	300	0.5	25			
KSD1273		60		500	2,500	0.5	40			
KSD1944		60		400	2,000	0.5	30			
KSD1408	KSB1017	80	4	40	240	0.5	25			
KSD1362		70	5	20	140	5	20			
KSD1588	KSB1097	60	7	40	200	3	30			
KSC158		400		20	80	1	40			
SOT-223										
NZT651	NZT751	60	4	75		1	1.2			
NZT44H8	NZT45H8	60	8	60		2	1.5			

★ P_C (W) = Collector dissipation

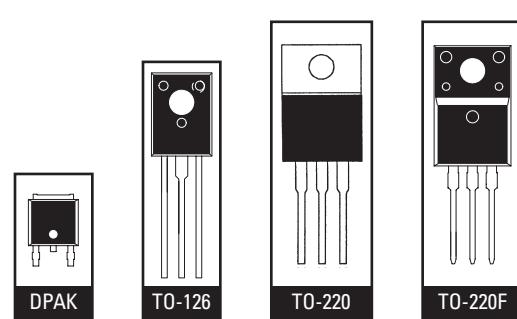
Note: Parts highlighted in red are new since June, 1998 or previously Samsung Power Device Division parts.



Power Transistors (continued)

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	V _{CEO} (V)	I _C (A)	h _{FE}			P _C * (W)			
			Min	Max	I _C (A)				
Darlington Transistor									
TO-126									
KSD985	KSB794	60	1.5	2,000	3,000	1	10		
KSD986	KSB795	80		2,000	3,000	1	10		
KSD1692	KSB1149	100		2,000	20,000	1.5	15		
KSE800	KSE700	60		750		1.5	40		
MJE800	MJE700	60		750		1.5	40		
KSE801	KSE701	60		750		2	40		
MJE801	MJE701	60		750		2	40		
KSE802	KSE702	80		750		1.5	40		
MJE802	MJE702	80		750		1.5	40		
KSE803	KSE703	80		750		2	40		
MJE803	MJE703	80		750		2	40		
DPAK									
KSH112	KSH117	100	2	1,000	12,000	2	20		
MJD112	MJD117	100		1,000	12,000	2	20		
KSD1222	KSB907	40	3	2,000		1	15		
MJD1222	MJD907	40		2,000		1	15		
KSH122	KSH127	100	8	1,000	12,000	4	20		
MJD122	MJD127	100		1,000	12,000	4	20		
TO-220									
TIP110	TIP115	60	2	500		2	50		
TIP111	TIP116	80		500		2	50		
TIP112	TIP117	100		500		2	50		
KSD5018		275	4				40		
TIP120	TIP125	60		1,000		3	65		
TIP121	TIP126	80		1,000		3	65		
TIP122	TIP127	100		1,000		3	65		
KSD560	KSB601	100		2,000	15,000	3	30		
BDW23	BDW24	45	6	750	20,000	2	50		
BDW23A	BDW24A	60		750	20,000	2	50		
BDW23B	BDW24B	80		750	20,000	2	50		
BDW23C	BDW24C	100		750	20,000	2	50		
BDX53	BDX54	45	8	750		3	60		
BDX53A	BDX54A	60		750		3	60		
TIP100	TIP105	60		1,000	20,000	3	80		
BDX53B	BDX54B	80		750		3	60		
TIP101	TIP106	80		1,000	20,000	3	80		
BDX53C	BDX54C	100		750		3	60		
TIP102	TIP107	100		1,000	20,000	3	80		
BU807		150					60		
BU806		200					60		
BDX33	BDX34	45	10	750		4	70		
BDX33A	BDX34A	60		750		4	70		
BDX33B	BDX34B	80		750		3	70		
TIP141T	TIP146T	80		1,000		5	80		
BDX33C	BDX34C	100		750		3	70		
TIP142T	TIP147T	100	12	1,000		5	80		
BDW93	BDW94	45		750	20,000	5	80		
BDW93A	BDW94A	60		750	20,000	5	80		
BDW93B	BDW94B	80		750	20,000	5	80		
BDW93C	BDW94C	100		750	20,000	5	80		
TO-220F									
KSD1413	KSB1023	40	3	2,000		1	20		
KSD1589	KSB1098	100	5	2,000	15,000	3	20		
KSD1417	KSB1022	60	7	2,000	15,000	3	30		



* P_C (W) = Collector dissipation

Power Transistors (continued)

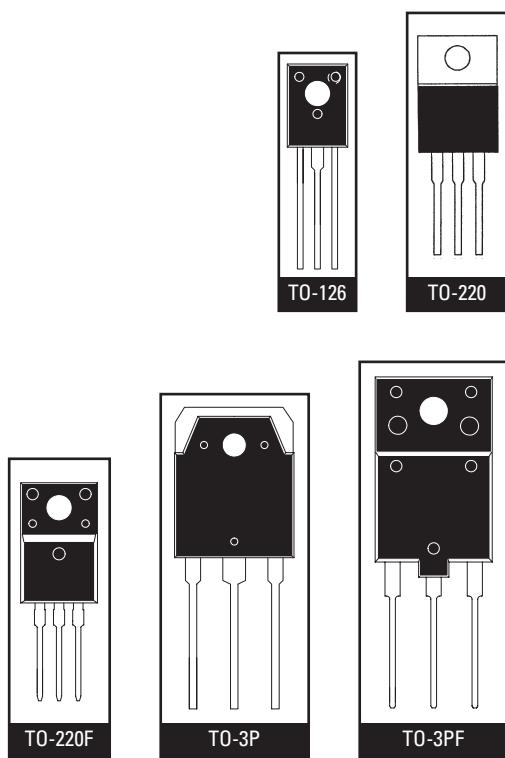
Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number		V_{CEO} (V)	I_C (A)	h_{FE}			P_C^* (W)	Package				
NPN	PNP			Min	Max	I_C (A)						
Darlington Transistor (cont.)												
TO-3P & TO-3PF												
TIP140F	TIP145F	60	10	1,000		5	60	TO-3P(F)				
TIP140	TIP145	60		1,000		5	125	TO-3P				
TIP141F	TIP146F	80		1,000		5	60	TO-3P(F)				
TIP141	TIP146	80		1,000		5	125	TO-3P				
TIP142F	TIP147F	100		1,000		5	60	TO-3P(F)				
TIP142	TIP147	100		1,000		5	125	TO-3P				
KSC5047		50	15	80		5	100	TO-3P				

Part Number		V_{CEO} (V)	I_C (A)	h_{FE}			P_C^* (W)	Package				
NPN	PNP			Min	Max	I_C (A)						
Switching Transistor												
TO-126, TO-220 & TO-3P												
KSE13004		4	300	8	40	2	75	TO-220				
MJE13004		4		8	40	2	75	TO-220				
KSE13006		8		5	30	5	80	TO-220				
MJE13006		8		5	30	5	80	TO-220				
KSE13008		12		6	30	8	100	TO-220				
MJE13008		12		6	30	8	100	TO-220				
KSA1156(PNP)		0.5	400	30	200	0.1	10	TO-126				
KSC2752		0.5		20	80	0.05	10	TO-126				
FTP2333		2		20	80	0.1	15	TO-220				
KSE13005		4		10	60	1	75	TO-220				
MJE13005		4		10	60	1	75	TO-220				
KSC2518		5		20	80	0.5	40	TO-220				
KSC5039		5		10		0.3	70	TO-220				
KSC2335		7		20	80	1	40	TO-220				
KSE13007		8		8	60	2	80	TO-220				
MJE13007		8		8	60	2	80	TO-220				
KSE13009		12		8	40	5	100	TO-220				
MJE13009		12		8	40	5	100	TO-220				
KSC2751		15	450	15	80	2	120	TO-3P				
KSC5338		5		15	30	0.5	100	TO-220				
KSC5020		3		15	50	0.3	40	TO-220				
KSC5021		5		15	50	0.6	50	TO-220				
KSC5321				15	40	0.6	100	TO-220				
KSC5024		10	500	15	50	0.8	90	TO-3P				
KSC5025		15		15	50	1.2	100	TO-3P				
KSC5026		1.5		10	40	0.1	40	TO-220				
KSC5027		3		10	40	0.2	50	TO-220				
KSC5029		4.5		10	40	0.3	90	TO-3P				
KSC5030		6	800	10	40	0.4	100	TO-3P				
KSC3552		12		10	40	0.8	150	TO-3P				

Part Number		V_{CEO} (V)	I_C (A)	h_{FE}			P_C^* (W)	Package				
NPN	PNP			Min	Max	I_C (A)						
TO-220F & TO-3PF												
TO-220F & TO-3PF												
KSE13005F		4	400	10	60	1	30	TO-220F				
MJE13005F		4		10	60	1	30	TO-220F				
KSC5039F		5		10		0.3	30	TO-220F				
KSC2335F		7		20	80	1	40	TO-220F				
KSE13007F		8		8	60	2	40	TO-220F				
MJE13007F		8		8	60	2	40	TO-220F				
KSE13009F		12	500	8	40	5	50	TO-220F				
MJE13009F		12		8	40	5	50	TO-220F				
KSC5338F		5		15	30	0.5	40	TO-220F				
KSC5021F		5		15	50	0.6	40	TO-220F				
KSC5321F		5		15	40	0.6	40	TO-220F				
KSC5027F		3	800	10	40	0.2	40	TO-220F				
KSC5030F		6		10	40	0.4	60	TO-3PF				

* P_C (W) = Collector dissipation



Power Transistors (continued)

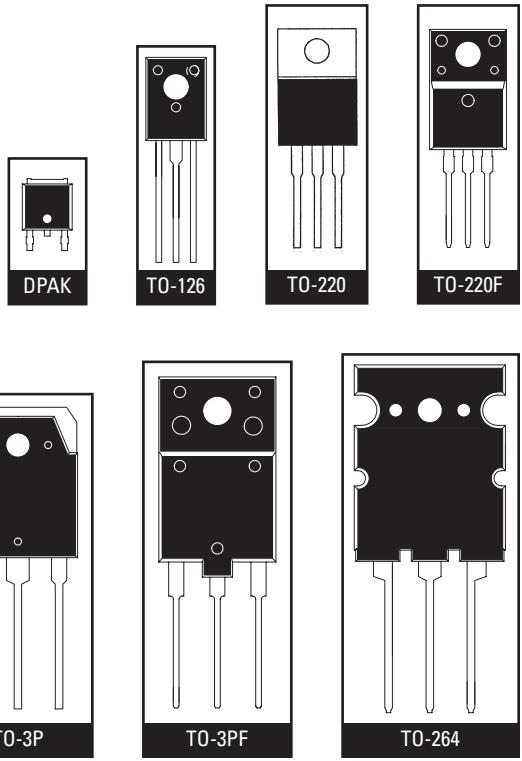
Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number NPN	V _{CBO} (V)	V _{CEO} (V)	I _C (A)	h _{FE}			P _C * (W)				
				Min	Max	I _C (A)					
Horizontal Deflection Output Transistor											
TO-3PF											
KSD5701 ^①	1500	800	3.5	8		0.5	50				
KSD5702 ^①			6	10	30	1	60				
KSD5707			6	10	30	1	60				
KSD5703 ^①			10	8		1	70				
KSC5803C			12	20	40	1	70				
KSC5801D ^①			8	10	30	1	50				
KSC5802			10	20	40	1	60				
KSC5802D ^①			10	20	40	1	60				
KSC5803			12	20	40	1	70				

Part Number NPN	V _{CBO} (V)	V _{CEO} (V)	I _C (A)	h _{FE}			P _C * (W)				
				Min	Max	I _C (A)					
Dynamic Focus Transistor											
TO-126											
KSC5042M	1500	900	0.1	30		0.01	4				
TO-220											
KSC5042	1500	900	0.1	30		0.01	10				
TO-220F											
KSC5042F	1500	900	0.1	30		0.01	6				

Part Number NPN	V _{CEO} (V)	I _C (A)	h _{FE}			P _C * (W)			
			Min	Max	I _C (A)				
Audio & Car Booster Output Transistor									
TO-3P									
KSC4010	KSA3010	120	10	55	160	1	80		
KSD1047	KSB817	140	12	60	200	1	100		
KSC4468	KSA1695		12	60	200	1	100		
KSC5242	KSA1962	230	15	55	160	1	130		
TO-264									
KSC5200	KSA1943	230	15	55	160	1	150		

Part Number NPN	V _{CEO} (V)	I _C (A)	h _{FE}			P _C * (W)	Package				
			Min	Max	I _C (A)						
Anti-Saturation Network Function Transistor for Ballast System											
TO-220, TO-126, DPAK											
KSC5302DM	400	2	20		0.4	25	TO-126				
KSC5302D		2	20		0.4	50	TO-220				
KSC5305D	450	5	22		0.8	75	TO-220				
KSC5402D		2	14		0.4	50	DPAK				
KSC5402DT		2	14		0.4	50	TO-220				
KSC5338D	600	5	6		2	75	TO-220				
KSC5502D		2	15	30	0.2	50	DPAK				
KSC5504DT		4	15	30	0.5	75	TO-220				



* P_C (W) = Collector dissipation
^① Built in Damper Diode.

Small Signal Transistors (Surface-Mount)

Part Number	BV (V) Min	NF (dB) Max	Hfe @ Ic			Package			
			Min	Max	mA				
Low Noise Amplifiers/Low Power, Bipolar Junction Transistors									
NPN									
MMBT2484	60	3	250		1	SOT-23			
KST2484	60	3	250		1	SOT-23			
MMBT5962	45	3	600	1400	10	SOT-23			
MMBT18	45	1.5	500	1500	10	SOT-23			
MMBT5088	30	3	300	900	0.1	SOT-23			
KST5088	30	3	300	900	0.1	SOT-23			
MMBT5089	25	2	400	1200	0.1	SOT-23			
KST5089	25	2	400	1200	0.1	SOT-23			
PNP									
MMBT5086	50	3	150	500	0.1	SOT-23			
KST5086	50	3	150	500	0.1	SOT-23			
MMBT5087	50	2	250	800	0.1	SOT-23			
KST5087	50	2	250	800	0.1	SOT-23			
High Speed Saturated Switches/Low Power, Bipolar Junction Transistors									
Part Number	BV (V) Min	t _{on} (ns) Max	t _{off} (ns) @ Ic		Package				
			Max	mA					
NPN									
MMBT2369	15	12	18	10	SOT-23				
MMBT2369A	15	12	18	10	SOT-23				
PNP									
MMBT4209	15	15	20	10	SOT-23				
MMBT5771	15	15	20	10	SOT-23				
MMBT3640	12	60	75	10	SOT-23				
MMBT4258	12	15	20	10	SOT-23				
RF, VHF, UHF Amplifiers/Low Power, Bipolar Junction Transistors									
Part Number	BV (V) Min	f _T (MHz) Min	Hfe @ Ic			Package			
			Min	Max	mA				
NPN									
MMBTH34	45	500	40		7	SOT-23			
MMBTH10RG	40	450	50	120	1	SOT-23			
MMBTH24	30	400	30		8	SOT-23			
KST24	30	400	30		8	SOT-23			
KSC2755	30	400	60	240	3	SOT-23			
KSC2751	30	100	40	240	2	SOT-23			
MMBTH10	25	650	60		4	SOT-23			
KST10	25	650	60		4	SOT-23			
MMBTH11	25	650	60		4	SOT-23			
KSC2758	25	750	60	240	3	SOT-23			
KSC2756	20	500	60	240	5	SOT-23			
KSC2223	20	400	40	180	1	SOT-23			
MMBT5770	15	900	50	200	8	SOT-23			
MMBT918	15	600	20		3	SOT-23			
KSC3120	15	1500	40	200	5	SOT-23			
KSC2757	15	800	60	240	5	SOT-23			
KSC2759	14	1250	40	180	5	SOT-23			
MMBT5179	12	900	25	250	3	SOT-23			
KSC5179	12	200	25	250	3	SOT-23			
KSC2734	12	1400	20	200	5	SOT-23			
PNP									
MMBTH81	20	600	60		5	SOT-23			

Note: Parts highlighted in red are new since June, 1998

or previously Samsung Power Device Division parts.

Part Number	BV (V) Min	I _C (mA) Max	Hfe @ Ic			Package			
			Min	Max	mA				
General Purpose Amplifiers and Switches									
NPN									
KSC2882	80	400	70	240	50	SOT-89			
KSC2883	30	1500	100	320	500	SOT-89			
KSC2884	30	800	100	320	100	SOT-89			
KSC2982	20(MAX)	2000	140	600	50	SOT-89			
KSC1621	25(MAX)	2000	100	560	100	SOT-89			
MMBTA06	80	500	100		10	SOT-23			
KST06	80	500	50		100	SOT-23			
BC846A	65	100	110	220	2	SOT-23			
BC846B	65	100	200	450	2	SOT-23			
BCV71	60	500	110	220	2	SOT-23			
MMBTA05	60	500	100		10	SOT-23			
KST05	60	500	50		100	SOT-23			
MMBT3416	50	500	75	225	2	SOT-23			
MMBT5210	50	500	200	600	0.1	SOT-23			
MMBT6428	50	500	250	650	0.1	SOT-23			
KST6428	50	200	250	650	0.1	SOT-23			
BC847	45	100	110	800	2	SOT-23			
BC847A	45	100	110	220	2	SOT-23			
BC847B	45	100	200	450	2	SOT-23			
BC847C	45	100	420	800	2	SOT-23			
BC850B	45	100	200	450	2	SOT-23			
BC850C	45	100	420	800	2	SOT-23			
BCW71	45	100	110	220	2	SOT-23			
BCX70G	45	200	120	220	2	SOT-23			
BCX70H	45	200	180	310	2	SOT-23			
BCX70J	45	200	250	460	2	SOT-23			
MMBT100	45	500	100	450	10	SOT-23			
MMBT100A	45	500	300	600	10	SOT-23			
BSR14	40	500	100	300	150	SOT-23			
BSR17A	40	200	100	300	10	SOT-23			
BSS79C	40	500	100	300	150	SOT-23			
MMBT222A	40	500	100	300	150	SOT-23			
MMBT3904	40	200	100	300	10	SOT-23			
KST3904	40	200	100	300	10	SOT-23			
MMBT4400	40	500	50	150	150	SOT-23			
MMBT4401	40	500	100	300	150	SOT-23			
KST4401	40	500	100	300	150	SOT-23			
KST1623L3	40	100	60	120	1	SOT-23			
KST1623L4	40	100	90	180	1	SOT-23			
KST1623L5	40	100	135	270	1	SOT-23			
KST1623L6	40	100	200	400	1	SOT-23			
KST1623L7	40	100	300	600	1	SOT-23			
KST20	40	100	40	400	5	SOT-23			
BCW33	32	100	420	800	2	SOT-23			
BCW31	20	100	110	220	2	SOT-23			
BCW32	32	500	200	450	2	SOT-23			
BCW65C	32	500	250	630	100	SOT-23			
BCW60A	32	100	120	220	2	SOT-23			
BSR13	30	500	100	300	150	SOT-23			
BC848A	30	100	110	220	2	SOT-23			
BC848B	30	100	200	450	2	SOT-23			
BC849C	30	100	420	800	2	SOT-23			
MMBT2222	30	500	100	300	150	SOT-23			
KST2222	30	500	100	300	150	SOT-23			
KST2859	30	500	70	240	100	SOT-23			
MMBT4124	25	200	120	360	2	SOT-23			
KST4124	25	200	120	360	2	SOT-23			



Small Signal Transistors (Surface-Mount, continued)

Part Number	BV (V) Min	I _C (mA) Max	Hfe @ I _c			Package			
			Min	Max	mA				
General Purpose Amplifiers and Switches (cont.)									
NPN (cont.)									
MMBT6515	25	500	250	500	2	SOT-23			
KST3265C	25	800	100	320	100	SOT-23			
KST1009F1	25	50	30	60	0.5	SOT-23			
KST1009F2	25	50	40	80	0.5	SOT-23			
KST1009F3	25	50	60	120	0.5	SOT-23			
KST1009F4	25	50	90	180	0.5	SOT-23			
KST1009F5	25	50	135	270	0.5	SOT-23			
PZT2222A	40	600	100	300	150	SOT-223			
PZT3904	40	200	100	300	10	SOT-223			
PNP									
KSA1202	80	400	70	240	50	SOT-89			
KSA1203	30	1500	100	320	500	SOT-89			
KSA1204	30	800	100	320	100	SOT-89			
KSB798	25	1000	90	400	100	SOT-89			
KSB1121	25	2000	100	560	100	SOT-89			
MMBTA56	80	500	100		10	SOT-23			
KST56	80	500	50	450	10	SOT-23			
BC856B	65	100	200	450	2	SOT-23			
BSR16	60	500	100	300	150	SOT-23			
MMBTA55	60	500	100		10	SOT-23			
KST55	60	500	50		10	SOT-23			
BCW89	60	500	120	260	2	SOT-23			
MMBT2907A	60	600	100	300	150	SOT-23			
KST2907A	60	600	100	300	10	SOT-23			
KSA812	50	100	90	600	1	SOT-23			
BC857A	45	100	125	250	2	SOT-23			
BC857B	45	100	220	475	2	SOT-23			
BC857C	45	100	420	800	2	SOT-23			
BC860C	45	100	420	800	2	SOT-23			
BCW68G	45	500	160	400	100	SOT-23			
BCW69	45	500	120	260	2	SOT-23			
BCX71G	45	100	120	220	2	SOT-23			
BCX71J	45	100	250	460	2	SOT-23			
BCX71K	45	100	380	630	2	SOT-23			
MMBT200	45	500	100	450	10	SOT-23			
MMBT200A	45	500	300	600	10	SOT-23			
BSR15	40	500	100	300	150	SOT-23			
BSR18A	40	500	100	300	10	SOT-23			
BSR18B	40	500	110	220	10	SOT-23			
MMBT2907	40	600	100	300	150	SOT-23			
KST2907	40	600	100	300	150	SOT-23			
MMBT3906	40	200	100	300	10	SOT-23			
KST3906	40	200	100	300	10	SOT-23			
MMBT4403	40	600	100	300	150	SOT-23			
KST4403	40	600	100	300	150	SOT-23			
KST812M4	40	100	90	180	1	SOT-23			
KST812M5	40	100	135	270	1	SOT-23			
KST812M6	40	100	200	400	1	SOT-23			
KST812M7	40	100	300	600	1	SOT-23			
KST770	40	100	40	400	5	SOT-23			
BCW30	32	500	215	500	2	SOT-23			
BCW61A	32	100	120	220	2	SOT-23			
BCW61B	32	100	180	310	2	SOT-23			
BCW61C	32	100	250	460	2	SOT-23			
BCW61D	32	100	380	630	2	SOT-23			
BC858A	30	100	110	220	2	SOT-23			
BC858B	30	100	200	450	2	SOT-23			
BC858C	30	100	420	800	2	SOT-23			
BC859A	30	100	110	220	2	SOT-23			
BC859B	30	100	200	450	2	SOT-23			
BC859C	30	100	420	800	2	SOT-23			

Note: Parts highlighted in red are new since June, 1998 or previously Samsung Power Device Division parts.

Part Number	BV (V) Min	I _C (mA) Max	Hfe @ I _c			Package			
			Min	Max	mA				
General Purpose Amplifiers and Switches (cont.)									
NPN (cont.)									
KSA1182	30	500	70	240	100	SOT-23			
KST4125	30	200	50	150	2	SOT-23			
MMBT3702	25	500	60	300	50	SOT-23			
MMBT4126	25	500	120	360	2	SOT-23			
KST4126	25	500	120	360	2	SOT-23			
KSA1298	25	800	100	320	100	SOT-23			
BCW29	20	100	120	260	2	SOT-23			
PZT2907A	60	600	100	300	150	SOT-223			
PZT3906	40	200	100	300	10	SOT-223			
FSB6726	30	1500	50	250	1000	SSOT-3			

Part Number	BV (V) Min	I _C (mA) Max	Hfe @ I _c			Package			
			Min	Max	mA				
Medium and Power Transistors									
NPN									
BC817-25	45	800	160	400	100	SOT-23			
BC817-40	45	800	250	630	100	SOT-23			
BCX19	45	1000	100	600	100	SOT-23			
NZT6717	80	1200	50	250	250	SOT-223			
BCP54	45	1500	40	250	150	SOT-223			
NZT6715	40	1500	50	250	1,000	SOT-223			
NZT6714	30	2000	50	250	1,000	SOT-223			
PNP									
MMBT4356	80	800	50	250	10	SOT-23			
MMBT4355	60	800	100	400	10	SOT-23			
BC807-16	45	800	100	250	100	SOT-23			
BC807-25	45	800	160	400	100	SOT-23			
BC807-40	45	800	250	630	100	SOT-23			
BCX17	45	1500	100	600	100	SOT-23			
BCX18	25	500	100	600	100	SOT-23			
NZT6729	80	1000	50	250	250	SOT-223			
NZT6728	60	1200	50	250	250	SOT-223			
NZT6726	30	1500	50	250	1,000	SOT-223			

Part Number	BV (V) Min	I _C (mA) Max	Hfe @ I _c			Package			
			Min	Max	mA				
High Voltage Medium and Power Transistors									
NPN									
MMBT442	300	200	40		10	SOT-23			
KST42	300	500	40		10	SOT-23			
MMBT443	200	200	40		10	SOT-23			
KST43	200	500	40		10	SOT-23			
MMBT5551	160	200	80	250	10	SOT-23			
KST5551	160	600	80	250	10	SOT-23			
KSC2880	150	50	70	240	10	SOT-89			
KSC2881	120	800	80	240	100	SOT-89			
PZT42	300	500	40		10	SOT-223			



Small Signal Transistors (Surface-Mount, continued)

Part Number	BV (V) Min	I _C (mA) Max	Hfe @ I _c			Package			
			Min	Max	mA				
High Voltage Medium and Power Transistors (cont.)									
PNP									
MMBTA92	300	200	40		10	SOT-23			
KST92	300	500	40		10	SOT-23			
MMBTA93	200	200	40		10	SOT-23			
KST93	200	500	40		10	SOT-23			
MMBT5401	150	200	60	240	10	SOT-23			
KST5401	150	500	60	240	10	SOT-23			
KSA1200	150	50	70	240	10	SOT-89			
KSA1201	120	800	80	240	100	SOT-89			
PZTA92	300	500	40		10	SOT-223			

Part Number	BV (V) Min	I _c (A) Max	Hfe @ I _c			Package			
			Min	Max	mA				
Darlingtons									
NPN									
MMBT6427	40	1.2	20,000	200,000	100	SOT-23			
MMBTA14	30	1.2	20,000		100	SOT-23			
MMBTA13	30	1.2	10,000		100	SOT-23			
NZT7053	100	1.5	10,000		100	SOT-223			
PZTA14	30	1.0	10,000		10	SOT-223			
PNP									
BCV26	30	1.2	10,000		10	SOT-23			
MMBTA64	30	1.2	10,000		10	SOT-23			
KST63	30	0.3	10,000		100	SOT-23			
PZTA64	30	1.2	10,000		10	SOT-223			

Part Number	R1 KO	R1 KO	V _{CEO} (V)	I _C (A)	h _{FE}			Condition	Min	Max	Saturation Voltage			f _T (MHz) Typ							
					V _{CE} (V)	I _C (mA)	Condition				I _C (mA)	I _B (mA)	V _{CE(sat)} Max	V _{BE(sat)} Max							
Digital Transistors (SOT-23)																					
NPN																					
KSR1101	4.7	4.7	50	0.1	5	10	20		10	0.5	0.1	0.3	250/200								
KSR1102	10	10	50	0.1	5	4	30		10	0.5	0.1	0.3	250/200								
KSR1103	22	22	50	0.1	5	5	56		10	0.5	0.1	0.3	250/200								
KSR1104	47	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								
KSR1105	4.7	10	50	0.1	5	5	30		10	0.5	0.1	0.3	250/200								
KSR1106	10	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								
KSR1107	22	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								
KSR1108	47	22	50	0.1	5	5	56		10	0.5	0.1	0.3	250/200								
KSR1109	4.7		40	0.1	5	5	100	600	10	1	0.1	0.3	250/200								
KSR1110	10		40	0.1	5	1	100	600	10	1	0.1	0.3	250/200								
KSR1111	22		40	0.1	5	1	100	600	10	1	0.1	0.3	250/200								
KSR1112	47		40	0.1	5	1	100	600	10	1	0.1	0.3	250/200								
KSR1113	2.2	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								
KSR1114	4.7	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								
PNP																					
KSR2101	4.7	4.7	50	0.1	5	10	20		10	0.5	0.1	0.3	250/200								
KSR2102	10	10	50	0.1	5	4	30		10	0.5	0.1	0.3	250/200								
KSR2103	22	22	50	0.1	5	5	56		10	0.5	0.1	0.3	250/200								
KSR2104	47	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								
KSR2105	4.7	10	50	0.1	5	5	30		10	0.5	0.1	0.3	250/200								
KSR2106	10	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								
KSR2107	22	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								
KSR2108	47	22	50	0.1	5	5	56		10	0.5	0.1	0.3	250/200								
KSR2109	4.7		40	0.1	5	5	100	600	10	1	0.1	0.3	250/200								
KSR2110	10		40	0.1	5	1	100	600	10	1	0.1	0.3	250/200								
KSR2111	22		40	0.1	5	1	100	600	10	1	0.1	0.3	250/200								
KSR2112	47		40	0.1	5	1	100	600	10	1	0.1	0.3	250/200								
KSR2113	2.2	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								
KSR2114	4.7	47	50	0.1	5	5	68		10	0.5	0.1	0.3	250/200								

Note: Parts highlighted in red were previously Samsung Power Device Division parts.



Small Signal Transistors (Through-Hole)

Part Number	BV (V) Min	NF (dB) Max	Hfe @ Ic			Package			
			Min	Max	mA				
Low Noise Amplifiers									
NPN									
PN2484	60	3	100	500	0.01	TO-92			
2N5961	60	3	150	700	10	TO-92			
KSC945	50	4	40	700	1	TO-92			
KSC1815	50	1	70	700	2	TO-92			
2N6428A	50	2	250	650	0.1	TO-92			
2N5209	50	2	100	300	0.1	TO-92			
2N5962	45	3	600	1,400	10	TO-92			
MPSA18	45	1.5	500	1,500	10	TO-92			
KSC122	45	① 4	120	1000	0.5	TO-92			
2N5088	30	3	300	900	0.1	TO-92			
2N5089	25	2	400	1,200	0.1	TO-92			
KSP6520	25	3	200	400	2	TO-92			
KSP6521	25	3	300	600	2	TO-92			
KSC900	25	① 50	120	1000	0.5	TO-92			
KSC2785	50	4(Typ)	70	700	1	TO-92S			
PNP									
2N5086	50	3	150	500	0.1	TO-92			
2N5087	50	2	250	800	0.1	TO-92			
KSA733	50	20	40	700	1	TO-92			
KSA1015	50	6	70	700	2	TO-92			
KSA640	40	2	250	700	0.1	TO-92			
KSA1175	50	20	40	700	1	TO-92S			

Part Number	BV (V) Min	t _{on} (ns) Max	t _{off} (ns) @ Ic		Package			
			Max	mA				
High Speed Saturated Switches								
NPN								
PN2369A	15	12	18	10	TO-92			
PN4275	15	12	12	10	TO-92			
PN5134	10	18	18	10	TO-92			
PNP								
2N5771	15	15	20	10	TO-92			
PN3640	12	60	75	10	TO-92			
PN4258	12	15	20	10	TO-92			

Part Number	BV (V) Min	f _T (MHz) Min	Hfe @ Ic			Package			
			Min	Max	mA				
RF, VHF, UHF Amplifiers									
NPN									
KSC838	30	100	40	240	2	TO-92			
KSC1070 ②	25	750	40	200	3	TO-92			
KSC388	25	300	20	200	12.5	TO-92			
SS9016	20	400	28	198	1	TO-92			
KSC1187	20	400	40	240	2	TO-92			
KSC1188	20	400	40	240	2	TO-92			
KSC1674	20	400	40	240	1	TO-92			
KSC1675	30	150	40	240	1	TO-92			
2N5770	15	900	50	240	8	TO-92			
PN918	15	600	20		3	TO-92			
SS9018	15	700	28	198	1	TO-92			
KSC1395	15	600	40	240	5	TO-92			
MPS5179	12	900	25	250	3	TO-92			
KSP5179	12	900	25	250	3	TO-92			

Part Number	BV (V) Min	f _T (MHz) Min	Hfe @ Ic			Package			
			Min	Max	mA				
RF, VHF, UHF Amplifiers (cont.)									
NPN (cont.)									
KSC1730	15	800	40	240	5	TO-92 (94)			
MPSH34	40	500	40		7	TO-92 (96)			
KSC1393	30	400	40	180	2	TO-92 (96)			
KSC1394	30	400	40	180	2	TO-92 (96)			
MPSH24	30	400	30		8	TO-92 (96)			
KSP24	30	400	30		8	TO-92 (96)			
MPSH10	25	650	60		4	TO-92 (96)			
KSP10	25	650	60		4	TO-92 (96)			
MPSH11	25	650	60		4	TO-92 (96)			
KSP11	25	650	60		4	TO-92 (96)			
KSC2669	30	100	40	240	2	TO-92S			
KSC2787	30	150	40	240	1	TO-92S			
KSC2786	20	400	40	240	1	TO-92S			
PNP									
MPSH81	20	600	60		5	TO-92			

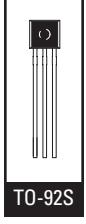
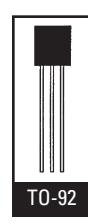
Part Number	BV (V) Min	I _C (mA) Max	Hfe @ Ic			Package			
			Min	Max	mA				
General Purpose Amplifiers and Switches									
NPN									
MPSA06	80	500	100		100	TO-92			
KSP06	80	500	50		100	TO-92			
MPS8099	80	500	100	300	1	TO-92			
KSP8099	80	500	100	300	1	TO-92			
KSR2003	80	300	56		5	TO-92			
MPS8098	60	500	100	300	1	TO-92			
KSP8098	60	500	100	300	1	TO-92			
MPSA05	60	500	100		100	TO-92			
KSP05	60	500	50		100	TO-92			
KSD1616A	60	1000	135	300	1	TO-92			
KSC1008	60	700	40	300	1	TO-92			
KSC2002	60	300	90	400	50	TO-92			
KSC853	60	200	40	400	50	TO-92			
2N5210	50	50	200	600	0.1	TO-92			
KSD1616	50	1000	135	600	100	TO-92			
PN100	45	500	100	450	10	TO-92			
PN100A	45	500	300	600	10	TO-92			
KSC1072	45	700	40	240	50	TO-92			
KSC815	45	300	40	240	0.05	TO-92			
SS9014	45	100	60	1000	1	TO-92			
2N3904	40	200	100	300	10	TO-92			
2N4401	40	600	100	360	150	TO-92			
MPS6531	40	500	90	270	100	TO-92			
KSP20	30	400	25		4	TO-92			
PN2222A	40	500	100	300	150	TO-92			
PN3569	40	500	100	300	150	TO-92			
KSP6602	40	1000	50		500	TO-92			
MPS6513	30	200	90	180	2	TO-92			

① Noise level

② Disk type transistor

Note: Parts highlighted in red are new since June, 1998 or previously Samsung Power Device Division parts.

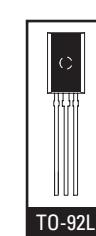
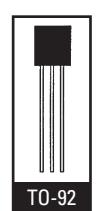
TO-92(96): TO-92 Plastic: B E C



Small Signal Transistors (Through-Hole, continued)

Part Number	BV (V) Min	I _C (mA) Max	Hfe @ I _c			Package			
			Min	Max	mA				
General Purpose Amplifiers and Switches (cont.)									
NPN (cont.)									
PN2222	30	500	100	300	150	TO-92			
KSP222	30	500	100	300	150	TO-92			
PN3566	30	500	150	600	10	TO-92			
PN3643	30	500	100	300	150	TO-92			
PN4141	30	500	100	300	150	TO-92			
KSC921	30	100	40	240	2	TO-92			
KSC839	30	100	40	400	2	TO-92			
SS9011	30	30	28	198	1	TO-92			
2N4124	25	200	120	360	0.2	TO-92			
2N3415	25	500	180	540	2	TO-92			
MPS6514	25	200	150	300	2	TO-92			
MPS6515	25	200	250	500	2	TO-92			
SS8050	25	1500	85	300	100	TO-92			
KSD227	25	300	70	400	50	TO-92			
KSP5172	25	100	100	500	10	TO-92			
KSC184	25	50	40	1000	1	TO-92			
KSD261	20	500	40	400	100	TO-92			
SS9013	20	500	64	202	50	TO-92			
KSD5041	20	5000	180	600	500	TO-92			
KSC5019	10	2000	140	600	500	TO-92			
BC182L	50	500	80		100	TO-92 (94)			
BC182LA	50	500	80		100	TO-92 (94)			
BC182LB	50	500	80		100	TO-92 (94)			
2N3704	30	500	100	300	50	TO-92 (94)			
2N3391A	25	500	250	500	2	TO-92 (94)			
2N3390	25	500	400	800	2	TO-92 (94)			
2N3392	25	500	150	300	2	TO-92 (94)			
2N5172	25	500	100	500	10	TO-92 (94)			
BC547A	45	100	110	220	2	TO-92 (97)			
BC547B	45	500	200	450	2	TO-92 (97)			
BC547C	45	500	420	800	2	TO-92 (97)			
KSC2331	60	700	40	240	50	TO-92L			
KSC2328A	30	2000	100	320	500	TO-92L			
KSC2500	10	2000	140	600	500	TO-92L			
KSD1021	30	1000	70	400	100	TO-92S			
KSC3488	25	300	70	400	50	TO-92S			
KSD1020	25	700	70	400	100	TO-92S			
KSC2701	20	500	40	400	100	TO-92S			
PNP									
MPSA56	80	500	100		10	TO-92			
KSP56	80	500	50		10	TO-92			
KSP8599	80	300	100	300	1	TO-92			
PN2907A	60	500	100	300	150	TO-92			
PN4249	60	500	100	300	0.1	TO-92			
MPSA55	60	500	100		10	TO-92			
KSP55	60	500	50		10	TO-92			
PN4250A	60	500	250	800	1	TO-92			
KSBI116A	60	1000	135	400	100	TO-92			
KSA708	60	700	40	240	50	TO-92			
KSA953	60	300	90	400	50	TO-92			
KSA545	60	200	40	400	50	TO-92			
KSP8598	60	500	100	300	1	TO-92			
PN200	45	500	100	350	150	TO-92			
PN200A	45	500	300	600	10	TO-92			
PN3644	45	500	100	300	150	TO-92			

Part Number	BV (V) Min	I _C (mA) Max	Hfe @ I _c			Package			
			Min	Max	mA				
General Purpose Amplifiers and Switches (cont.)									
PNP (cont.)									
KSA539	45	200	40	240	50	TO-92			
SS9015	45	100	60	600	1	TO-92			
2N3906	40	200	100	300	10	TO-92			
2N4403	40	600	100	300	150	TO-92			
MPS6518	40	200	150	300	2	TO-92			
MPS6534	40	500	90	270	100	TO-92			
PN2907	40	500	100	300	150	TO-92			
PN4122	40	200	150	300	10	TO-92			
PN4143	40	500	100	300	150	TO-92			
KSP70	40	100	40	400	5	TO-92			
PN4917	30	200	150	300	10	TO-92			
2N4126	25	200	120	360	2	TO-92			
MPS3702	25	500	60	300	50	TO-92			
MPS6523	25	500	300	600	2	TO-92			
SS8550	25	1500	85	300	100	TO-92			
KSB564A	25	1000	70	400	100	TO-92			
KSA642	25	300	70	400	50	TO-92			
KSA542	25	50	40	400	1	TO-92			
KSA643	20	500	40	400	100	TO-92			
SS9012	20	500	64	202	50	TO-92			
KSA733	50	150	40	700	1	TO-92			
KSA954	80	300	90	400	50	TO-92 (94)			
BC212L	50	500	60	300	2	TO-92 (94)			
BC212LB	50	500	200	400	2	TO-92 (94)			
2N5366	40	500	100	300	50	TO-92 (94)			
BC213L	30	500	80	400	2	TO-92 (94)			
BC214L	30	500	140	400	2	TO-92 (94)			
BC214LB	30	500	200	400	2	TO-92 (94)			
BC214LC	30	500	350	600	2	TO-92 (94)			
2N3702	25	500	60	300	50	TO-92 (94)			
2N6076	25	500	100	500	10	TO-92 (94)			
KSA931	60	700	40	240	50	TO-92L			
KSA928A	30	2000	100	320	500	TO-92L			
KSA1378	25	300	70	400	50	TO-92S			
KSB810	25	700	70	400	100	TO-92S			
KSB811	25	1000	70	400	100	TO-92S			
KSA1150	20	500	40	400	100	TO-92S			



Note: Parts highlighted in red are new since June, 1998 or previously Samsung Power Device Division parts.

TO-92(94): TO-92 Plastic: E C B

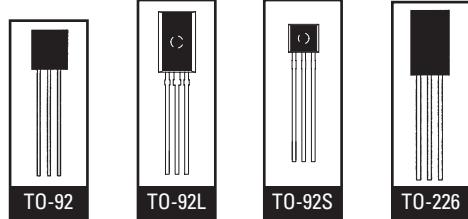
(97): TO-92 Plastic: C B E

Small Signal Transistors (Through-Hole, continued)

Part Number	BV (V) Min	I _C (A) Max	Hfe @ I _c			Package			
			Min	Max	mA				
Medium Power Transistors									
NPN									
SS8050	25	1.0	80	300	100	TO-92			
BC639	80	1.0	40	250	150	TO-92 (94)			
BC637	60	1.0	40	250	150	TO-92 (94)			
BC635	45	1.0	40	250	150	TO-92 (94)			
BC368	20	2.0	85	375	500	TO-92 (94)			
BC337-25	45	0.8	160	400	100	TO-92 (97)			
BC337-16	45	0.8	100	250	100	TO-92 (97)			
TN6717A	80	1.2	50	250	250	TO-226			
TN3019A	80	1.0	100	300	150	TO-226			
TN6715A	40	1.5	50	250	1,000	TO-226			
TN6714A	30	2.0	50	250	1,000	TO-226			
PNP									
PN4356	80	0.8	50	250	10	TO-92			
PN4355	60	0.8	100	400	10	TO-92			
SS8550	25	1.5	85	300	100	TO-92			
BC640	80	1.0	40	250	150	TO-92 (94)			
BC638	60	1.0	40	250	150	TO-92 (94)			
BC636	45	1.0	40	250	150	TO-92 (94)			
BC369	20	1.5	85	375	500	TO-92 (94)			
TN6729A	80	1.0	50	250	250	TO-226			
TN4033A	80	1.0	100	300	100	TO-226			
TN6728A	60	1.2	50	250	250	TO-226			
TN6726A	30	1.5	50	250	1,000	TO-226			

Part Number	BV (V) Min	I _C (mA) Max	Hfe @ I _c			Package			
			Min	Max	mA				
High Voltage Amplifiers & Switches (cont.)									
PNP									
KSA1625	400	500	30	200	0.1	TO-92			
2N6520	350	500	30	200	30	TO-92			
MPSA92	300	100	40		10	TO-92			
KSP92	300	500	40		10	TO-92			
2N6519	300	500	45	270	30	TO-92			
2N6518	250	500	50	300	30	TO-92			
MPSA93	200	200	25		30	TO-92			
KPS93	200	500	25		30	TO-92			
2N5401	150	600	60	240	10	TO-92			
KSP709	150	700	40	240	50	TO-92			
2N5400	120	600	40	180	10	TO-92			
KSA992	120	50	200	800	1	TO-92			
MPSL51	100	200	40	250	50	TO-92			
BF421	300	100	50		25	TO-92 (94)			
KSA1013	160	1000	60	320	200	TO-92L			
KSA910	150	50	40	240	10	TO-92L			
KSA916	120	800	80	240	100	TO-92L			
KSA1174	120	50	200	800	1	TO-92S			

Part Number	BV (V) Min	I _C (A) Max	Hfe @ I _c			Package			
			Min	Max	mA				
Darlingtons									
NPN									
MPSA29	100	0.8	10,000		100	TO-92			
MPSA28	80	0.8	10,000		100	TO-92			
MPSA27	60	0.8	10,000		100	TO-92			
2N6426	40	1.2	30,000	300,000	100	TO-92			
2N6427	40	1.2	20,000	200,000	100	TO-92			
MPSA13	30	1.2	10,000		100	TO-92			
KSP13	30	0.5	10,000		100	TO-92			
MPSA14	30	1.2	20,000		100	TO-92			
KSP14	30	0.5	20,000		100	TO-92			
KSP12	20	0.5	20,000		10	TO-92			
2N7052	100	1.5	1,000	20,000	1,000	TO-92 (92)			
BSR50	40	1.5	1,000		150	TO-92 (94)			
2N5307	40	1.2	2,000	20,000	2	TO-92 (94)			
2N5308	40	1.2	7,000	70,000	2	TO-92 (94)			
2N7053	100	1.5	1,000	20,000	1,000	TO-226			
TN6725A	50	1.2	4,000	40,000	1,000	TO-226			
PNP									
KSP77	60	0.5	10,000		100	TO-92			
KSP76	50	0.5	10,000		100	TO-92			
KSP75	40	0.5	10,000		100	TO-92			
MPSA63	30	1.2	20,000		100	TO-92			
KSP63	30	0.5	20,000		100	TO-92			
MPSA64	30	1.2	20,000		100	TO-92			
KSP64	30	0.5	20,000		100	TO-92			



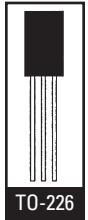
Note: Parts highlighted in red are new since June, 1998 or previously Samsung Power Device Division parts.

TO-92(92): TO-92 Plastic: E B C

(94): TO-92 Plastic: E C B

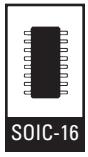
Low Saturation Transistors

Part Number	BV (V) Min	Ic (A) Max	Vcesat @ Ic		Hfe @ Ic			Package			
			Max (mV)	Ic (A)	Min	Max	Ic (mA)				
Low Saturation Transistors											
NPN											
FPN560	60	3	300	1	100	300	500	TO-226			
FPN560A	60	3	300	1	250	550	500	TO-226			
NZT560	60	3	450	3	100	300	500	SOT-223			
NZT560A	60	3	400	3	250	550	500	SOT-223			
FSB560	60	2	300	1	100	300	500	SuperSOT-3			
FSB560A	60	2	300	1	250	550	500	SuperSOT-3			
FSB619	50	2	200	1	200		10	SuperSOT-3			
FZT649	25	3	600	3	100	300	1,000	SOT-223			
PNP											
FPN660	60	3	300	1	100	300	500	TO-226			
FPN660A	60	3	300	1	250	550	500	TO-226			
NZT660	60	3	550	3	100	300	500	SOT-223			
NZT660A	60	3	500	3	250	550	500	SOT-223			
FSB660	60	2	300	1	100	300	500	SuperSOT-3			
FSB660A	60	2	300	1	250	550	500	SuperSOT-3			
FZT790A	40	3	450	1	200		1,000	SOT-223			
FZT749	25	3	600	3	100	300	1,000	SOT-223			



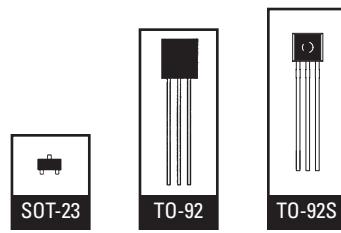
Multi-Chip Transistors

Part Number	BV (V) Min	Ic (mA) Max	Hfe @ Ic			Package			
			Min	Max	mA				
Multi-Chip Transistors									
NPN									
BC847S	45	100	110	630	2	SC70-6 Dual			
FFB2222A	40	500	100	300	150	SC70-6 Dual			
FFB3904	40	200	100	300	10	SC70-6 Dual			
FMB100	45	500	100	450	10	SuperSOT-6 Dual			
FMB2222A	40	500	100	300	150	SuperSOT-6 Dual			
FFB3904	40	200	100	300	10	SuperSOT-6 Dual			
FMBA06	80	500	100		10	SuperSOT-6 Dual			
MMPQ2222A	40	500	100	300	150	SOIC-16 Quad			
MMPQ3904	40	200	100	300	10	SOIC-16 Quad			
PNP									
BC857S	45	100	125	630	2	SC70-6 Dual			
FFB2907A	60	600	100	300	150	SC70-6 Dual			
FFB3906	40	200	100	300	10	SC70-6 Dual			
FMB200	45	500	100	450	10	SuperSOT-6 Dual			
FMB2907A	60	600	100	300	150	SuperSOT-6 Dual			
FMB3906	40	200	100	300	10	SuperSOT-6 Dual			
FMBA56	80	500	100		10	SuperSOT-6 Dual			
MMPQ2907A	60	600	100	300	150	SOIC-16 Quad			
MMPQ3906	40	200	100	300	10	SOIC-16 Quad			
NPN & PNP									
FMB1020	45	500	100	450	10	SuperSOT-6 Dual			
FMB2227A	40	500	100		150	SuperSOT-6 Dual			
FFB2227A	40	500	100		150	SC70-6 Dual			
FMB3946	40	200	100		10	SuperSOT-6 Dual			
FFB3946	40	200	100		10	SC70-6 Dual			
FMBA0656	80	500	100		10	SuperSOT-6 Dual			
MMPQ6502	30	600	100		150	SOIC-16 Quad			
MMPQ6700	40	200	70		10	SOIC-16 Quad			
NPN Darlington									
FMBA14	30	1200	10,000		10	SuperSOT-6 Dual			



Surface-Mount SOT-23, Through-Hole TO-92/TO-92S JFETs

Part Number	V _{GS} (off)		I _{DSS} Min-Max mA	G _{FS} Min-Max mS	B _V gss Min	V _{DS} Volts	R _{DS} (Ohms) Max	V _{GS} (off)		I _{DSS} Min-Max mA	G _{FS} Min-Max mS	Part Number								
	Min-Max Volts	I _D μA						Min-Max Volts	I _D μA											
SOT-23																				
N-Channel																				
Shared Values																				
MMBFJ201	0.3-1.5	0.01	0.2-1	0.5 -	40	20		0.8-4	0.01	0.9-4.5	1 -	MMBFJ202								
MMBF4392	2-5	0.001	25-75		30	20	60 & 30	4-10	0.001	50-150		MMBF4391								
MMBF5457	0.5-6	0.01	1-5	1-5	25	15		1-7	0.01	2-9	1.5-5.5	MMBF5458								
MMBF5459	2-8	0.01	4-16	2-6	25	15		0.3-3	0.01	1-5	3-6	MMBF5484								
MMBF5485	0.5-4	0.01	4-10	3.5-7	25	15		3-7.5	0.01	8-20	4-8	MMBF5486								
MMBFJ210	1-3	0.001	2-15	4-12	25	15		2.5-4.5	0.001	7-20	6-12	MMBFJ211								
MMBFJ212	4-6	0.001	15-40	7-12	25	15														
MMBF4117	0.6-1.8	0.001	.03-.09	0.07-0.21	40	10		1-3	0.001	0.08-0.24	0.08-0.25	MMBF4118								
MMBF4119	2-6	0.001	0.2-0.6	0.1-0.33	40	10														
MMBFJ310	2.0-6.5	0.001	24-60	8-18	25	10		1-4	0.001	12-30	10-20	MMBFJ309								
KSK211	0.4-4	1	1-10	9 (Typ)	18	10														
MMBFJ111	3-10	1.0	20 -		35	5	30 & 50	1-5	1.0	5 -		MMBFJ112								
MMBFJ113	0.5-3.0	1.0	2 -		35	5	100													
P-Channel																				
MMBFJ176	1-4	0.01	2-25		30	15	250 & 300	0.8-2.25	0.01	1.5-20		MMBFJ177								
MMBF5462	1.8-9	1.0	4-16	2-6	40	15														
MMBF5460	0.75-6	1.0	1-5	1-4	40	15		1-7.5	1	2-9	1.5-5.0	MMBF5461								
					30	15	85 & 125	3-6	0.01	7-60		MMBFJ175								
TO-92																				
N-Channel																				
PN4392	2-5	0.001	25-75		30	20	60 & 30	4-10	0.001	50-150		PN4391								
J201	0.3-1.5	0.01	0.2-1	0.5 -	40	20		0.8-4	0.01	0.9-4.5	1 -	J202								
J212	4-6	0.001	15-40	7-12	25	15														
J210	1-3	0.001	2-15	4-12	25	15		2.5-4.5	0.001	7-20	6-12	J211								
2N5485	0.5-4	0.01	4-10	3.5-7	25	15		3-7.5	0.01	8-20	4-8	2N5486								
2N5459	2-8	0.01	4-16	2-6	25	15		0.3-3	0.01	1-5	3-6	2N5484								
2N5457	0.5-6	0.01	1-5	1-5	25	15		1-7	0.01	2-9	1.5-5.5	2N5458								
PN4119	2-6	0.001	0.2-0.6	0.1-0.33	40	10														
PN4117	0.6-1.8	0.001	.03-.09	0.07-0.21	40	10		1-3	0.001	0.08-0.24	0.08-0.25	PN4118								
KSK30	0.4-5	0.1	0.3-6.5	1.2 -	50	10														
KSK117	0.2-1.5	0.1	0.6-14	4-15	50	10														
J310	2.0-6.5	0.001	24-60	8-18	25	10		1-4	0.001	12-30	10-20	J309								
PN5434	1-4	0.003	30 -		25	5	10													
J113	0.5-3.0	1.0	2 -		35	5	100													
J111	3-10	1.0	20 -		35	5	30 & 50	1-5	1.0	5 -		J112								
J110	0.5-4.0	1.0	10 -		25	5	18 & 5 ^①	4-10	0.003	150 -		PN5432								
J107	0.5-4.5	1.0	100 -		25	5	8	3-10	1.0	80 -		J108								
J106	2-6	1.0	200 -		25	5	6 & 12	2-6	1.0	40 -		J109								
J105	4.5-10	1.0	500 -		25	5	3	4.5-10	1.0	500 -		JFTJ105 (SO-8)								
P-Channel																				
2N5460	0.75-6	1.0	1-5	1-4	40	15		1-7.5	1	2-9	1.5-5.0	2N5461								
2N5462	1.8-9	1.0	4-16	2-6	40	15														
J174	5-10	0.01	20-100		30	15	85 & 125	3-6	0.01	7-60		J175								
J176	1-4	0.01	2-25		30	15	250 & 300	0.8-2.25	0.01	1.5-20		J177								
TO-92S																				
N-Channel																				
KSK161	0.4-4	1	1-10	9 (Typ)	18	10														
KSK596	- 1.5	1	0.1-0.08	1.2(Typ)	20	5														



^① R_{DS} Min. = 2Ω; R_{DS} Max. = 5Ω

Note: Parts highlighted in red are new since June, 1998 or previously Samsung Power Device Division parts.

Schottky Diodes

Part Number	Configuration	BV (V) Min	I _R @ V _R		V _F @ I _F			
			I _R (μ A) Max	V _R (V)	V _F (V) Max	I _F (A)		
Schottky Diodes								
SOT-23								
BAR 43	Single	30	0.5	25	1.0	0.1		
BAR 43A	CA	30	0.5	25	1.0	0.1		
BAR 43C	CC	30	0.5	25	1.0	0.1		
BAR 43S	Series - Pin 3	30	0.5	25	1.0	0.1		
BAT54	Single	30	2.0	25	1.0	0.1		
BAT54A	CA - Common Anode (Pin 3)	30	2.0	25	1.0	0.1		
BAT54C	CC - Common Cathode (Pin 3)	30	2.0	25	1.0	0.1		
BAT54S	Series - Anode & Common Cathode (Pin 3)	30	2.0	25	1.0	0.1		
MMBD301	Single	30	0.2	25	0.6	0.01		
MMBD701	Single	70	0.2	35	1.0	0.01		



Multi-Chip Diodes

Part Number	Configuration	BV (V) Min	I _R @ V _R		V _F @ I _F		T _{rr} (ns) Max			
			(nA) Max	(V)	(V) Max	I _F (mA)				
Multi-Chip Diodes										
SuperSOT-6										
FMD74C*	Common Cathode - Dual BAV74	50	100	50	1.00	100	4.0			
FMD70C*	Common Cathode - Dual BAV70	70	2,500	70	1.00	50	6.0			
FMD4148C*	Common Cathode - Dual MMBD4148C	100	25	20	1.00	10	4.0			



* Preliminary information; samples available. Full production release is pending reliability completion.

Note: Parts highlighted in red are new since June, 1998.

Single Junction Diodes

Part Number	Configuration	Package	I _R (nA) Max	V _F @ I _F		Tr _r (nS) Max	Shared Values BV (V)	I _R (nA) Max	V _F @ I _F		Tr _r (nS) Max	Part Number								
				(V) Max	I _F (mA)				(V) Max	I _F (mA)										
Single Junction Diodes																				
Surface Mount (LL34, SOD-123 & SOT-23)																				
MMBD1701/A	Single	SOT-23	50	1.1	50	0.7/1.0	30	25	1	100		1N456A								
MMBD1703/A	Series	SOT-23	50	1.1	50	0.7/1.0	30													
MMBD1704/A	Common Cathode	SOT-23	50	1.1	50	0.7/1.0	30													
MMBD1705/A	Common Anode	SOT-23	50	1.1	50	0.7/1.0	30													
MMBD2837	Common Cathode	SOT-23	100	1.2	100	4.0	35	100	1	30	2	1N4154								
BAV74	Common Cathode	SOT-23	100	1	100	4.0	50	100	1	20	2	BAY71								
BAW74	Common Anode	SOT-23	100	1	100	4.0	50													
BAV70	Common Cathode	SOT-23	2500	1	50	6	70	25	1	20		1N457								
BAV99	Series	SOT-23	2500	1	50	6	70	25	1	100		1N457A								
FDLL600	Single	LL-34	100	1	200	4	75	100	1	10	4	1N3064								
FDLL4150	Single	LL-34	100	1	200	4	75	100	1	200	4	1N4150								
MMBD2838	Common Cathode	SOT-23	100	1.2	100	4	75	100	1	50	2	1N4151								
							75	100	0.85	10	2	1N4305								
							75	100	1	10	4	1N4454								
BAS16	Single	SOT-23	1000	1	50	6	85/75	25	1	100	4	BAW62								
BAW56	Common Anode	SOT-23	2500	1	50	6	85/75	100	1	100	2	BAW76								
MMBD1201	Single	SOT-23	50	1	200	4	100	25	1	10	4	1N914								
MMBD1203	Series	SOT-23	50	1	200	4	100	25	1	20	4	1N914A								
MMBD1204	Common Cathode	SOT-23	50	1	200	4	100	25	1	100	4	1N914B								
MMBD1205	Common Anode	SOT-23	50	1	200	4	100	25	1	10	4	1N4148								
FDLL914	Single	LL-34	25	1	10	4	100	25	1	10	4	1N4149								
MMBD914	Single	SOT-23	25	1	10	4	100	25	1	100	4	1N4448								
MMSD914	Single	SOD-123	25	1	10	4	100													
FDLL4148	Single	LL-34	25	1	10	4	100													
MMBD4148	Single	SOT-23	25	1	10	4	100													
MMSD4148	Single	SOD-123	25	1	10	4	100													
MMBD4148SE ^①	Series	SOT-23	25	1	10	4	100													
MMBD4148CC ^②	Common Cathode	SOT-23	25	1	10	4	100													
MMBD4148CA ^③	Common Anode	SOT-23	25	1	10	4	100													
MMBD4448	Single	SOT-23	25	1	100	4	100													
MMBD7000	Series	SOT-23	300	1.1	50	4	100													
BAS19	Single	SOT-23	100	1	100	50	120	100	1	100	50	BAV19								
BAS29	Single	SOT-23	100	1	200	50	120													
BAS31	Series	SOT-23	100	1	200	50	120/125	100	1	100	50	BAY72								
BAS35	Common Anode	SOT-23	100	1	200	50	120/125	5	1	200	1000	BAY73								
FDLL300/A	Single	LL-34	1	1	200		150	1	1	200		FDH300/A								
FDLL3595	Single	LL-34	1	1	200	3000	150	1	1	200		FDH3595								
							150	3	1.05	200		FDH333								
							150	25	1	100		1N458A								
							150	100	1.2	200		1S922TR								
BAV102	Single	LL-34	100	1	100	50	200													
BA520	Single	SOT-23	100	1	100	50	200	100	1	100	50	BAV20								
FLLD261	Series	SOT-23	5.0	1.4	200	400	200	100	1	200	50	FDH400								
MMBD1401	Single	SOT-23	100	1	200	50	200	100	1	100	50	1N3070								
MMBD1403	Series	SOT-23	100	1	200	50	200	100	1	100	50	1N4938								
MMBD1404	Common Cathode	SOT-23	100	1	200	50	200	25	1	3		1N459								
MMBD1405	Common Anode	SOT-23	100	1	200	50	200	25	1	100		1N459A								
MMBD1501A	Single	SOT-23	1	1.1	200		200	25	1	100		1N485B								
MMBD1503A	Series	SOT-23	1	1.1	200		200													
MMBD1504A	Common Cathode	SOT-23	1	1.1	200		200	100	1.2	200		1S923.TR								
MMBD1505A	Common Anode	SOT-23	1	1.1	200		200													
BAS21	Single	SOT-23	100	1	100	50	250	100	1	100	50	BAV21								
BAV103	Single	LL-34	100	1	100	50	250	50	1	100		1N486B								
BAV23S	Series	SOT-23	100	1	100	50	250													

^① SE = Anode & Cathode Common (Pin 3)

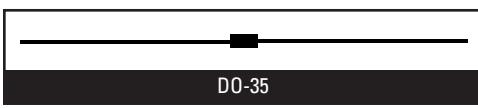
^② CC = Common Cathode (Pin 3)

^③ CA = Common Anode (Pin 3)

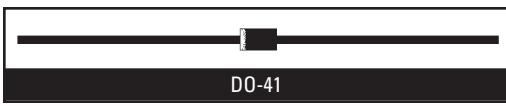


Zener Diodes

Through-Hole (DO-35)		V_Z (Volts) Nominal	Z_Z (Ohms) Max	I_{ZT} (mA)	Surface Mount	
					SOD-123	SOT-23
Zener Diodes (0.35 & 0.5 Watt)						
1N5226B	1N746A	3.3	28	20	MMSZ5226B	MMBZ5226B
1N5227B	1N747A	3.6	24	20	MMSZ5227B	MMBZ5227B
1N5228B	1N748A	3.9	23	20	MMSZ5228B	MMBZ5228B
1N5229B	1N749A	4.3	22	20	MMSZ5229B	MMBZ5229B
1N5230B	1N750A	4.7	19	20	MMSZ5230B	MMBZ5230B
1N5231B	1N751A	5.1	17	20	MMSZ5231B	MMBZ5231B
1N5232B	1N752A	5.6	11	20	MMSZ5232B	MMBZ5232B
1N5233B		6	7	20	MMSZ5233B	MMBZ5233B
1N5234B	1N753A	6.2	7	20	MMSZ5234B	MMBZ5234B
1N5235B	1N754A	6.8	5	20	MMSZ5235B	MMBZ5235B
1N5236B	1N755A	7.5	6	20	MMSZ5236B	MMBZ5236B
1N5237B	1N756A	8.2	8	20	MMSZ5237B	MMBZ5237B
1N5238B		8.7	8	20	MMSZ5238B	MMBZ5238B
1N5239B	1N757A	9.1	10	20	MMSZ5239B	MMBZ5239B
1N5240B	1N758A	10	17	20	MMSZ5240B	MMBZ5240B
1N5241B		11	22	20	MMSZ5241B	MMBZ5241B
1N5242B	1N759A	12	30	20	MMSZ5242B	MMBZ5242B
1N5243B	1N964B	13	13	9.5	MMSZ5243B	MMBZ5243B
1N5244B		14	15	9	MMSZ5244B	MMBZ5244B
1N5245B	1N965B	15	16	8.5	MMSZ5245B	MMBZ5245B
1N5246B	1N966B	16	17	7.8	MMSZ5246B	MMBZ5246B
1N5247B		17	19	7.4	MMSZ5247B	MMBZ5247B
1N5248B	1N967B	18	21	7	MMSZ5248B	MMBZ5248B
1N5249B		19	23	6.6	MMSZ5249B	MMBZ5249B
1N5250B	1N968B	20	25	6.2	MMSZ5250B	MMBZ5250B
1N5251B	1N969B	22	29	5.6	MMSZ5251B	MMBZ5251B
1N5252B	1N970B	24	33	5.2	MMSZ5252B	MMBZ5252B
1N5253B		25	35	5	MMSZ5253B	MMBZ5253B
1N5254B	1N971B	27	41	4.6	MMSZ5254B	MMBZ5254B
1N5255B		28	44	4.5	MMSZ5255B	MMBZ5255B
1N5256B	1N972B	30	49	4.2	MMSZ5256B	MMBZ5256B
1N5257B	1N973B	33	58	3.8	MMSZ5257B	MMBZ5257B



DO-35



DO-41

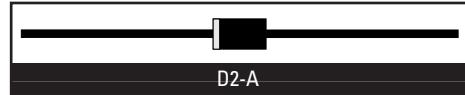
Through-Hole (DO-35)	V_Z (Volts) @ $I_{ZT} = 5.0$ mA			I_{surge} (mA)
	Min	Nominal	Max	
Zener Diodes (0.35 & 0.5 Watt)				
BZX55C3V3	BZX79C3V	3.1	3.3	3.5
BZX55C3V6	BZX79C3V6	3.4	3.6	3.8
BZX55C3V9	BZX79C3V9	3.7	3.9	4.1
BZX55C4V3	BZX79C4V3	4.0	4.3	4.6
BZX55C4V7	BZX79C4V7	4.4	4.7	5.0
BZX55C5V1	BZX79C5V1	4.8	5.1	5.4
BZX55C5V6	BZX79C5V6	5.2	5.6	6.0
BZX55C6V2	BZX79C6V2	5.8	6.2	6.6
BZX55C6V8	BZX79C6V8	6.4	6.8	7.2
BZX55C7V5	BZX79C7V5	7.0	7.5	7.9
BZX55C8V2	BZX79C8V2	7.7	8.2	8.7
BZX55C9V1	BZX79C9V1	8.5	9.1	9.6
BZX55C10	BZX79C10	9.4	10.0	10.6
BZX55C11	BZX79C11	10.4	11.0	11.6
BZX55C12	BZX79C12	11.4	12.0	12.7
BZX55C13	BZX79C13	12.4	13.0	14.1
BZX55C15	BZX79C15	13.8	15.0	15.6
BZX55C16	BZX79C16	15.3	16.0	17.1
BZX55C18	BZX79C18	16.8	18.0	19.1
BZX55C20	BZX79C20	18.8	20.0	21.2
BZX55C22	BZX79C22	20.8	22.0	23.3
BZX55C24	BZX79C24	22.8	24.0	25.6
BZX55C27		25.1	27.0	28.9
BZX55C30		28.0	30.0	32.0
BZX55C33		31.0	33.0	35.0
V_Z (Volts) @ $I_{ZT} = 2.0$ mA				
BZX79C27	25.1	27.0	28.9	BZX84C27
BZX79C30	28.0	30.0	32.0	BZX84C30
BZX79C33	31.0	33.0	35.0	BZX84C33

Through-Hole (DO-41)	$V_F = 1.20V$ Max @ $I_F = 200mA$			I_{surge} (mA)
	V_Z (Volts) Nominal	Z_Z (Ohms) Max	I_{ZT} (mA)	
Zener Diodes (1 Watt)				
1N4728A	3.3	10	76	1,380
1N4729A	3.6	10	69	1,260
1N4730A	3.9	9	64	1,190
1N4731A	4.3	9	58	1,070
1N4732A	4.7	8	53	970
1N4733A	5.1	7	49	890
1N4734A	5.6	5	45	810
1N4735A	6.2	2	41	730
1N4736A	6.8	3.5	37	660
1N4737A	7.5	4	34	605
1N4738A	8.2	4.5	31	550
1N4739A	9.1	5	28	500
1N4740A	10	7	25	454
1N4741A	11	8	23	414
1N4742A	12	9	21	380
1N4743A	13	10	19	344
1N4744A	15	14	17	304
1N4745A	16	16	15.5	285
1N4746A	18	20	14	250
1N4747A	20	22	12.5	225
1N4748A	22	23	11.5	205
1N4749A	24	25	10.5	190
1N4750A	27	35	9.5	170
1N4751A	30	40	8.5	150
1N4752A	33	45	7.5	135

Zener Diodes (continued)

Axial Leaded (DO-41)	$V_F = 1.50V$ Max @ $I_F = 200mA$		
	V_Z (Volts) Nominal	Z_Z (Ohms) Max	I_{ZT} (mA)
Zener Diodes (1.5 Watt)			
1N5913A	3.3	10	113.6
1N5914A	3.6	9	104.2
1N5915A	3.9	7.5	96.1
1N5916A	4.3	6	87.2
1N5917A	4.7	5	79.8
1N5918A	5.1	4	73.5
1N5919A	5.6	2	66.9
1N5920A	6.2	2	60.5
1N5921A	6.8	2.5	55.1
1N5922A	7.5	3	50
1N5923A	8.2	3.5	45.7
1N5924A	9.1	4	41.2
1N5925A	10	4.5	37.5
1N5926A	11	5.5	34.1
1N5927A	12	6.5	31.2
1N5928A	13	7	28.8
1N5929A	15	9	25
1N5930A	16	10	23.4
1N5931A	18	12	20.8
1N5932A	20	14	18.7
1N5933A	22	17.5	17
1N5934A	24	19	15.6
1N5935A	27	23	13.9
1N5936A	30	26	12.5
1N5937A	33	33	11.4
1N5938A	36	38	10.4
1N5939A	39	45	9.6
1N5940A	43	53	8.7
1N5941A	47	67	8
1N5942A	51	70	7.3
1N5943A	56	86	6.7
1N5944A	62	100	6
1N5945A	68	120	5.5
1N5946A	75	140	5
1N5947A	82	160	4.6
1N5948A	91	200	4.1
1N5949A	100	250	3.7

Axial Leaded (D2-A)	$V_F = 1.20V$ Max @ $I_F = 200mA$		
	V_Z (Volts) Nominal	Z_Z (Ohms) Max	I_{ZT} (mA)
Zener Diodes (5 Watt cont.)			
1N5333A	3.3	3	380
1N5334A	3.6	2.5	350
1N5335A	3.9	2	320
1N5336A	4.3	2	290
1N5337A	4.7	2	260
1N5338A	5.1	1.5	240
1N5339A	5.6	1	220
1N5340A	6.0	1	200
1N5341A	6.2	1	200
1N5342A	6.8	1	175
1N5343A	7.5	1.5	175
1N5344A	8.2	1.5	150
1N5345A	8.7	2	150
1N5346A	9.1	2	150
1N5347A	10	2	125
1N5348A	11	2.5	125
1N5349A	12	2.5	100
1N5350A	13	2.5	100
1N5351A	14	2.5	100
1N5352A	15	2.5	75
1N5353A	16	2.5	75
1N5354A	17	2.5	70
1N5355A	18	2.5	65
1N5356A	19	3	65
1N5357A	20	3	65
1N5358A	22	3.5	50
1N5359A	24	3.5	50
1N5360A	25	4	50
1N5361A	27	5	50
1N5362A	28	6	50
1N5363A	30	8	40
1N5364A	33	10	40
1N5365A	36	11	30
1N5366A	39	14	30
1N5367A	43	20	30
1N5368A	47	25	25
1N5369A	51	27	25
1N5370A	56	35	20
1N5371A	60	40	20
1N5372A	62	42	20
1N5373A	68	44	20
1N5374A	75	45	20
1N5375A	82	65	15
1N5376A	87	75	15
1N5377A	91	75	15
1N5378A	100	90	12



D2-A



DO-41

Note: Parts highlighted in red are new since June, 1998.

Zener Diodes (continued)

Surface Mount (SMA)	$V_F = 1.20V$ Max @ $I_F = 200mA$		
	V_Z (Volts) Nominal	Z_Z (Ohms) Max	I_{ZT} (mA)
Zener Diodes (1 Watt)			
1SMA4728A	3.3	10	76
1SMA4729A	3.6	10	69
1SMA4730A	3.9	9	64
1SMA4731A	4.3	9	58
1SMA4732A	4.7	8	53
1SMA4733A	5.1	7	49
1SMA4734A	5.6	5	45
1SMA4735A	6.2	2	41
1SMA4736A	6.8	3.5	37
1SMA4737A	7.5	4	34
1SMA4738A	8.2	4.5	31
1SMA4739A	9.1	5	28
1SMA4740A	10	7	25
1SMA4741A	11	8	23
1SMA4742A	12	9	21
1SMA4743A	13	10	19
1SMA4744A	15	14	17
1SMA4745A	16	16	15.5
1SMA4746A	18	20	14
1SMA4747A	20	22	12.5
1SMA4748A	22	23	11.5
1SMA4749A	24	25	10.5
1SMA4750A	27	35	9.5
1SMA4751A	30	40	8.5
1SMA4752A	33	45	7.5
1SMA4753A	36	50	7
1SMA4754A	39	60	6.5
1SMA4755A	43	70	6
1SMA4756A	47	80	5.5
1SMA4757A	51	95	5
1SMA4758A	56	110	4.5
1SMA4759A	62	125	4
1SMA4760A	68	150	3.7
1SMA4761A	75	175	3.3
1SMA4762A	82	200	3
1SMA4763A	91	250	2.8
1SMA4764A	100	350	2.5

Surface Mount (SMA)	$V_F = 1.50V$ Max @ $I_F = 200mA$		
	V_Z (Volts) Nominal	Z_Z (Ohms) Max	I_{ZT} (mA)
Zener Diodes (1.5 Watt)			
1SMA5913A	3.3	10	113.6
1SMA5914A	3.6	9	104.2
1SMA5915A	3.9	7.5	96.1
1SMA5916A	4.3	6	87.2
1SMA5917A	4.7	5	79.8
1SMA5918A	5.1	4	73.5
1SMA5919A	5.6	2	66.9
1SMA5920A	6.2	2	60.5
1SMA5921A	6.8	2.5	55.1
1SMA5922A	7.5	3	50
1SMA5923A	8.2	3.5	45.7
1SMA5924A	9.1	4	41.2
1SMA5925A	10	4.5	37.5
1SMA5926A	11	5.5	34.1
1SMA5927A	12	6.5	31.2
1SMA5928A	13	7	28.8
1SMA5929A	15	9	25
1SMA5930A	16	10	23.4
1SMA5931A	18	12	20.8
1SMA5932A	20	14	18.7
1SMA5933A	22	17.5	17
1SMA5934A	24	19	15.6
1SMA5935A	27	23	13.9
1SMA5936A	30	26	12.5
1SMA5937A	33	33	11.4
1SMA5938A	36	38	10.4
1SMA5939A	39	45	9.6
1SMA5940A	43	53	8.7
1SMA5941A	47	67	8
1SMA5942A	51	70	7.3
1SMA5943A	56	86	6.7
1SMA5944A	62	100	6
1SMA5945A	68	120	5.5
1SMA5946A	75	140	5
1SMA5947A	82	160	4.6
1SMA5948A	91	200	4.1
1SMA5949A	100	250	3.7

Note: Parts highlighted in red are new since June, 1998.



Zener Diodes (continued)

Surface Mount (SMB)	$V_F = 1.20V$ Max @ $I_F = 200mA$		
	V_Z (Volts) Nominal	Z_Z (Ohms) Max	I_{ZT} (mA)
Zener Diodes (5 Watt)			
1SMB5333A	3.3	3	380
1SMB5334A	3.6	2.5	350
1SMB5335A	3.9	2	320
1SMB5336A	4.3	2	290
1SMB5337A	4.7	2	260
1SMB5338A	5.1	1.5	240
1SMB5339A	5.6	1	220
1SMB5340A	6.0	1	200
1SMB5341A	6.2	1	200
1SMB5342A	6.8	1	175
1SMB5343A	7.5	1.5	175
1SMB5344A	8.2	1.5	150
1SMB5345A	8.7	2	150
1SMB5346A	9.1	2	150
1SMB5347A	10	2	125
1SMB5348A	11	2.5	125
1SMB5349A	12	2.5	100
1SMB5350A	13	2.5	100
1SMB5351A	14	2.5	100
1SMB5352A	15	2.5	75
1SMB5353A	16	2.5	75
1SMB5354A	17	2.5	70
1SMB5355A	18	2.5	65
1SMB5356A	19	3	65
1SMB5357A	20	3	65
1SMB5358A	22	3.5	50
1SMB5359A	24	3.5	50
1SMB5360A	25	4	50
1SMB5361A	27	5	50
1SMB5362A	28	6	50
1SMB5363A	30	8	40
1SMB5364A	33	10	40
1SMB5365A	36	11	30
1SMB5366A	39	14	30
1SMB5367A	43	20	30
1SMB5368A	47	25	25
1SMB5369A	51	27	25
1SMB5370A	56	35	20
1SMB5371A	60	40	20
1SMB5372A	62	42	20
1SMB5373A	68	44	20
1SMB5374A	75	45	20
1SMB5375A	82	65	15
1SMB5376A	87	75	15
1SMB5377A	91	75	15
1SMB5378A	100	90	12



Fast Recovery Diodes

Note: All parts on this page were previously Samsung Power Device Division parts.

Part Number	V _R (V)	I _F (A)	V _F (V) (Max)	T _{rr} (ns) (Max)	Symbol
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TO-220F

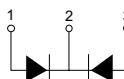
Single

SDS06U20S	200	6	1.2	35
SDS10U20S	200	10	1.2	35
SDS15U20S	200	15	1.2	40
SDS20U20S	200	20	1.2	40
SDS30U20S	200	30	1.2	40
SDS04U40S	400	4	1.4	45
SDS06U40S	400	6	1.4	50
SDS10U40S	400	10	1.4	50
SDS15U40S	400	15	1.4	50
SDS20U40S	400	20	1.4	50
SDS05U60S	600	5	2.3	80
SDS10U60S	600	10	2.2	90
SDS20U60S	600	20	2.2	90
SDS30U60S	600	30	2.3	90
SDS40U60S	600	40	2.1	110
SDS05U120S	1200	5	3.5	100
SDS10U120S	1200	10	3.5	100
SDS15U120S	1200	15	3.5	100
SDS04F150S	1500	4	1.6	170
SDS04U150S	1500	4	1.8	150
SDS06F150S	1500	6	1.6	170
SDS06U150S	1500	6	1.8	150
SDS10F150S	1500	10	1.6	170
SDS10U150S	1500	10	1.8	150
SDS14U150S	1500	14	1.8	150
SDS14X150S	1500	14	2.4	120
SDS05U170S**	1700	5	1.8	150
SDS08U170S**	1700	8	1.8	150



Dual & Common Cathode

SDS06U20DN	200	6	1.2	35
SDS10U20DN	200	10	1.2	35
SDS15U20DN	200	15	1.2	40
SDS04U40DN	400	4	1.4	45
SDS06U40DN	400	6	1.4	50
SDS05U60DN	600	5	2.3	80
SDS10U60DN	600	10	2.2	90
SDS20U60DN	600	20	2.2	90
SDS30U60DN	600	30	2.3	90

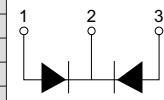


Part Number	V _R (V)	I _F (A)	V _F (V) (Max)	T _{rr} (ns) (Max)	Symbol
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TO-3PF

Dual & Common Cathode

SDF15U20DN	200	15	1.2	40
SDF20U20DN	200	20	1.2	40
SDF30U20DN	200	30	1.2	40
SDF10U40DN	400	10	1.4	50
SDF15U40DN	400	15	1.4	50
SDF20U40DN	400	20	1.4	50
SDF30U60DN	600	30	2.3	90
SDF40U60DN	600	40	2.1	110
SDF60U60DN	600	60	2.2	110
SDF05U120DN	1200	5	3.5	100
SDF10U120DN	1200	10	3.5	100
SDF15U120DN	1200	15	3.3	100
SDF20U120DN	1200	20	3.3	100

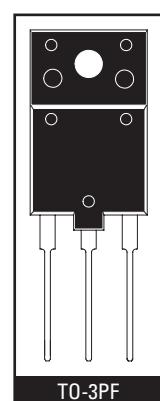
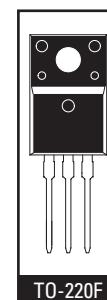
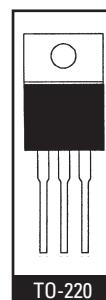
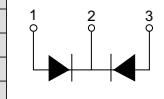


Part Number	V _R (V)	I _F (A)	V _F (V) (Max)	T _{rr} (ns) (Max)	Symbol
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TO-220

Dual & Common Cathode

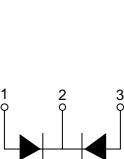
SDP06U20DN	200	6	1.2	35
SDP10U20DN	200	10	1.2	35
SDP15U20DN	200	15	1.2	40
SDP04U40DN	400	4	1.4	45
SDP06U40DN	400	6	1.4	50
SDP05U60DN	600	5	2.3	80
SDP10U60DN	600	10	2.2	90
SDP20U60DN	600	20	2.2	90
SDP30U60DN	600	30	2.3	90



Fast Recovery Diodes (continued)

Note: All parts on this page were previously Samsung Power Device Division parts.

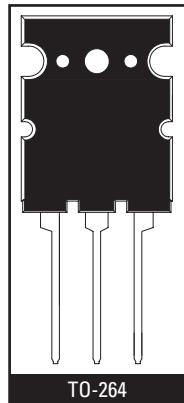
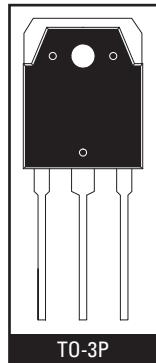
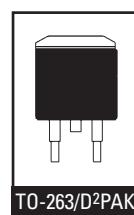
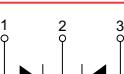
Part Number	V _R (V)	I _F (A)	V _F (V) (Max)	Tr (ns) (Max)	Symbol
TO-3P					
Dual & Common Cathode					
SDH15U20DN	200	15	1.2	40	
SDH20U20DN	200	20	1.2	40	
SDH30U20DN	200	30	1.2	40	
SDH10U40DN	400	10	1.4	50	
SDH15U40DN	400	15	1.4	50	
SDH20U40DN	400	20	1.4	50	
SDH30U60DN	600	30	2.3	90	
SDH40U60DN	600	40	2.1	110	
SDH60U60DN	600	60	2.2	110	
SDH05U120DN	1200	5	3.5	100	
SDH10U120DN	1200	10	3.5	100	
SDH15U120DN	1200	15	3.5	100	
SDH20U120DN	1200	20	3.3	120	



Part Number	V _R (V)	I _F (A)	V _F (V) (Max)	Tr (ns) (Max)	Symbol
TO-263/D²PAK					
Single					
SDW06U20S	200	6	1.2	35	
SDW10U20S	200	10	1.2	35	
SDW15U20S	200	15	1.2	40	
SDW20U20S	200	20	1.2	40	
SDW04U40S	400	4	1.4	45	
SDW06U40S	400	6	1.4	50	
SDW10U40S	400	10	1.4	50	
SDW15U40S	400	15	1.4	50	
SDW05U60S	600	5	2.3	80	
SDW10U60S	600	10	2.2	90	
SDW20U60S	600	20	2.2	90	
SDW30U60S	600	30	2.3	90	
SDW05U120S	1200	5	3.5	100	
SDW10U120S	1200	10	3.5	100	
SDW15U120S	1200	15	3.5	100	



Part Number	V _R (V)	I _F (A)	V _F (V) (Max)	Tr (ns) (Max)	Symbol
TO-264					
Dual & Common Cathode					
SDL40U60DN	600	40	2.1	110	
SDL60U60DN	600	60	2.2	110	
SDL20U120DN	1200	20	3.3	120	
SDL25U120DN	1200	25	3.3	120	



Surface-Mount Transient Voltage Suppressors

Note: For Bi-directional parts, use the 'CA' suffix (i.e. SMBJ5.0CA). For Uni-directional parts, use the 'A' suffix (i.e. SMBJ5.0A).

Part Number	V _{RWM} (V)	I _R (μ A)** @ V _{RWM}
600 Watt/ms		
SMB		
SMBJ5.0(C)A	5.0	800
SMBJ6.0(C)A	6.0	800
SMBJ6.5(C)A	6.5	500
SMBJ7.0(C)A	7.0	200
SMBJ7.5(C)A	7.5	100
SMBJ8.0(C)A	8.0	50
SMBJ8.5(C)A	8.5	20
SMBJ9.0(C)A	9.0	10
SMBJ10(C)A	10.0	5
SMBJ11(C)A	11.0	5
SMBJ12(C)A	12.0	5
SMBJ13(C)A	13.0	5
SMBJ14(C)A	14.0	5
SMBJ15(C)A	15.0	5
SMBJ16(C)A	16.0	5
SMBJ17(C)A	17.0	5
SMBJ18(C)A	18.0	5
SMBJ20(C)A	20.0	5
SMBJ22(C)A	22.0	5
SMBJ24(C)A	24.0	5
SMBJ26(C)A	26.0	5
SMBJ28(C)A	28.0	5
SMBJ30(C)A	30.0	5
SMBJ33(C)A	33.0	5
SMBJ36(C)A	36.0	5
SMBJ40(C)A	40.0	5
SMBJ43(C)A	43.0	5
SMBJ45(C)A	45.0	5
SMBJ48(C)A	48.0	5
SMBJ51(C)A	51.0	5
SMBJ54(C)A	54.0	5
SMBJ58(C)A	58.0	5
SMBJ60(C)A	60.0	5
SMBJ64(C)A	64.0	5
SMBJ70(C)A	70.0	5
SMBJ75(C)A	75.0	5
SMBJ78(C)A	78.0	5
SMBJ85(C)A	85.0	5
SMBJ90(C)A	90.0	5
SMBJ100(C)A	100.0	5
SMBJ110(C)A	110.0	5
SMBJ120(C)A	120.0	5
SMBJ130(C)A	130.0	5
SMBJ150(C)A	150.0	5
SMBJ160(C)A	160.0	5
SMBJ170(C)A	170.0	5



Part Number	V _{RWM} (V)	I _R (μ A)** @ V _{RWM}
1500 Watt/ms		
SMC		
SMCJ5.0(C)A	5.0	1000
SMCJ6.0(C)A	6.0	1000
SMCJ6.5(C)A	6.5	500
SMCJ7.0(C)A	7.0	200
SMCJ7.5(C)A	7.5	100
SMCJ8.0(C)A	8.0	50
SMCJ8.5(C)A	8.5	20
SMCJ9.0(C)A	9.0	10
SMCJ10(C)A	10.0	5
SMCJ11(C)A	11.0	5
SMCJ12(C)A	12.0	5
SMCJ13(C)A	13.0	5
SMCJ14(C)A	14.0	5
SMCJ15(C)A	15.0	5
SMCJ16(C)A	16.0	5
SMCJ17(C)A	17.0	5
SMCJ18(C)A	18.0	5
SMCJ20(C)A	20.0	5
SMCJ22(C)A	22.0	5
SMCJ24(C)A	24.0	5
SMCJ26(C)A	26.0	5
SMCJ28(C)A	28.0	5
SMCJ30(C)A	30.0	5
SMCJ33(C)A	33.0	5
SMCJ36(C)A	36.0	5
SMCJ40(C)A	40.0	5
SMCJ43(C)A	43.0	5
SMCJ45(C)A	45.0	5
SMCJ48(C)A	48.0	5
SMCJ51(C)A	51.0	5
SMCJ54(C)A	54.0	5
SMCJ58(C)A	58.0	5
SMCJ60(C)A	60.0	5
SMCJ64(C)A	64.0	5
SMCJ70(C)A	70.0	5
SMCJ75(C)A	75.0	5
SMCJ78(C)A	78.0	5
SMCJ85(C)A	85.0	5
SMCJ90(C)A	90.0	5
SMCJ100(C)A	100.0	5
SMCJ110(C)A	110.0	5
SMCJ120(C)A	120.0	5
SMCJ130(C)A	130.0	5
SMCJ150(C)A	150.0	5
SMCJ160(C)A	160.0	5
SMCJ170(C)A	170.0	5



**For Bi-directional parts with V_{RWM} < 10V, the I_R MAX limit is doubled.

Axial Lead Transient Voltage Suppressors

Note: For Bi-directional parts, use the 'CA' suffix (i.e. SA5.0CA). For Uni-directional parts, use the 'A' suffix (i.e. SA5.0A).

Part Number	V _{RWM} (V)	I _R (μ A)** @ V _{RWM}
500 Watt/ms		
DO-15		
SA5.0(C)A	5.0	600
SA6.0(C)A	6.0	600
SA6.5(C)A	6.5	400
SA7.0(C)A	7.0	150
SA7.5(C)A	7.5	50
SA8.0(C)A	8.0	25
SA8.5(C)A	8.5	10
SA9.0(C)A	9.0	5
SA10(C)A	10.0	1
SA11(C)A	11.0	1
SA12(C)A	12.0	1
SA13(C)A	13.0	1
SA14(C)A	14.0	1
SA15(C)A	15.0	1
SA16(C)A	16.0	1
SA17(C)A	17.0	1
SA18(C)A	18.0	1
SA20(C)A	20.0	1
SA22(C)A	22.0	1
SA24(C)A	24.0	1
SA26(C)A	26.0	1
SA28(C)A	28.0	1
SA30(C)A	30.0	1
SA33(C)A	33.0	1
SA36(C)A	36.0	1
SA40(C)A	40.0	1
SA43(C)A	43.0	1
SA45(C)A	45.0	1
SA48(C)A	48.0	1
SA51(C)A	51.0	1
SA54(C)A	54.0	1
SA58(C)A	58.0	1
SA60(C)A	60.0	1
SA64(C)A	64.0	1
SA70(C)A	70.0	1
SA75(C)A	75.0	1
SA78(C)A	78.0	1
SA85(C)A	85.0	1
SA90(C)A	90.0	1
SA100(C)A	100.0	1
SA110(C)A	110.0	1
SA120(C)A	120.0	1
SA130(C)A	130.0	1
SA150(C)A	150.0	1
SA160(C)A	160.0	1
SA170(C)A	170.0	1



Part Number	V _{RWM} (V)	I _R (μ A)** @ V _{RWM}
600 Watt/ms		
DO-15		
P6KE6.8(C)A	5.8	1000
P6KE7.5(C)A	6.4	500
P6KE8.2(C)A	7.02	200
P6KE9.1(C)A	7.78	50
P6KE10(C)A	8.55	10
P6KE11(C)A	9.4	5
P6KE12(C)A	10.2	5
P6KE13(C)A	11.1	5
P6KE15(C)A	12.8	5
P6KE16(C)A	13.6	5
P6KE18(C)A	15.3	5
P6KE20(C)A	17.1	5
P6KE22(C)A	18.8	5
P6KE24(C)A	20.5	5
P6KE27(C)A	23.1	5
P6KE30(C)A	25.6	5
P6KE33(C)A	28.2	5
P6KE36(C)A	30.8	5
P6KE39(C)A	33.3	5
P6KE43(C)A	36.8	5
P6KE47(C)A	40.2	5
P6KE51(C)A	43.6	5
P6KE56(C)A	47.8	5
P6KE62(C)A	53.0	5
P6KE68(C)A	58.1	5
P6KE75(C)A	64.1	5
P6KE82(C)A	70.1	5
P6KE91(C)A	77.8	5
P6KE100(C)A	85.5	5
P6KE110(C)A	94.0	5
P6KE120(C)A	102.0	5
P6KE130(C)A	111.0	5
P6KE150(C)A	128.0	5
P6KE160(C)A	136.0	5
P6KE170(C)A	145.0	5
P6KE180(C)A	154.0	5
P6KE200(C)A	171.0	5
P6KE220(C)A	185.0	5
P6KE250(C)A	214.0	5
P6KE300(C)A	256.0	5
P6KE350(C)A	300.0	5
P6KE400(C)A	342.0	5
P6KE440(C)A	376.0	5



Part Number	V _{RWM} (V)	I _R (μ A)** @ V _{RWM}
1500 Watt/ms		
DO-201AE		
1.5KE6.8(C)A	5.8	1000
1.5KE7.5(C)A	6.4	500
1.5KE8.2(C)A	7.02	200
1.5KE9.1(C)A	7.78	50
1.5KE10(C)A	8.55	10
1.5KE11(C)A	9.4	5
1.5KE12(C)A	10.2	5
1.5KE13(C)A	11.1	5
1.5KE15(C)A	12.8	5
1.5KE16(C)A	13.6	5
1.5KE18(C)A	15.3	5
1.5KE20(C)A	17.1	5
1.5KE22(C)A	18.8	5
1.5KE24(C)A	20.5	5
1.5KE27(C)A	23.1	5
1.5KE30(C)A	25.6	5
1.5KE33(C)A	28.2	5
1.5KE36(C)A	30.8	5
1.5KE39(C)A	33.3	5
1.5KE43(C)A	36.8	5
1.5KE47(C)A	40.2	5
1.5KE51(C)A	43.6	5
1.5KE56(C)A	47.8	5
1.5KE62(C)A	53.0	5
1.5KE68(C)A	58.1	5
1.5KE75(C)A	64.1	5
1.5KE82(C)A	70.1	5
1.5KE91(C)A	77.8	5
1.5KE100(C)A	85.5	5
1.5KE110(C)A	94.0	5
1.5KE120(C)A	102.0	5
1.5KE130(C)A	111.0	5
1.5KE150(C)A	128.0	5
1.5KE160(C)A	136.0	5
1.5KE170(C)A	145.0	5
1.5KE180(C)A	154.0	5
1.5KE200(C)A	171.0	5
1.5KE220(C)A	185.0	5
1.5KE250(C)A	214.0	5
1.5KE300(C)A	256.0	5
1.5KE350(C)A	300.0	5
1.5KE400(C)A	342.0	5
1.5KE440(C)A	376.0	5

**For Bi-directional parts with V_{RWM} < 10V, the I_R MAX limit is doubled.

Ultra Fast Rectifiers (Surface-Mount, Through-Hole and Axial Lead)

Part Number	V _{RRM} (V)	I ₀ (A)	T _{RR} (nS)	Part Number
1 Amp Ultra Fast Rectifiers				
SMA				
ES1A	50	1.0	15	
ES1B	100	1.0	15	
ES1C	150	1.0	15	
ES1D	200	1.0	15	
DO-41 Shared Values				SMA
UF4001	50	1.0	50	
UF4002	100	1.0	50	
UF4003	200	1.0	50	
UF4004	400	1.0	50	
UF4005	600	1.0	75	
UF4006	800	1.0	75	
UF4007	1000	1.0	75	
EGP10A	50	1.0	50	EGF1A**
EGP10B	100	1.0	50	EGF1B**
EGP10C	150	1.0	50	EGF1C**
EGP10D	200	1.0	50	EGF1D**
EGP10F	300	1.0	50	
EGP10G	400	1.0	50	
EGP10J	600	1.0	75	
EGP10K	800	1.0	75	



SMA

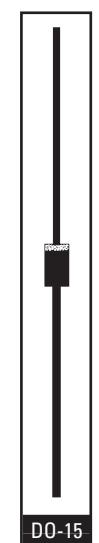


DO-41

Part Number	V _{RRM} (V)	I ₀ (A)	T _{RR} (nS)
2 Amp Ultra Fast Rectifiers			
SMB			



SMB



DO-15

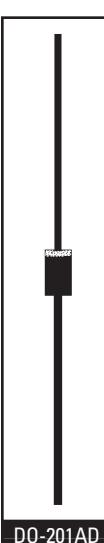
Part Number	V _{RRM} (V)	I ₀ (A)	T _{RR} (nS)
DO-15			
EGP20A			

Part Number	V _{RRM} (V)	I ₀ (A)	T _{RR} (nS)
EGP20B	100	2.0	50
EGP20C	150	2.0	50
EGP20D	200	2.0	50
EGP20F	300	2.0	50
EGP20G	400	2.0	50
EGP20J	600	2.0	75
EGP20K	800	2.0	75

Part Number	V _{RRM} (V)	I ₀ (A)	T _{RR} (nS)
3 Amp Ultra Fast Rectifiers			
SMC			
ES3A	50	3.0	20
ES3B	100	3.0	20
ES3C	150	3.0	20
ES3D	200	3.0	20
DO-201AD			
EGP30A ⁽³⁾	50	3.0	50
EGP30B ⁽³⁾	100	3.0	50
EGP30C ⁽³⁾	150	3.0	50
EGP30D ⁽³⁾	200	3.0	50
EGP30F ⁽³⁾	300	3.0	50
EGP30G ⁽³⁾	400	3.0	50
EGP30J ⁽³⁾	600	3.0	75
EGP30K ⁽³⁾	800	3.0	75

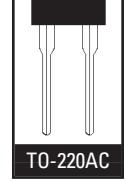
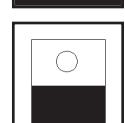
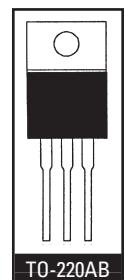


SMC



DO-201AD

Part Number	V _{RRM} (V)	I ₀ (A)	T _{RR} (nS)	Part Number
16 Amp Ultra Fast Rectifiers				
TO-220AB (Dual)				
Shared Values (Single)				
FEP16AT ^{(1) (3)}	50	16.0	35	FES16AT ^{(2) (3)}
FEP16BT ^{(1) (3)}	100	16.0	35	FES16BT ^{(2) (3)}
FEP16CT ^{(1) (3)}	150	16.0	35	FES16CT ^{(2) (3)}
FEP16DT ^{(1) (3)}	200	16.0	35	FES16DT ^{(2) (3)}
FEP16FT ^{(1) (3)}	300	16.0	50	FES16FT ^{(2) (3)}
FEP16GT ^{(1) (3)}	400	16.0	50	FES16GT ^{(2) (3)}
FEP16HT ^{(1) (3)}	500	16.0	50	FES16HT ^{(2) (3)}
FEP16JT ^{(1) (3)}	600	16.0	50	FES16JT ^{(2) (3)}



** Advance information; please contact Marketing for updated information.

⁽¹⁾ Negative center tap configuration available, add "A" suffix (ex. FEP16ATA). Doubler configuration available, add "D" suffix (ex. FEP16ATD).

⁽²⁾ Negative case configuration available, add "R" suffix (ex. FES16ATR).

⁽³⁾ GP Indicates glass passivated junction.

Fast Rectifiers (Surface-Mount and Axial Lead)

Part Number	V _{RRM} (V)	I ₀ (A)	T _{RR} (nS)
1 Amp Fast Rectifiers			
DO-41			
1N4933	50	1.0	150
1N4934	100	1.0	150
1N4935	200	1.0	150
1N4936	400	1.0	150
1N4937	600	1.0	150
1N4933GP ^①	50	1.0	150
1N4934GP ^①	100	1.0	150
1N4935GP ^①	200	1.0	150
1N4936GP ^①	400	1.0	150
1N4937GP ^①	600	1.0	150

^①GP Indicates glass passivated junction.

Part Number	V _{RRM} (V)	I ₀ (A)	T _{RR} (nS)
1 Amp Fast Rectifiers			
SMA			
RS1A	50	1.0	150
RS1B	100	1.0	150
RS1D	200	1.0	150
RS1G	400	1.0	150
RS1J	600	1.0	250
RS1K	800	1.0	500
RS1M	1000	1.0	500
SMA			
RGF1A**	50	1.0	150
RGF1B**	100	1.0	150
RGF1D**	200	1.0	150
RGF1G**	400	1.0	150
RGF1J**	600	1.0	250
RGF1K**	800	1.0	500
RGF1M**	1000	1.0	500
DO-41			
RGP10A	50	1.0	150
RGP10B	100	1.0	150
RGP10D	200	1.0	150
RGP10G	400	1.0	150
RGP10J	600	1.0	250
RGP10K	800	1.0	500
RGP10M	1000	1.0	500



DO-41

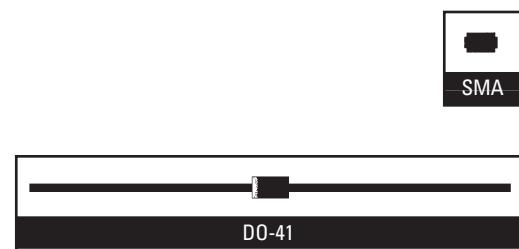
** Advance information; please contact Marketing for updated information.

Glass Passivated Junction Rectifiers (Surface-Mount and Axial Lead)

Part Number	V_{RRM} (V)	I_0 (A)	Part Number
1 Amp Glass Passivated Junction Rectifiers			
DO-41	Shared Values		SMA
1N4001GP ^①	50	1.0	S1A
1N4002GP ^①	100	1.0	S1B
1N4003GP ^①	200	1.0	S1D
1N4004GP ^①	400	1.0	S1G
1N4005GP ^①	600	1.0	S1J
1N4006GP ^①	800	1.0	S1K
1N4007GP ^①	1000	1.0	S1M
1N4933GP ^①	50	1.0	
1N4934GP ^①	100	1.0	
1N4935GP ^①	200	1.0	
1N4936GP ^①	400	1.0	
1N4937GP ^①	600	1.0	
DO-41	Shared Values		SMA
RGP10A	50	1.0	RGF1A**
RGP10B	100	1.0	RGF1B**
RGP10D	200	1.0	RGF1D**
RGP10G	400	1.0	RGF1G**
RGP10J	600	1.0	RGF1J**
RGP10K	800	1.0	RGF1K**
RGP10M	1000	1.0	RGF1M**
EGP10A	50	1.0	EGF1A**
EGP10B	100	1.0	EGF1B**
EGP10C	150	1.0	EGF1C**
EGP10D	200	1.0	EGF1D**
EGP10F	300	1.0	
EGP10G	400	1.0	
EGP10J	600	1.0	
EGP10K	800	1.0	
SMA	Shared Values		SMA
ES1A	50	1.0	
ES1B	100	1.0	
ES1C	150	1.0	
ES1D	200	1.0	
RS1A	50	1.0	GF1A**
RS1B	100	1.0	GF1B**
RS1D	200	1.0	GF1D**
RS1G	400	1.0	GF1G**
RS1J	600	1.0	GF1J**
RS1K	800	1.0	GF1K**
RS1M	1000	1.0	GF1M**

^① GP Indicates glass passivated junction.

** Advance information; please contact Marketing for updated information.

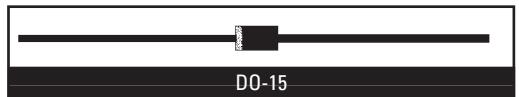
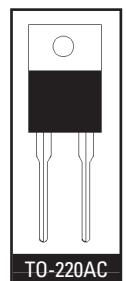
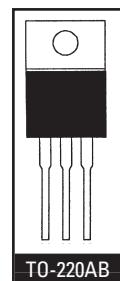


Glass Passivated Junction Rectifiers (Surface-Mount, Through-Hole and Axial Lead)

Part Number	V _{RRM} (V)	I ₀ (A)	Part Number
2 Amp Glass Passivated Junction Rectifiers			
DO-15	Shared Values		SMB
EGP20A	50	2.0	S2A
EGP20B	100	2.0	S2B
EGP20C	150	2.0	
EGP20D	200	2.0	S2D
EGP20F	300	2.0	
EGP20G	400	2.0	S2G
EGP20J	600	2.0	S2J
EGP20K	800	2.0	S2K
	1000	2.0	S2M
	50	2.0	ES2A
	100	2.0	ES2B
	150	2.0	ES2C
	200	2.0	ES2D

Part Number	V _{RRM} (V)	I ₀ (A)	Part Number
3 Amp Glass Passivated Junction Rectifiers			
DO-201AD	Shared Values		SMC
EGP30A	50	3.0	S3A
EGP30B	100	3.0	S3B
EGP30C	150	3.0	
EGP30D	200	3.0	S3D
EGP30F	300	3.0	
EGP30G	400	3.0	S3G
EGP30J	600	3.0	S3J
EGP30K	800	3.0	S3K
	1000	3.0	S3M
	50	3.0	ES3A
	100	3.0	ES3B
	150	3.0	ES3C
	200	3.0	ES3D

Part Number	V _{RRM} (V)	I ₀ (A)	Part Number
16 Amp Glass Passivated Junction Rectifiers			
TO-220AB (Duals)	Shared Values		TO-220AC (Singles)
FEPA16AT ^①	50	16.0	FES16AT ^②
FEPA16BT ^①	100	16.0	FES16BT ^②
FEPA16CT ^①	150	16.0	FES16CT ^②
FEPA16DT ^①	200	16.0	FES16DT ^②
FEPA16FT ^①	300	16.0	FES16FT ^②
FEPA16GT ^①	400	16.0	FES16GT ^②
FEPA16HT ^①	500	16.0	FES16HT ^②
FEPA16JT ^①	600	16.0	FES16JT ^②

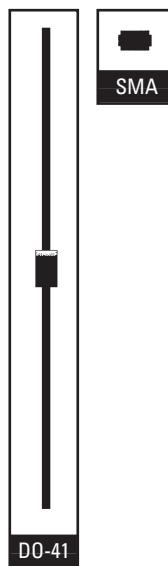


^① Negative center tap configuration available, add "A" suffix (ex. FEP16ATA). Doubler configuration available, add "D" suffix (ex. FEP16ATD).

^② Negative case configuration available, add "R" suffix (ex. FES16ATR).

General Purpose Rectifiers (Surface-Mount and Axial Lead)

Part Number	V_{RRM} (V)	I_0 (A)	Part Number
1 Amp General Purpose Rectifiers			
DO-41	Shared Values		SMA
1N4001	50	1.0	S1A
1N4002	100	1.0	S1B
1N4003	200	1.0	S1D
1N4004	400	1.0	S1G
1N4005	600	1.0	S1J
1N4006	800	1.0	S1K
1N4007	1000	1.0	S1M
DO-41	Shared Values		SMA
1N4001GP ^①	50	1.0	GF1A**
1N4002GP ^①	100	1.0	GF1B**
1N4003GP ^①	200	1.0	GF1D**
1N4004GP ^①	400	1.0	GF1G**
1N4005GP ^①	600	1.0	GF1J**
1N4006GP ^①	800	1.0	GF1K**
1N4007GP ^①	1000	1.0	GF1M**



DO-41

Part Number	V_{RRM} (V)	I_0 (A)
1.5 Amp General Purpose Rectifiers		
DO-15		
1N5391	50	1.5
1N5392	100	1.5
1N5393	200	1.5
1N5394	300	1.5
1N5395	400	1.5
1N5396	500	1.5
1N5397	600	1.5
1N5398	800	1.5
1N5399	1000	1.5



DO-15

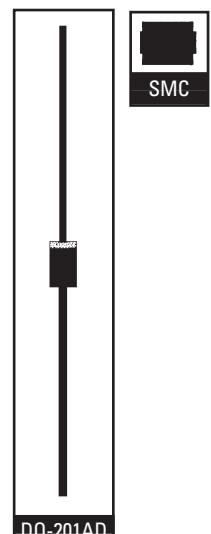
^①GP Indicates glass passivated junction.

Part Number	V_{RRM} (V)	I_0 (A)
1.5 Amp General Purpose Rectifiers		
SMB		
S2A	50	2.0
S2B	100	2.0
S2D	200	2.0
S2G	400	2.0
S2J	600	2.0
S2K	800	2.0
S2M	1000	2.0



SMB

Part Number	V_{RRM} (V)	I_0 (A)	Part Number
3 Amp General Purpose Rectifiers			
DO-201AD	Shared Values		SMC
1N5400	50	3.0	S3A
1N5401	100	3.0	S3B
1N5402	200	3.0	S3D
1N5403	300	3.0	
1N5404	400	3.0	S3G
1N5405	500	3.0	
1N5406	600	3.0	S3J
1N5407	800	3.0	S3K
1N5408	1000	3.0	S3M



DO-201AD

** Advance information; please contact Marketing for updated information.

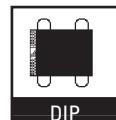
Bridge Rectifiers (Surface-Mount and Through-Hole)

Part Number	V _{RRM} (V)	I ₀ (A)
.5 Amp Bridge Rectifiers		
SOIC-4		
MB1S	100	0.5
MB2S	200	0.5
MB4S	400	0.5
MB6S	600	0.5
MB8S	800	0.5

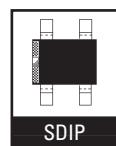


SOIC-4

Part Number	V _{RRM} (V)	I ₀ (A)	Part Number
1.5 Amp Bridge Rectifiers			
DIP		Shared Values	
DF005M	50	1.5	DF005S
DF01M	100	1.5	DF01S
DF02M	200	1.5	DF02S
DF04M	400	1.5	DF04S
DF06M	600	1.5	DF06S
DF08M	800	1.5	DF08S
DF10M	1000	1.5	DF10S

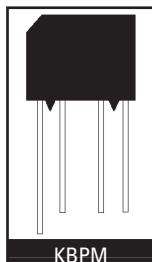


DIP

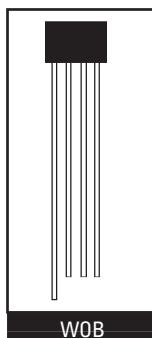


SDIP

Part Number	V _{RRM} (V)	I ₀ (A)	Part Number
1.5 Amp Bridge Rectifiers			
KBPM Shared Values WOB			
KBP005M 3N246	50	1.5	W005G
KBP01M 3N247	100	1.5	W01G
KBP02M 3N248	200	1.5	W02G
KBP04M 3N249	400	1.5	W04G
KBP06M 3N250	600	1.5	W06G
KBP08M 3N251	800	1.5	W08G
KBP10M 3N252	1000	1.5	W10G



KBPM



WOB

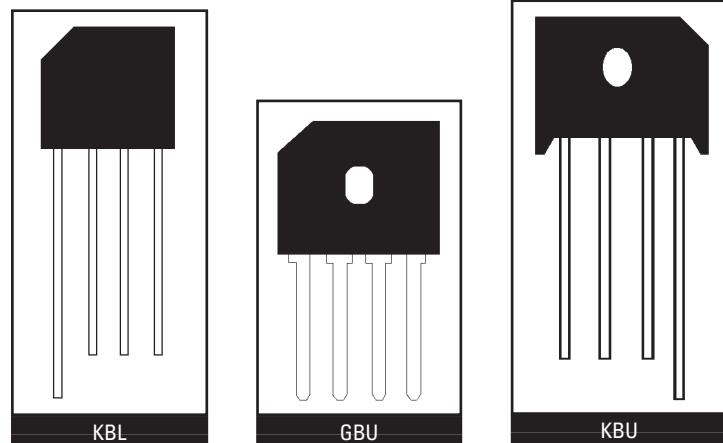
Part Number	V _{RRM} (V)	I ₀ (A)	Part Number
2 Amp Bridge Rectifiers			
KBPM Shared Values WOB			
2KBP005M 3N253	50	2.0	2W005G
2KBP01M 3N254	100	2.0	2W01G
2KBP02M 3N255	200	2.0	2W02G
2KBP04M 3N256	400	2.0	2W04G
2KBP06M 3N257	600	2.0	2W06G
2KBP08M 3N258	800	2.0	2W08G
2KBP10M 3N259	1000	2.0	2W10G

Bridge Rectifiers (Through-Hole)

Part Number	V _{RRM} (V)	I ₀ (A)	Part Number
4 Amp Bridge Rectifiers			
KBL			
KBL005	50	4.0	
KBL01	100	4.0	
KBL02	200	4.0	
KBL04	400	4.0	
KBL06	600	4.0	
KBL08	800	4.0	
KBL10	1000	4.0	
GBU	Shared Values	KBU	
GBU4A	50	4.0	KBU4A
GBU4B	100	4.0	KBU4B
GBU4D	200	4.0	KBU4D
GBU4G	400	4.0	KBU4G
GBU4J	600	4.0	KBU4J
GBU4K	800	4.0	KBU4K
GBU4M	1000	4.0	KBU4M

Part Number	V _{RRM} (V)	I ₀ (A)	Part Number
6 Amp Bridge Rectifiers			
GBU		Shared Values	KBU
GBU6A	50	6.0	KBU6A
GBU6B	100	6.0	KBU6B
GBU6D	200	6.0	KBU6D
GBU6G	400	6.0	KBU6G
GBU6J	600	6.0	KBU6J
GBU6K	800	6.0	KBU6K
GBU6M	1000	6.0	KBU6M

Part Number	V _{RRM} (V)	I ₀ (A)	Part Number
8 Amp Bridge Rectifiers			
GBU			
GBU8A	50	8.0	KBU8A
GBU8B	100	8.0	KBU8B
GBU8D	200	8.0	KBU8D
GBU8G	400	8.0	KBU8G
GBU8J	600	8.0	KBU8J
GBU8K	800	8.0	KBU8K
	1000	8.0	KBU8M



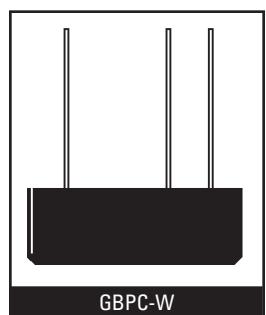
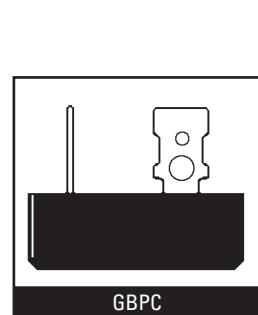
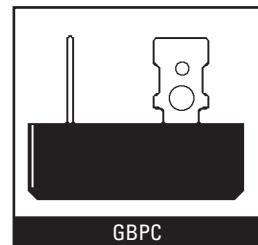
Bridge Rectifiers (Through-Hole, continued)

Part Number	V_{RRM} (V)	I_0 (A)	Part Number
12 Amp Bridge Rectifiers			
GBPC	Shared Values	GBPC-W	
GBPC12005	50	12.0	GBPC125005W
GBPC1201	100	12.0	GBPC1201W
GBPC1202	200	12.0	GBPC1202W
GBPC1204	400	12.0	GBPC1204W
GBPC1206	600	12.0	GBPC1206W
GBPC1208	800	12.0	GBPC1208W
GBPC1210	1000	12.0	GBPC1210W

Part Number	V_{RRM} (V)	I_0 (A)	Part Number
15 Amp Bridge Rectifiers			
GBPC	Shared Values	GBPC-W	
GBPC15005	50	15.0	GBPC15005W
GBPC1501	100	15.0	GBPC1501W
GBPC1502	200	15.0	GBPC1502W
GBPC1504	400	15.0	GBPC1504W
GBPC1506	600	15.0	GBPC1506W
GBPC1508	800	15.0	GBPC1508W
GBPC1510	1000	15.0	GBPC1510W

Part Number	V_{RRM} (V)	I_0 (A)	Part Number
25 Amp Bridge Rectifiers			
GBPC	Shared Values	GBPC-W	
GBPC25005	50	25.0	GBPC25005W
GBPC2501	100	25.0	GBPC2501W
GBPC2502	200	25.0	GBPC2502W
GBPC2504	400	25.0	GBPC2504W
GBPC2506	600	25.0	GBPC2506W
GBPC2508	800	25.0	GBPC2508W
GBPC2510	1000	25.0	GBPC2510W

Part Number	V_{RRM} (V)	I_0 (A)	Part Number
35 Amp Bridge Rectifiers			
GBPC	Shared Values	GBPC-W	
GBPC35005	50	35.0	GBPC35005W
GBPC3501	100	35.0	GBPC3501W
GBPC3502	200	35.0	GBPC3502W
GBPC3504	400	35.0	GBPC3504W
GBPC3506	600	35.0	GBPC3506W
GBPC3508	800	35.0	GBPC3508W
GBPC3510	1000	35.0	GBPC3510W1



Schottky Rectifiers (Surface-Mount and Axial Lead)

Part Number	Configuration	BV (V) Min	I _R @ V _R		V _F @ I _F		Package
			I _R (μ A) Max	V _R (V)	V _F (V) Max	I _F (A)	
Schottky Rectifiers							
MBR0520L	Single	20	75	20	0.385	0.5	SOD-123
MBR0540	Single	40	20	40	0.510	0.5	SOD-123
FMKA140	Single	40	1000	40	0.600	1.0	SMA
MBRS130L	Single	30	1000	30	0.395	1.0	SMB
MBRS140	Single	40	1000	40	0.600	1.0	SMB
MBRS320	Single	20	2000	20	0.500	3.0	SMC
MBRS340	Single	40	2000	40	0.525	3.0	SMC

Part Number	V _{RRM} (V)	I ₀ (A)	V _F (V)
1-2 Amp Schottky Barrier Rectifiers			
SMB			
SS22	20	2.0	0.50
SS23	30	2.0	0.50
SS24	40	2.0	0.50
SS25	50	2.0	0.70
SS26	60	2.0	0.70
SS28	80	2.0	0.85
SS29	90	2.0	0.85
S210	100	2.0	0.85

Part Number	Configuration	BV (V) Min	I _R @ V _R		V _F @ I _F			
			I _R (μ A) Max	V _R (V)	V _F (V) Max	I _F (A)		
Multi-Chip Schottky Rectifier								
SO-8								
FNK340	Dual MBRS 340	40	2.0	40	0.525	3.0		

Part Number	V _{RRM} (V)	I ₀ (A)	V _F (V)	Part Number
1 Amp Schottky Barrier Rectifiers				
DO-41 Shared Values SMA				
1N5817	20	1.0	0.45	
1N5818	30	1.0	0.55	
1N5819	40	1.0	0.60	
SB120	20	1.0	0.50	SS12
SB130	30	1.0	0.50	SS13
SB140	40	1.0	0.50	SS14
SB150	50	1.0	0.70	SS15
SB160	60	1.0	0.70	SS16
SB180	80	1.0	0.85	SS18
	90	1.0	0.85	SS19
SB1100	100	1.0	0.85	S100



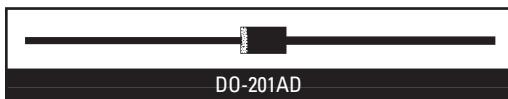
DO-41



SOD-123



SO-8



DO-201AD



SMA



SMB



SMC

Part Number	V _{RRM} (V)	I ₀ (A)	V _F (V)	Part Number
3 Amp Schottky Barrier Rectifiers				
DO-201AD Shared Values SMC				
1N5820	20	3.0	0.475	
1N5821	30	3.0	0.50	
1N5822	40	3.0	0.525	
SB320	20	3.0	0.50	SS32
SB330	30	3.0	0.50	SS33
SB340	40	3.0	0.50	SS34
SB350	50	3.0	0.75	SS35
SB360	60	3.0	0.75	SS36
SB380	80	3.0	0.85	SS38
	90	3.0	0.85	SS39
SB3100	100	3.0	0.85	S310

Part Number	V _{RRM} (V)	I ₀ (A)	V _F (V)
5 Amp Schottky Barrier Rectifiers			
DO-201AD			
SB520	20	5.0	0.55
SB530	30	5.0	0.55
SB540	40	5.0	0.55
SB550	50	5.0	0.67
SB560	60	5.0	0.67
SB580	80	5.0	0.85
SB5100	100	5.0	0.85

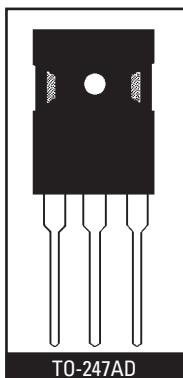
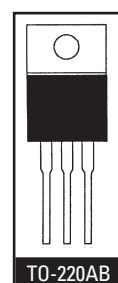
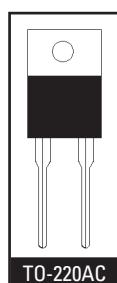
Note: Parts highlighted in red are new since June, 1998.

Schottky Rectifiers (Through-Hole)

Part Number	Config.	V _{RRM} (V)	I ₀ (A)	V _F (V)
7.5–16 Amp Schottky Barrier Rectifiers				
TO-220AC				
MBR735	Single	35	7.5	0.84
MBR745	Single	45	7.5	0.84
MBR750	Single	50	7.5	0.75
MBR760	Single	60	7.5	0.75
MBR1035	Single	35	10.0	0.84
MBR1045	Single	45	10.0	0.84
MBR1050	Single	50	10.0	0.80
MBR1060	Single	60	10.0	0.80
MBR1635	Single	35	16.0	0.63
MBR1645	Single	45	16.0	0.63
MBR1650	Single	50	16.0	0.75
MBR1660	Single	60	16.0	0.75

Part Number	Config.	V _{RRM} (V)	I ₀ (A)	V _F (V)
15–30 Amp Schottky Barrier Rectifiers				
TO-220AB				
MBR1535CT	Dual	35	15.0	0.84
MBR1545CT	Dual	45	15.0	0.84
MBR1550CT	Dual	50	15.0	0.75
MBR1560CT	Dual	60	15.0	0.75
MBR2035CT	Dual	35	20.0	0.84
MBR2045CT	Dual	45	20.0	0.84
MBR2050CT	Dual	50	20.0	0.95
MBR2060CT	Dual	60	20.0	0.95
MBR2535CT	Dual	35	30.0	0.82
MBR2545CT	Dual	45	30.0	0.82
MBR2550CT	Dual	50	30.0	0.75
MBR2560CT	Dual	60	30.0	0.75

Part Number	Config.	V _{RRM} (V)	I ₀ (A)	V _F (V)
30–40 Amp Schottky Barrier Rectifiers				
TO-247AD				
MBR3035PT	Dual	35	30.0	0.76
MBR3045PT	Dual	45	30.0	0.76
MBR3050PT	Dual	50	30.0	0.75
MBR3060PT	Dual	60	30.0	0.75
MBR4035PT	Dual	35	40.0	0.70
MBR4045PT	Dual	45	40.0	0.70
MBR4050PT	Dual	50	40.0	0.72
MBR4060PT	Dual	60	40.0	0.72



Ordering Information

Package Code	Package (Case Outline)	Package Method	Standard Quantity (pcs)	Description	Reel Diameter (inch)	Tape Width (mm)
32	SuperSOT-3	Tape & Reel	10,000	MOSFET	13	8
32	SuperSOT-3	Tape & Reel	3,000	MOSFET	7	8
37	TO-220	Bulk	300	MOSFET, Bipolar	n/a	n/a
37	TO-220	Rail/Tube	45	MOSFET, Bipolar	n/a	n/a
45	TO-263/D ² PAK	Tape & Reel	800	MOSFET, Bipolar	13	24
45	TO-263/D ² PAK	Rail/Tube	45	MOSFET, Bipolar	n/a	n/a
47	SOT-223	Tape & Reel	2,500	MOSFET, Bipolar	13	12
47	SOT-223	Tape & Reel	500	MOSFET, Bipolar	7	12
49	SOT-23 (TO-236AB)	Tape & Reel	10,000	MOSFET, Bipolar	13	8
49	SOT-23 (TO-236AB)	Tape & Reel	3,000	MOSFET, Bipolar	7	8
76	SC70-6	Tape & Reel	10,000	MOSFET, Digital Fet, Loadswitches	13	8
76	SC70-6	Tape & Reel	3,000	MOSFET, Digital Fet, Loadswitches	7	8
92	TO-92	Tape & Reel	2,000	MOSFET, Bipolar	14	18
92	TO-92	Ammo Box	2,000	MOSFET, Bipolar	n/a	18
92	TO-92	Bulk	1,500-3,500/box	MOSFET, Bipolar	n/a	n/a
31, 33	SuperSOT-6	Tape & Reel	10,000	MOSFET, Loadswitches, Dual Bipolar	13	8
31, 33	SuperSOT-6	Tape & Reel	3,000	MOSFET, Loadswitches, Dual Bipolar	7	8
34, 35	SuperSOT-8	Tape & Reel	3,000	MOSFET	13	12
34, 35	SuperSOT-8	Tape & Reel	500	MOSFET	7	12
93, 95, 99	TO-226	Tape & Reel	2,000	Small Signal Transistor	14	18
93, 95, 99	TO-226	Ammo Box	2,000	Small Signal Transistor	n/a	18
93, 95, 99	TO-226	Bulk	2,000	Small Signal Transistors	n/a	n/a
AA	DPAK	Tape & Reel (TM)	2,500	Power Transistor, MOSFET, IGBT, Industry	13	16±0.2
AA	DPAK	Tape & Reel (TF)	2,000	Power Transistor, MOSFET, IGBT, Industry	13	16
AB	TO-263/D ² PAK	Tape & Reel	800	Power Transistor, MOSFET, IGBT	13	24±0.3
AC	IPAK	Bulk	4,000	Power Transistor, MOSFET	n/a	n/a
AC	IPAK	Tube	70	Power Transistor, MOSFET	n/a	n/a
AD	I ² PAK	Tube	50	Power Transistor, MOSFET	n/a	n/a
AE	TO-220	Bulk	1,200	Power Transistor, MOSFET	n/a	n/a
AE	TO-220	Tube	50	Industry, IGBT	n/a	n/a
AF	TO-3P	Tube	30	Power Transistor, MOSFET, FRD, IGBT	n/a	n/a
AG	TO-3P(F/P)	Tube	30	Power Transistor, MOSFET, FRD, IGBT	n/a	n/a
AH	8DIP-300	Tube	50	SPS, Industry	n/a	n/a
AJ	14DIP	Tube	25	Industry	n/a	n/a
AK	8SOP-225	Tube	90	MOSFET, Small Signal Transistor, Industry	n/a	n/a
AK	8SOP-225	Tape & Reel (TF)	3,000	MOSFET, Small Signal Transistor, Industry	13	12
AL	14SOP	Tape & Reel (TF)	3,000	Industry	13	16
AM	TO-92	Bulk	2,000	Small Signal Transistor, MOSFET, Industry	n/a	n/a
AM	TO-92	Tape & Reel	2,000	Small Signal Transistor, MOSFET, Industry	14	36
AN	TO-126	Bulk	500	Power Transistor	n/a	n/a
AN	TO-126	Tube	60	Power Transistor	n/a	n/a
AP	SOT-89	Tape & Reel	4,000	Small Signal Transistor	13	12
AQ	TO-220(F/P)	Bulk	200	Power Transistor, MOSFET	n/a	n/a
AQ	TO-220(F/P)	Tube	50	Power Transistor, MOSFET, FRD, IGBT	n/a	n/a
AR	TO-264	Tube	25	Power Transistor, MOSFET, IGBT	n/a	n/a

Bold = Preferred package method

Ordering Information (continued)

Package Code	Package (Case Outline)	Package Method	Standard Quantity (pcs)	Description	Reel Diameter (inch)	Tape Width (mm)
AS	TO-92L	Bulk	1,000	Small Signal Transistor, Industry	n/a	n/a
AS	TO-92L	Tape & Reel	2,000	Small Signal Transistor, Industry	14	41
AT	TO-92S	Bulk	2,000	Small Signal Transistor	n/a	n/a
AT	TO-92S	Tape & Reel	3,000	Small Signal Transistor	14	35
AU	SOT-23	Bulk	20,000	Small Signal Transistor, MOSFET	n/a	n/a
AU	SOT-23	Tape & Reel	3,000	Small Signal Transistor, MOSFET	13	8±0.3
AV	SOT-223	Tape & Reel	4,000	MOSFET	13	12
AW	TO-220(F/P)4	Bulk	200	SPS, Industry	n/a	n/a
AW	TO-220(F/P)4	Tube	50	SPS, Industry	n/a	n/a
AZ	TO-220-5L	Tube	50	SPS	n/a	n/a
BA	TO-3PF-5L	Tube	30	SPS	n/a	n/a
BC	TO-3P(5)	Tube	30	SPS	n/a	n/a
BD*	7-PM-AA (Molding)	Bulk	60	IGBT	n/a	n/a
BE*	7-PM-BB (Molding)	Bulk	40	IGBT	n/a	n/a
BF*	7-PM-EA (Molding)	Bulk	32	IGBT	n/a	n/a
BG*	17-PM-BA (Econo-PAK)	Bulk	60	IGBT	n/a	n/a
BH*	17-PM-CA (Econo-PAK)	Bulk	40	IGBT	n/a	n/a
BJ*	21-PM-AA (Complex)	Bulk	48	IGBT	n/a	n/a
BK*	21-PM-BA (Complex)	Bulk	40	IGBT	n/a	n/a
D1	DO-41	Tape & Reel	5,000	Axial Lead, Diodes, Rectifiers, Zeners	13	64
D2	DO-35	Bulk	1,000	Axial Lead, Diodes, Zeners	n/a	n/a
D6	SOD123	Tape & Reel	3,000	Schottky Diodes; Surface-Mount	7	8
D6	SOD123	Tape & Reel	10,000	Schottky Diodes; Surface-Mount	13	8
MA	SMA (DO-214AC)	Tape & Reel	5,000	Schottky Rectifiers; Surface-Mount	13	12
MB	SMB (DO-214AA)	Tape & Reel	3,000	Schottky Rectifiers; Surface-Mount	13	12
MC	SMC (DO-214AB)	Tape & Reel	3,000	Schottky Rectifiers; Surface-Mount	13	16
N1	GBPC	Box	500	Bridge Rectifiers; Through-Hole	n/a	n/a
N2	GBPC-W	Box	500	Bridge Rectifiers; Through-Hole	n/a	n/a
N3	SOIC-4	Tape & Reel	2,500	Bridge Rectifiers; Surface-Mount	13	12
P1	DO-41	Tape & Reel	5,000	TVS, Rectifiers, & Schottky; Axial Leaded	13	64
P2	DO-15	Tape & Reel	4,000	TVS, Rectifiers, & Schottky; Axial Leaded	13	64
P3	DO-201AD, AE	Tape & Reel	1,250	TVS, Rectifiers, & Schottky; Axial Leaded	13	64
P5	SMA (DO-214AC)	Tape & Reel	7,500	TVS, Rectifiers, & Schottky; Surface-Mount	13	12
P6	SMB (DO-214AA)	Tape & Reel	3,000	TVS, Rectifiers, & Schottky; Surface-Mount	13	12
P7	SMC (DO-214AB)	Tape & Reel	3,000	TVS, Rectifiers, & Schottky; Surface-Mount	13	16
P8	TO-220AB	Tube	2,000	Schottky Rectifiers; Through-Hole	n/a	n/a
P9	TO-220AC	Tube	2,000	Schottky Rectifiers; Through-Hole	n/a	n/a
PS	D2-A	Tape & Reel	3,000	Axial Lead, 5 Watt Zeners	13	12
R1	KBPM	Tube	1,200	Bridge Rectifiers; Through-Hole	n/a	n/a
R2	GBU	Tube	800	Bridge Rectifiers; Through-Hole	n/a	n/a
R3	DIP	Tube	5,000	Bridge Rectifiers; Through-Hole	n/a	n/a
R4	SDIP	Tape & Reel	1,500	Bridge Rectifiers; Surface-Mount	13	16
R5	WOB	Box	1,000	Bridge Rectifiers; Through-Hole	n/a	n/a
R6	KBL	Box	2,000	Bridge Rectifiers; Through-Hole	n/a	n/a
R7	KBU	Box	2,000	Bridge Rectifiers; Through-Hole	n/a	n/a

Bold = Preferred package method

* = Tentative code

Ordering Information (continued)

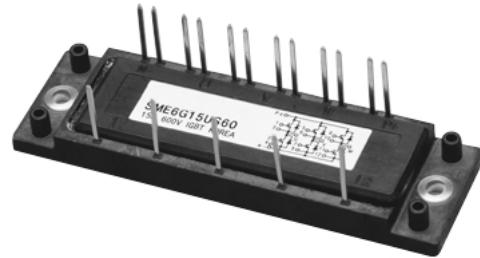
Package Code	Package (Case Outline)	Package Method	Standard Quantity (pcs)	Description	Reel Diameter (inch)	Tape Width (mm)
R8	TO-247AD (TO-3P)	Tube	1,500	Schottky Rectifiers; Through-Hole	n/a	n/a
S1	SO-8	Tape & Reel	2,500	MOSFET	13	12
S1	SO-8	Tape & Reel	500	MOSFET	7	12
S1	SO-8	Rail/Tube	95	MOSFET	n/a	n/a
S3	SOIC-16	Tape & Reel	2,500	MOSFET	13	16
S3	SOIC-16	Rail/Tube	45	MOSFET	n/a	n/a

Bold = Preferred package method

Module IGBT Photos



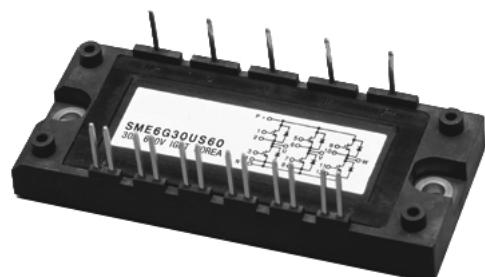
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17PM-BA



7PM-BB



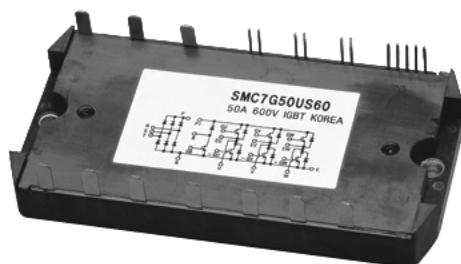
17PM-CA



7PM-EA



21PM-AA



21PM-BA

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