



IGBT and Rectifier Selection Guide

February 2002

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Products	BVCES Min (V)*	IC@ 100°C (A)	VCE (sat) Typ (V)	tf Typ (ns)	Short Circuit Rated	Built-In Diode	Primary Applications
Discrete IGBTs							
SO-8							
FGS15N40L	400	130	4.5	1500	No	No	Camera Strobe
SOT-227							
HGT1N30N60A4D	600	60	1.8	38	No	Yes	Power Conversion (SMPS Series)
HGT1N40N60A4D		63	1.7	35	No	Yes	Power Conversion (SMPS Series)
TO-220							
HGTP3N60C3	600	3	1.65	80	Yes	No	Motor Control
HGTP3N60C3D		3	1.65	80	Yes	Yes	Motor Control
SGP6N60UF		3	2.1	70	No	No	Motor Control; Power Conversion
SGP6N60UFD		3	2.1	70	No	Yes	Motor Control; Power Conversion
HGTP3N60B3		3.5	1.8	70	Yes	No	Motor Control; Power Conversion
HGTP3N60B3D		3.5	1.8	70	Yes	Yes	Motor Control; Power Conversion
SGP5N60RUF		5	2.2	136	Yes	No	Motor Control; Power Conversion
SGP5N60RUFD		5	2.2	136	Yes	Yes	Motor Control; Power Conversion
SGP13N60UF		6.5	2.1	97	No	No	Motor Control; Power Conversion
SGP13N60UFD		6.5	2.1	97	No	Yes	Motor Control; Power Conversion
HGTP7N60B3		7	1.8	60	Yes	No	Motor Control; Power Conversion
HGTP7N60B3D		7	1.8	60	Yes	Yes	Motor Control; Power Conversion
HGTP7N60C3		7	1.6	80	Yes	No	Motor Control
HGTP7N60C3D		7	1.6	80	Yes	Yes	Motor Control
HGTP3N60A4		8	2	47	No	No	Power Conversion (SMPS Series)
HGTP3N60A4D		8	2	47	No	Yes	Power Conversion (SMPS Series)
SGP10N60RUF		10	2.2	158	Yes	No	Motor Control; Power Conversion
SGP10N60RUFD		10	2.2	158	Yes	Yes	Motor Control; Power Conversion
HGTP12N60B3		12	1.6	62	Yes	No	Motor Control; Power Conversion
HGTP12N60B3D		12	1.6	62	Yes	Yes	Motor Control; Power Conversion
HGTP12N60C3		12	1.65	100	Yes	No	Motor Control
HGTP12N60C3D		12	1.65	100	Yes	Yes	Motor Control
SGP23N60UF		12	2.1	70	No	No	Motor Control; Power Conversion
SGP23N60UFD		12	2.1	70	No	Yes	Motor Control; Power Conversion
HGTP7N60A4		14	1.9	45	No	No	Power Conversion (SMPS Series)
HGTP7N60A4D		14	1.9	45	No	Yes	Power Conversion (SMPS Series)
SGP15N60RUF		15	2.2	118	Yes	No	Motor Control; Power Conversion
FGP30N6S2		20	2	53	No	No	Power Conversion (SMPS Series)
FGP30N6S2D		20	2	53	No	Yes	Power Conversion (SMPS Series)
HGTP20N60B3		20	1.8	70	Yes	No	Motor Control; Power Conversion
HGTP20N60C3		20	1.4	55	Yes	No	Motor Control
SGP20N60RUF		20	2.2	152	Yes	No	Motor Control; Power Conversion
SGP40N60UF		20	2.1	50	No	No	Induction Heating; Motor Control; Power Conversion
HGTP12N60A4		23	2	18	No	No	Power Conversion
HGTP12N60A4D		23	2	18	No	Yes	Power Conversion (SMPS Series)
FGP40N6S2		35	1.9	55	No	No	Power Conversion (SMPS Series)
HGTP20N60A4		40	1.8	32	No	No	Power Conversion (SMPS Series)
HGTP1N120BN	1200	2.7	2.5	226	Yes	No	Motor Control; Power Conversion
HGTP1N120BND		2.7	2.5	226	Yes	Yes	Motor Control; Power Conversion
HGTP1N120CN		3.2	2.05	365	Yes	No	Motor Control
HGTP1N120CND		3.2	2.05	365	Yes	Yes	Motor Control
HGTP2N120BN		5.6	2.45	100	Yes	No	Motor Control; Power Conversion
HGTP2N120BND		5.6	2.45	100	Yes	Yes	Motor Control; Power Conversion
HGTP2N120CN		7	2.05	260	Yes	No	Motor Control
HGTP2N120CND		7	2.05	260	Yes	Yes	Motor Control
HGTP5N120BN		10	2.45	130	Yes	No	Motor Control; Power Conversion
HGTP5N120BND		10	2.45	130	Yes	Yes	Motor Control; Power Conversion
HGTP5N120CN		12	2.1	280	Yes	No	Motor Control
HGTP5N120CND		12	2.1	280	Yes	Yes	Motor Control
HGTP10N120BN		17	2.45	100	Yes	No	Motor Control; Power Conversion
HGTP11N120CN		22	2.1	190	Yes	No	Motor Control

* TC=25°C unless otherwise specified

Products	BVCES Min (V)*	IC@ 100°C (A)	VCE (sat) Typ (V)	tf Typ (ns)	Short Circuit Rated	Built-In Diode	Primary Applications
Discrete IGBTs							
TO-220F							
SGS6N60UF	600	3	2.1	70	No	No	Induction Heating; Motor Control; Power Conversion
SGS6N60UFD		3	2.1	70	No	Yes	Induction Heating; Motor Control; Power Conversion
SGS5N60RUF		5	2.2	136	Yes	No	Motor Control; Power Conversion
SGS5N60RUFD		5	2.2	136	Yes	Yes	Motor Control; Power Conversion
SGS13N60UF		6.5	2.1	97	No	No	Induction Heating; Motor Control; Power Conversion
SGS13N60UFD		6.5	2.1	97	No	Yes	Induction Heating; Motor Control; Power Conversion
SGS10N60RUF		10	2.2	158	Yes	No	Motor Control
SGS10N60RUFD		10	2.2	158	Yes	Yes	Motor Control; Power Conversion
SGS23N60UF		12	2.1	70	No	No	Induction Heating; Motor Control; Power Conversion
SGS23N60UFD		12	2.1	70	No	Yes	Induction Heating; Motor Control; Power Conversion
SGS5N150UF	1500	5	4.7	70	No	No	High Power SMPS
TO-247							
HGTG12N60B3	600	12	1.6	62	Yes	No	Motor Control; Power Conversion
HGTG12N60B3D		12	1.6	62	Yes	Yes	Motor Control; Power Conversion
HGTG12N60C3D		12	1.65	100	Yes	Yes	Motor Control
HGTG7N60A4		14	1.9	45	No	No	Power Conversion (SMPS Series)
HGTG7N60A4D		14	1.9	45	No	Yes	Power Conversion (SMPS Series)
FGH30N6S2		20	2	53	No	No	Power Conversion (SMPS Series)
FGH30N6S2D		20	2	53	No	Yes	Power Conversion (SMPS Series)
HGTG20N60B3		20	1.8	70	Yes	No	Motor Control; Power Conversion
HGTG20N60B3D		20	1.8	70	Yes	No	Motor Control; Power Conversion
HGTG20N60C3		20	1.4	55	Yes	No	Motor Control
HGTG20N60C3D		20	1.4	55	Yes	Yes	Motor Control
HGTG12N60A4		23	2	18	No	No	Power Conversion (SMPS Series)
HGTG12N60A4D		23	2	18	No	Yes	Power Conversion (SMPS Series)
HGTG30N60B3		30	1.45	58	Yes	No	Motor Control; Power Conversion
HGTG30N60B3D		30	1.45	58	Yes	Yes	Motor Control; Power Conversion
HGTG30N60C3		30	1.5	110	Yes	No	Motor Control
HGTG30N60C3D		30	1.5	110	Yes	Yes	Motor Control
FGH40N6S2		35	1.9	55	No	No	Power Conversion (SMPS Series)
FGH40N6S2D		35	1.9	55	No	Yes	Power Conversion (SMPS Series)
HGTG20N60A4		40	1.8	32	No	No	Power Conversion (SMPS Series)
HGTG20N60A4D		40	1.8	32	No	Yes	Power Conversion (SMPS Series)
HGTG40N60B3		40	1.65	50	Yes	No	Motor Control; Power Conversion
HGTG40N60C3		40	1.3	60	Yes	No	Motor Control
FGH50N6S2		60	1.9	50	No	No	Power Conversion (SMPS Series)
FGH50N6S2D		60	1.9	50	No	Yes	Power Conversion (SMPS Series)
HGTG30N60A4		60	1.8	38	No	No	Power Conversion (SMPS Series)
HGTG30N60A4D		60	1.8	38	No	Yes	Power Conversion (SMPS Series)
HGT5A40N60A4D		63	1.7	35	No	Yes	Power Conversion (SMPS Series)
HGTG40N60A4		63	1.7	35	No	No	Power Conversion (SMPS Series)
FGH60N6S2		75	1.9	50	No	No	Power Conversion (SMPS Series)
FGK60N6S2D		75	1.9	50	No	Yes	Power Conversion (SMPS Series)
HGTG5N120BND	1200	10	2.45	130	Yes	Yes	Motor Control; Power Conversion
HGTG5N120CND		12	2.1	280	Yes	Yes	Motor Control
HGTG10N120BN		17	2.45	100	Yes	No	Motor Control; Power Conversion
HGTG10N120BND		17	2.45	100	Yes	Yes	Motor Control; Power Conversion
HGTG11N120CN		22	2.1	190	Yes	No	Motor Control
HGTG11N120CND		22	2.1	190	Yes	Yes	Motor Control
HGTG18N120BN		26	2.45	90	Yes	No	Motor Control; Power Conversion
HGTG18N120BND		26	2.45	90	Yes	Yes	Motor Control; Power Conversion
HGTG20N120CN		30	2.1	220	Yes	No	Motor Control
HGTG20N120CND		30	2.1	220	Yes	Yes	Motor Control
HGTG27N120BN		34	2.45	80	Yes	No	Motor Control; Power Conversion
HGTG30N120CN		40	2.1	180	Yes	No	Motor Control

Products	BVCES Min (V)*	IC@ 100°C (A)	VCE (sat) Typ (V)	tf Typ (ns)	Short Circuit Rated	Built-In Diode	Primary Applications
Discrete IGBTs							
TO-251 (IPAK)							
SGU15N40L	400	130	4.5	1100	No	No	Camera Strobe
SGU20N40L		150	4.5	1500	No	No	Camera Strobe
SGU2N60UF	600	1.2	2.1	95	No	No	Power Conversion
SGU2N60UFD		1.2	2.1	95	No	Yes	Power Conversion
HGTD3N60C3		3	1.65	80	Yes	No	Motor Control
SGU6N60UF		3	2.1	70	No	No	Motor Control; Power Conversion
SGU5N60RUF		5	2.2	136	Yes	No	Motor Control; Power Conversion
TO-252 (DPAK)							
SGR15N40L	400	130	4.5	1100	No	No	Camera Strobe
SGR20N40L		150	4.5	1500	No	No	Camera Strobe
SGR2N60UF	600	1.2	2.1	95	No	No	Power Conversion
SGR2N60UFD		1.2	2.1	95	No	Yes	Power Conversion
HGTD3N60C3S		3	1.65	80	Yes	No	Motor Control
SGR6N60UF		3	2.1	70	No	No	Motor Control; Power Conversion
HGTD3N60B3S		3.5	1.8	70	Yes	No	Motor Control; Power Conversion
SGR5N60RUF		5	2.2	136	Yes	No	Motor Control; Power Conversion
HGTD7N60B3S		7	1.8	60	Yes	No	Motor Control; Power Conversion
HGTD7N60C3S		7	1.6	80	Yes	No	Motor Control
HGTD3N60A4S		8	2	47	No	No	Power Conversion (SMPS Series)
HGTD7N60A4S		14	1.9	45	No	No	Power Conversion (SMPS Series)
HGTD1N120BNS	1200	2.7	2.5	226	Yes	No	Motor Control; Power Conversion
HGTD1N120CNS		3.2	2.05	365	Yes	No	Motor Control
HGTD2N120BNS		5.6	2.45	100	Yes	No	Motor Control; Power Conversion
HGTD2N120CNS		7	2.05	260	Yes	No	Motor Control
TO-262 (I ² PAK)							
HGT1S2N120CN	1200	7	2.05	260	Yes	Yes	Motor Control
TO-263 (D ² PAK)							
HGT1S3N60C3DS	600	3	1.65	80	Yes	Yes	Motor Control
SGW6N60UF		3	2.1	70	No	No	Motor Control; Power Conversion
SGW6N60UFD		3	2.1	70	No	Yes	Motor Control; Power Conversion
SGW5N60RUF		5	2.2	136	Yes	No	Motor Control; Power Conversion
SGW5N60RUF		5	2.2	136	Yes	Yes	Motor Control; Power Conversion
SGW13N60UF		6.5	2.1	97	No	No	Motor Control; Power Conversion
SGW13N60UFD		6.5	2.1	97	No	Yes	Motor Control; Power Conversion
HGT1S7N60B3DS		7	1.8	60	Yes	Yes	Motor Control; Power Conversion
HGT1S7N60B3S		7	1.8	60	Yes	No	Motor Control; Power Conversion
HGT1S7N60C3DS		7	1.6	80	Yes	Yes	Motor Control
HGT1S3N60A4DS		8	2	47	No	Yes	Power Conversion (SMPS Series)
HGT1S3N60A4S		8	2	47	No	No	Power Conversion (SMPS Series)
SGW10N60RUF		10	2.2	158	Yes	No	Motor Control; Power Conversion
SGW10N60RUF		10	2.2	158	Yes	Yes	Motor Control; Power Conversion
HGT1S12N60B3S		12	1.6	62	Yes	No	Motor Control; Power Conversion
HGT1S12N60C3DS		12	1.65	100	Yes	Yes	Motor Control
HGT1S12N60C3S		12	1.65	100	Yes	No	Motor Control
SGW23N60UF		12	2.1	70	No	No	Motor Control; Power Conversion
SGW23N60UFD		12	2.1	70	No	Yes	Motor Control; Power Conversion
HGT1S7N60A4DS		14	1.9	45	No	Yes	Power Conversion (SMPS Series)
HGT1S7N60A4S		14	1.9	45	No	No	Power Conversion (SMPS Series)
SGW15N60RUF		15	2.2	118	Yes	No	Motor Control; Power Conversion
FGB30N6S2		20	2	53	No	No	Power Conversion (SMPS Series)
FGB30N6S2D		20	2	53	No	Yes	Power Conversion (SMPS Series)
HGT1S20N60C3S		20	1.4	98	Yes	No	Motor Control
SGW20N60RUF		20	2.2	152	Yes	No	Motor Control; Power Conversion
HGT1S12N60A4DS		23	2	18	No	Yes	Power Conversion (SMPS Series)

* TC=25°C unless otherwise specified

Products	BVCES Min (V)*	IC@ 100°C (A)	VCE (sat) Typ (V)	tf Typ (ns)	Short Circuit Rated	Built-In Diode	Primary Applications
Discrete IGBTs							
TO-263 (D ² PAK) (continued)							
HGT1S12N60A4S	600	23	2	18	No	No	Power Conversion (SMPS Series)
FGB40N6S2		35	1.9	55	No	No	Power Conversion (SMPS Series)
HGT1S20N60A4S		40	1.8	32	No	No	Power Conversion (SMPS Series)
HGT1S1N120CNDS	1200	3.2	2.05	365	Yes	Yes	Motor Control
HGT1S2N120BNS		5.6	2.45	130	Yes	No	Motor Control; Power Conversion
HGT1S2N120CNDS		7	2.05	260	Yes	Yes	Motor Control
HGT1S2N120CNS		7	2.05	260	Yes	No	Motor Control
HGT1S5N120BNDS		10	2.45	130	Yes	Yes	Motor Control; Power Conversion
HGT1S5N120BNS		10	2.45	130	Yes	No	Motor Control; Power Conversion
HGT1S5N120CNDS		12	2.1	280	Yes	Yes	Motor Control
HGT1S5N120CNS		12	2.1	280	Yes	No	Motor Control
HGT1S10N120BNS		17	2.45	100	Yes	No	Motor Control; Power Conversion
HGT1S11N120CNS		22	2.1	190	No	No	Motor Control
TO-264							
SGL5N60RUF	600	5	2.2	136	Yes	No	Motor Control; Power Conversion
SGL5N60RUF		5	2.2	136	Yes	Yes	Motor Control; Power Conversion
SGL10N60RUF		10	2.2	158	Yes	No	Motor Control; Power Conversion
SGL10N60RUF		10	2.2	158	Yes	Yes	Motor Control; Power Conversion
SGL15N60RUF		15	2.2	118	Yes	No	Motor Control; Power Conversion
SGL15N60RUF		15	2.2	118	Yes	Yes	Motor Control; Power Conversion
SGL20N60RUF		15	2.2	152	Yes	No	Motor Control; Power Conversion
SGL20N60RUF		15	2.2	152	Yes	Yes	Motor Control; Power Conversion
SGL30N60RUF		25	2.2	138	Yes	Yes	Motor Control; Power Conversion
SGL30N60RUF		30	2.2	138	Yes	No	Motor Control; Power Conversion
SGL50N60RUF		50	2.2	118	Yes	No	Motor Control
SGL50N60RUF		50	2.2	118	Yes	Yes	Motor Control; Power Conversion
HGT1Y40N60A4D		63	1.7	35	Yes	Yes	Power Conversion (SMPS Series)
HGT1Y40N60B3D		63	1.7	50	Yes	Yes	Motor Control; Power Conversion
SGL160N60UF		80	2.1	75	No	No	Power Conversion
SGL160N60UF		80	2.1	75	No	Yes	Power Conversion
SGL60N90DG3	900	42	2	250	No	Yes	Induction Heating
SGL60N90G3		42	2	250	No	No	Induction Heating
SGL25N120RUF	1200	25	2.3	150	Yes	No	Motor Control; Power Conversion
SGL25N120RUF		25	2.3	150	Yes	Yes	Motor Control; Power Conversion
SGL5N150UF	1500	5	4.7	70	No	No	High Power SMPS
FGL40N150D		40	3.5	100	No	Yes	Induction Heating
SGL40N150		40	3.7	180	No	No	Induction Heating
SGL40N150D		40	3.7	180	No	Yes	Induction Heating
FGL60N170D	1700	60	5	100	No	Yes	Induction Heating
TO-268							
HGT4E30N60B3S	600	30	1.45	58	Yes	Yes	Motor Control; Power Conversion
HGT4E30N60C3S		30	1.5	110	Yes	No	Motor Control
HGT4E20N60A4DS		40	1.8	32	No	Yes	Power Conversion (SMPS Series)
TO-3P							
SGH13N60UFD	600	6.5	2.1	97	No	Yes	Motor Control; Power Conversion
SGH10N60RUF		10	2.2	158	Yes	No	Motor Control; Power Conversion
SGH10N60RUF		10	2.2	158	Yes	Yes	Motor Control; Power Conversion
SGH23N60UF		12	2.1	70	No	No	Motor Control; Power Conversion
SGH23N60UFD		12	2.1	70	No	Yes	Motor Control; Power Conversion
SGH15N60RUF		15	2.2	118	Yes	No	Motor Control; Power Conversion
SGH15N60RUF		15	2.2	118	Yes	Yes	Motor Control; Power Conversion
SGH20N60RUF		20	2.2	152	Yes	No	Motor Control; Power Conversion
SGH20N60RUF		20	2.2	152	Yes	Yes	Motor Control; Power Conversion
SGH40N60UF		20	2.1	50	No	No	Induction Heating; Motor Control; Power Conversion
SGH40N60UFD		20	2.1	50	No	Yes	Induction Heating; Motor Control; Power Conversion
SGH30N60RUF		30	2.2	138	Yes	No	Motor Control; Power Conversion

* TC=25°C unless otherwise specified

Products	BVCES Min (V)*	IC@ 100°C (A)	VCE (sat) Typ (V)	t _f Typ (ns)	Short Circuit Rated	Built-In Diode	Primary Applications
Discrete IGBTs							
TO-3P (continued)							
SGH30N60RUF	600	30	2.2	138	Yes	Yes	Motor Control; Power Conversion
SGH80N60UF		40	2.1	50	No	No	Induction Heating; Motor Control; Power Conversion
SGH80N60UFD		40	2.1	50	No	Yes	Induction Heating; Motor Control; Power Conversion
SGH5N120RUF	1200	5	2.3	150	Yes	No	Motor Control; Power Conversion
SGH5N120RUF		5	2.3	150	Yes	Yes	Motor Control; Power Conversion
SGH10N120RUF		10	2.3	150	Yes	No	Motor Control; Power Conversion
SGH10N120RUF	1200	10	2.3	150	Yes	Yes	Motor Control; Power Conversion
SGH15N120RUF		15	2.3	150	Yes	No	Induction Heating; Motor Control; Power Conversion
SGH15N120RUF		15	2.3	150	Yes	Yes	Induction Heating; Motor Control; Power Conversion
SGH20N120RUF		20	2.3	150	Yes	No	Motor Control; Power Conversion
SGH20N120RUF		20	2.3	150	Yes	Yes	Motor Control; Power Conversion
SGH25N120RUF		25	2.3	150	Yes	No	Motor Control; Power Conversion
TO-3PF							
SGF23N60UF	600	12	2.1	70	No	No	Motor Control; Power Conversion
SGF23N60UFD		12	2.1	70	No	Yes	Motor Control; Power Conversion
SGF15N60RUF		15	2.2	118	Yes	Yes	Motor Control; Power Conversion
SGF40N60UF		20	2.1	50	No	No	Induction Heating; Motor Control; Power Conversion
SGF80N60UF		40	2.1	50	No	No	Motor Control; Power Conversion
SGF15N90D	900	15	2	200	No	Yes	Induction Heating
SGF5N150UF	1500	5	4.7	70	No	No	High Power SMPS

* TC=25°C unless otherwise specified

Products	BVCES Min (V)*	IC@100°C (A)	VCE(sat)		tf Typ (ns)	toff Typ (ns)	SCIS Energy @25C Min (mJ)	Clamping Voltage Typ (V)
			Typ (V)	Test Condition				
Automotive Ignition IGBTs								
TO-220 Ignition IGBT								
ISL9V2040P3	390	10	1.9	6A, 4.5V	2.36	3.6	200	400
HGTP14N36G3VL	330	14	1.6	14A, 5V	3.6	7	332	380
HGTP14N40F3VL	350	14	2	10A, 4.5V	2.75	12	330	385
ISL9V3036P3	330	17	1.6	6A, 4V	2.8	4.8	300	360
ISL9V3040P3	390	17	1.6	6A, 4V	2.8	4.8	300	400
HGTP14N37G3VL	320	18	1.6	14A, 5V	3	10	340	350
HGTP14N41G3VL	395	18	1.65	14A, 5V	3.5	10	340	410
HGTP20N35G3VL	320	20	1.6	20A, 5V	3.5	15	775	350
ISL9V5036P3	360	31	1.6	10A, 4V	2.8	4.8	500	360
TO-252 / DPAK Ignition IGBT								
ISL9V2040D3S	390	10	1.9	6A, 4.5V	2.36	3.6	200	400
ISL9V3036D3S	330	17	1.6	6A, 4V	2.8	4.8	300	360
ISL9V3040D3S	390	17	1.6	6A, 4V	2.8	4.8	300	400
TO-263 / D²PAK Ignition IGBT								
ISL9V2040S3S	390	10	1.9	6A, 4.5V	2.36	3.6	200	400
HGT1S14N36G3VLS	330	14	1.6	14A, 5V	3.6	7	332	380
ISL9V3036S3S	330	17	1.6	6A, 4V	2.8	4.8	300	360
ISL9V3040S3S	390	17	1.6	6A, 4V	2.8	4.8	300	400
HGT1S14N37G3VLS	320	18	1.6	14A, 5V	3	10	340	350
HGT1S20N35G3VLS	320	20	1.6	20A, 5V	3.5	15	775	350
ISL9V5036S3S	360	31	1.6	10A, 4V	2.8	4.8	500	360

* TC=25°C unless otherwise specified

Products	BV _{CES} Min (V)*	Current Rating (Tc=100) (A)	Frequency Typ (kHz)	Motor Rating (kW)	Motor Rating (VAC)	Output Current (100% Load) (A)	Output Current (150% Load) (A)	Built in Thermistor
IGBT Smart Power Modules (SPM)								
IPM-AA Smart Power Module								
FPAL10SH60	600	10	15	0.4	220	3	4.5	Yes
FPBL10SH60		10	15	0.4	220	3	4.5	No
FPAL15SH60		15	15	0.75	220	5	7.5	Yes
FPBL15SH60		15	15	0.75	220	5	7.5	No
FPAL15SL60		15	3	1	220	7	-	Yes
FPAL15SM60		15	7	1	220	7	-	Yes
FPBL15SL60		15	3	1	220	7	-	No
FPBL15SM60		15	7	1	220	7	-	No
FPAL20SL60		20	3	1.4	220	10	-	Yes
FPAL20SM60		20	7	1.4	220	10	-	Yes
FPBL20SL60		20	3	1.4	220	10	-	No
FPBL20SM60		20	7	1.4	220	10	-	No
FPAL30SL60		30	3	2	220	15	-	Yes
FPBL30SL60		30	3	2	220	15	-	No

Products	BVCES Min (V)*	IC@100°C (A)	VCE(sat) Typ (V)	tf Typ (ns)	Short Circuit Rated	Built-in Diode	Primary Applications
IGBT Modules							
6-in-One Pack Compact & Complex Module							
FMC6G10US60	600	10	2.2	158	Yes	Yes	Motor Control; Uninterrupted Power Supplies (UPS); General Inverters; 3-Phase Bridge Rectifier Circuit
FMC6G15US60		15	2.2	118	Yes	Yes	
FMC6G20US60		20	2.2	152	Yes	Yes	
FMC6G30US60		30	2.2	138	Yes	Yes	
FMC6G50US60		50	2.2	118	Yes	Yes	
7-in-One Pack Compact & Complex Module							
FMC7G10US60	600	10	2.2	158	Yes	Yes	Motor Control; Uninterrupted Power Supplies (UPS); General Inverters; 3-Phase Bridge Rectifier Plus Brake
FMC7G15US60		15	2.2	118	Yes	Yes	
FMC7G20US60		20	2.2	152	Yes	Yes	
FMC7G30US60		30	2.2	138	Yes	Yes	
FMC7G50US60		50	2.2	118	Yes	Yes	
One Pack Molding Type Module							
FMBL1G50US60	600	50	2.2	118	Yes	Yes	Inverters; Welding Machine; Induction Heating; UPS; CVCF; Robotics; Servo Controls FMBH1GxxUS60 = High Side Switch FMBL1GxxUS60 = Low Side Switch
FMBH1G50US60		50	2.2	118	Yes	Yes	
FMBL1G75US60		75	2.2	87	Yes	Yes	
FMBH1G75US60		75	2.2	87	Yes	Yes	
FMBL1G100US60		100	2.2	86	Yes	Yes	
FMBH1G100US60		100	2.2	86	Yes	Yes	
FMBL1G150US60		150	2.2	85	Yes	Yes	
FMBH1G150US60		150	2.2	85	Yes	Yes	
FMBL1G200US60		200	2.2	90	Yes	Yes	
FMBH1G200US60		200	2.2	90	Yes	Yes	
FMBL1G300US60		300	2.2	100	Yes	Yes	
FMBH1G300US60		300	2.2	100	Yes	Yes	
2-in-One Pack Molding Type Module							
FMG2G50US60	600	50	2.2	110	Yes	Yes	Inverters; Welding Machine; Induction Heating; UPS; CVCF; Robotics; Servo Controls
FMG2G75US60		75	2.2	110	Yes	Yes	
FMG2G100US60		100	2.2	110	Yes	Yes	
FM2G150US60		150	2.2	85	Yes	Yes	
FMG2G150US60		150	2.2	110	Yes	Yes	
FM2G200US60		200	2.2	90	Yes	Yes	
FM2G300US60		300	2.2	100	Yes	Yes	
FM2G400US60		400	2.2	178	Yes	Yes	
FM2G50US60	Not recommended for new designs. Use FMG2G50US60						
FM2G75US60	Not recommended for new designs. Use FMG2G75US60						
FM2G100US60	Not recommended for new designs. Use FMG2G100US60						

* TC=25°C unless otherwise specified

Products	Configuration	V_{RRM} (V)*	I_F (AV) (A)	V_F Max (V)	t_{rr} Max (ns)	I_R Max (μ A)	t_a @125°C Typ (ns)	t_b @125°C Typ (ns)
HyperFast/UltraSoft Recovery Rectifiers (Stealth™ Family)								
TO-220								
ISL9R460P2	Single	600	4	2.4	22	100	15	62
ISL9R860P2		600	8	2.4	30	100	16	61
ISL9R3060P2		600	30	2.4	45	100	38	72
ISL9R1560P2		600	15	2.2	40	100	30	60
ISL9R3060P2		600	30	2.4	45	100	38	72
ISL9K460P3	Common Cathode	600	4	2.4	22	100	15	62
ISL9K860P3		600	8	2.4	30	100	16	77
TO-247								
ISL9R1560G2	Single	600	15	2.2	40	100	30	60
ISL9R3060G2		600	30	2.4	45	100	38	72
ISL9K1560G3	Common Cathode	600	15	2.2	30	100	30	60
ISL9K3060G3		600	30	2.2	45	100	38	72
TO-262 (I²PAK)								
ISL9R460S2	Single	600	4	2.4	22	100	15	62
ISL9R860S2		600	8	2.4	30	100	16	61
ISL9R1560S2		600	15	2.2	40	100	30	60
TO-263 (D²PAK)								
ISL9R460S3S	Single	600	4	2.4	22	100	15	62
ISL9R860S3S		600	8	2.4	30	100	16	61
ISL9R1560S3S		600	15	2.2	40	100	30	60

Products	Configuration	VRRM (V)*	IF (AV) (A)	VFM Max (V)	trr Max (ns)	IRM or IR Max (μA)	ta Typ (ns)	tb Typ (ns)
HyperFast Recovery Rectifiers								
TO-218								
RHRU5060	Single	600	50	2.1	50	500	25	20
RHRU10060		600	100	2.1	60	250	28	18
RHRU15060		600	150	2.1	70	250	43	20
RHRU150100		1000	150	3	100	250	65	30
RHRU100120		1200	100	3.2	100	100	60	25
RHRU150120		1200	150	3.2	125	250	70	40
TO-220								
RHRP840	Single	400	8	2.1	35	100	18	10
RHRP1540		400	15	2.1	40	100	20	15
RHRP860		600	8	2.1	35	100	18	10
RHRP1560		600	15	2.1	40	100	20	15
RHRP3060		600	30	2.1	45	100	22	18
RHRP8100		1000	8	3	65	100	30	20
RHRP15100		1000	15	3	70	100	40	25
RHRP30100		1000	30	3.2	75	250	48	22
RHRP8120		1200	8	3.2	70	100	30	20
RHRP15120		1200	15	3.2	75	100	36	28
RHRP30120		1200	30	3	75	250	35	33
RHRP840CC	Common Cathode	400	8	2.1	35	100	18	10
RHRP860CC		600	8	2.1	35	100	18	10
RHRP8120CC		1200	8	3.2	70	100	30	20
TO-247								
RHRG3060	Single	600	30	2.1	45	100	22	18
RHRG5060		600	50	2.1	50	250	25	20
RHRG7560		600	75	2.1	60	250	27	23
RHRG30100		1000	30	3	75	100	35	33
RHRG50100		1000	50	3	95	250	54	32
RHRG30120		1200	30	3.2	75	100	48	22
RHRG50120		1200	50	3.2	100	250	50	35
RHRG75120		1200	75	3.2	100	250	60	25
RHRG1540CC	Common Cathode	400	15	2.1	40	100	20	15
RHRG3040CC		400	30	2.1	45	100	22	18
RHRG1560CC		600	15	2.1	40	100	20	15
RHRG3060CC		600	30	2.1	45	100	22	18
RHRG15100CC		1000	15	1.8	125	100	75	40
RHRG30100CC		1000	30	3	75	100	35	33
RHRG15120CC		1200	15	2.1	130	100	65	40
RHRG30120CC		1200	30	3.2	75	100	48	22
TO-251 (IPAK)								
RHRD460	Single	600	4	2.1	35	100	16	7
RHRD660		600	6	2.1	35	100	16	8
RHRD4120		1200	4	3.2	70	100	40	25
RHRD6120		1200	6	3.2	65	100	33	22
RHRD440CC	Common Cathode	400	4	2.1	35	100	16	7
TO-252 (DPAK)								
RHRD460S	Single	600	4	2.1	35	100	16	7
RHRD660S		600	6	2.1	35	100	16	8
RHRD4120S		1200	4	3.2	70	100	40	25
RHRD6120S		1200	6	3.2	65	100	33	22

Products	Configuration	V_{RRM} (V)*	I_F (AV) (A)	V_{FM} Max (V)	t_{rr} Max (ns)	I_{RM} or I_R Max (μ A)	t_a Typ (ns)	t_b Typ (ns)
UltraFast Recovery Rectifiers								
DO-15								
EGP20A	Single	50	2	.95	50	5		
EGP20B		100	2	.95	50	5		
EGP20C		150	2	.95	50	5		
EGP20D		200	2	.95	50	5		
EGP20F		300	2	1.25	50	5		
EGP20G		400	2	1.25	50	5		
EGP20J		600	2	1.7	75	5		
EGP20K		800	2	1.7	75	5		
DO-201AD								
EGP30A	Single	50	3	.95	50	5		
EGP30B		100	3	.95	50	5		
EGP30C		150	3	.95	50	5		
EGP30D		200	3	.95	50	5		
EGP30F		300	3	1.25	50	5		
EGP30G		400	3	1.25	50	5		
EGP30J		600	3	1.7	75	5		
EGP30K		800	3	1.7	75	5		
DO-41								
EGP10A	Single	50	1	1	50	5		
UF4001		50	1	1	50	10		
EGP10B		100	1	1	50	5		
UF4002		100	1	1	50	10		
EGP10C		150	1	1	50	5		
EGP10D		200	1	1	50	5		
UF4003		200	1	1	50	10		
EGP10F		300	1	1.25	50	5		
UF4004		400	1	1	50	10		
EGP10G		400	1	1.25	50	5		
EGP10J		600	1	1.7	75	5		
UF4005		600	1	1.7	75	10		
EGP10K		800	1	1.7	75	5		
UF4006		800	1	1.7	75	10		
UF4007		1000	1	1.7	75	10		
SMA								
ES1A	Single	50	1	.92	15	5		
EGF1A		50	1	1	50	10		
ES1B		100	1	.92	15	5		
EGF1B		100	1	1	50	10		
ES1C		150	1	.92	15	5		
EGF1C		150	1	1	50	10		
ES1D		200	1	.92	15	5		
EGF1D		200	1	1	50	10		
SMB								
ES2A	Single	50	2	.95	20	10		
ES2B		100	2	.95	20	10		
ES2C		150	2	.95	20	10		
ES2D		200	2	.95	20	10		

* TC=25°C unless otherwise specified

Products	Configuration	V _{RRM} (V)*	I _F (AV) (A)	V _{FM} Max (V)	t _{rr} Max (ns)	I _{RM} or I _R Max (μA)	t _a Typ (ns)	t _b Typ (ns)
UltraFast Recovery Rectifiers								
SMC								
ES3A	Single	50	3	.95	20	10		
ES3B		100	3	.95	20	10		
ES3C		150	3	.95	20	10		
ES3D		200	3	.95	20	10		
TO-218								
RURU8060	Single	600	80	1.6	85	250	40	25
RURU10060		600	100	1.6	100	250	45	25
RURU15060		600	150	1.6	100	250	60	30
RURU80100		1000	80	1.9	200	250	90	65
RURU150100		1000	100	1.8	125	100	75	40
RURU75120		1200	75	2.1	200	250	90	65
RURU100120		1200	100	2.1	200	250	90	65
RURH1515CC	Common Cathode	150	15	1.05	35	100	20	10
MUR3020PT		200	15	1.05	35	100	20	10
RURH1520CC		200	15	1.05	35	100	20	10
RURH3020CC		200	30	1	50	250	28	20
MUR3040PT		400	15	1.2	60	100	30	20
RURH1540CC		400	15	1.25	60	100	30	17
MUR3060PT		600	15	1.2	60	100	30	20
RURH1560CC		600	15	1.5	60	100	30	20
TO-220								
FES16AT	Single	50	16	.975	35			
FES16ATR		50	16	.975	35			
MUR1520		100	15	1.05	35	100	20	10
FES16BT		100	16	.975	35	10		
FES16BTR		100	16	.975	35			
FES16CT		150	16	.975	35	10		
FES16CTR		150	16	.975	35			
MUR820		200	8	.975	30	100	13	5
RURP820		200	8	.975	30	100	13	5
RURP1520		200	15	1.05	35	500	20	10
FES16DT		200	16	.975	35	10		
FES16DTR		200	16	.975	35			
RURP3020		200	30	1	50	250	20	15
FES16FT		300	16	1.3	50	10		
FES16FTR		300	16	1.3	50			
MUR840		400	8	1	60	100		
RURP840		400	8	1.3	70	100	32	21
MUR1540		400	15	1.25	60	100	30	17
RURP1540		400	15	1.25	60	100	30	17
FES16GT		400	16	1.3	50	10		
FES16GTR		400	16	1.3	50			
FES16HT		500	16	1.5	50	10		
FES16HTR		500	16	1.5	50			
MUR860		600	8	1.2	60	100		
RURP860		600	8	1.5	70	100	32	21
MUR1560		600	15	1.5	60	100	30	20
RURP1560		600	15	1.5	60	100	30	20
FES16JT		600	16	1.5	50	10		

* TC=25°C unless otherwise specified

Products	Configuration	V_{RRM} (V)*	I_F (AV) (A)	V_{FM} Max (V)	t_{rr} Max (ns)	I_{RM} or I_R Max (μ A)	t_a Typ (ns)	t_b Typ (ns)
UltraFast Recovery Rectifiers								
TO-220 (continued)								
FES16JTR		600	16	1.5	50			
RURP3060		600	30	1.5	60	250	30	20
MUR8100E		1000	8	1.5	110	100	45	20
RURP8100		1000	8	1.8	100	100	50	30
RURP15100		1000	15	1.8	125	500	75	40
RURP30100		1000	30	1.8	150	250	90	45
RURP8120		1200	8	2.1	110	100	60	40
RURP15120		1200	15	2.1	130	500	65	40
RURP30120		1200	30	2.1	150	250	90	45
FEP16ATD	Series	50	16	.975	35			
FEP16BTD		100	16	.975	35			
FEP16CTD		150	16	.975	35			
FEP16DTD		200	16	.975	35			
FEP16FTD		300	16	1.3	50			
FEP16GTD		400	16	1.3	50			
FEP16HTD		500	16	1.5	50			
FEP16JTD		600	16	1.5	50			
FEP16AT	Common Cathode	50	16	.975	35			
FEP16BT		100	16	.975	35	10		
FEP16CT		150	16	.975	35	10		
FFP06U20DN		200	6	1.2	35	6		
MUR1620CT		200	8	.975	30	100	13	5
RURP820CC		200	8	.975	30	100	13	5
FFP10U20DN		200	10	1.2	35	10		
FFP15U20DN		200	15	1.2	40	15		
FEP16DT		200	16	.975	35	10		
FEP16FT		300	16	1.3	50	10		
FFP04U40DN		400	4	1.4	45	10		
FFP06U40DN		400	6	1.4	50	20		
RURP840CC		400	8	1.3	70	100	32	21
FEP16GT		400	16	1.3	50	10		
FEP16HT		500	16	1.5	50	10		
FFP05U60DN		600	5	2.3	80	2.5		
RURP860CC		600	8	1.5	70	100	32	21
FFP10U60DN		600	10	2.2	90	5		
FEP16JT		600	16	1.5	50	10		
FFP20U60DN		600	20	2.2	90	10		
FFP30U60DN		600	30	2.3	90	15		
FEP16ATA	Common Anode	50	16	.975	35			
FEP16BTA		100	16	.975	35			
FEP16CTA		150	16	.975	35			
FEP16DTA		200	16	.975	35			
FEP16FTA		300	16	1.3	50			
FEP16GTA		400	16	1.3	50			
FEP16HTA		500	16	1.5	50			
FEP16JTA		600	16	1.5	50			

* TC=25°C unless otherwise specified

Products	Configuration	V _{RRM} (V)*	I _{F (AV)} (A)	V _{FM} Max (V)	t _{rr} Max (ns)	I _{RM} or I _R Max (μA)	t _a Typ (ns)	t _b Typ (ns)
UltraFast Recovery Rectifiers								
TO-220F								
FFPF06U20S	Single	200	6	1.2	35	6		
FFPF10U20S		200	10	1.2	35	10		
FFPF15U20S		200	15	1.2	40	15		
FFPF20U20S		200	20	1.2	40	20		
FFPF30U20S		200	30	1.2	40	30		
FFPF04U40S		400	4	1.4	45	10		
FFPF06U40S		400	6	1.4	50	20		
FFPF10U40S		400	10	1.4	50	30		
FFPF15U40S		400	15	1.4	50	40		
FFPF20U40S		400	20	1.4	50	50		
FFPF05U60S		600	5	2.3	80	2.5		
FFPF10U60S		600	10	2.2	90	5		
FFPF20U60S		600	20	2.2	90	10		
FFPF30U60S		600	30	2.3	90	15		
FFPF40U60S		600	40	2.1	110	20		
FFPF05U120S		1200	5	3.5	100	5		
FFPF10U120S		1200	10	3.5	100	10		
FFPF15U120S		1200	15	3.5	100	15		
FFPF06U20DN	Common Cathode	200	6	1.2	35	6		
FFPF10U20DN		200	10	1.2	35	10		
FFPF15U20DN		200	15	1.2	40	15		
FFPF04U40DN		400	4	1.4	45	10		
FFPF06U40DN		400	6	1.4	50	20		
FFPF05U60DN		600	5	2.3	80	2.5		
FFPF10U60DN		600	10	2.2	90	5		
FFPF20U60DN		600	20	2.2	90	10		
FFPF30U60DN		600	30	2.3	90	15		
FFPF06U20DP	Common Anode	200	6	1.2	35	6		
FFPF10U20DP		200	10	1.2	35	10		
FFPF15U20DP		200	15	1.2	40	15		
FFPF04U40DP		400	4	1.4	45	10		
FFPF06U40DP		400	6	1.4	50	20		
TO-247								
RURG3020	Single	200	30	1	50	250	20	15
RURG3060		600	30	1.5	60	250	30	20
RURG5060		600	75	1.6	75	250	30	20
RURG8060		600	80	1.6	85	250	40	25
RURG30100		1000	30	1.8	150	250	90	45
RURG50100		1000	50	1.9	200	250	110	65
RURG80100		1000	80	1.9	200	250	90	65
RURG30120		1200	30	2.1	150	250	90	45
RURG50120		1200	50	2.1	200	250	95	70
RURG75120		1200	80	2.1	200	250	90	65
RURG1520CC		Common Cathode	200	15	1.05	35	100	20
RURG3020CC	200		30	1	50	250	20	15
RURG1540CC	400		15	1.5	60	100	30	17
RURG3040CC	400		30	1.5	60	250	30	20
RURG1560CC	600		15	1.5	60	100	30	17
RURG3060CC	600		30	1.5	60	250	30	20

* TC=25°C unless otherwise specified

Products	Configuration	V _{RRM} (V)*	I _F (AV) (A)	V _{FM} Max (V)	t _{rr} Max (ns)	I _{RM} or I _R Max (μA)	t _a Typ (ns)	t _b Typ (ns)
UltraFast Recovery Rectifiers								
TO-247 (continued)								
RURG15100CC		1000	15	1.8	125	100	75	40
RURG30100CC		1000	30	1.8	150	250	90	45
RURG15120CC		1200	15	2.1	130	100	65	40
RURG30120CC		1200	30	2.1	150	250	90	45
TO-251 (IPAK)								
RURD420	Single	200	4	1	35	100	11	9
RURD620		200	6	1	30	100	13	6
RURD460		600	4	1.5	60	100	32	15
RURD660		600	6	1.5	60	100	28	16
RURD860		600	8	1.5	70	100	32	21
RURD4120		1200	4	2.1	90	100	40	28
RURD620CC		Common Cathode	200	6	1	30	100	13
TO-252 (DPAK)								
RURD420S	Single	200	4	1	35	100	11	9
RURD420US		200	4	1	35	100	11	9
RURD620S		200	6	1	30	100	13	6
RURD840S9A		400	8	1.5	70	100	32	21
RURD460S		600	4	1.5	60	100	32	15
RURD660S		600	6	1.5	60	100	28	16
RURD4120S		1200	4	2.1	90	100	40	28
RURD620CCS	Common Cathode	200	6	1	30	100	13	6
TO-263 (D ² PAK)								
FFB10U20S	Single	200	10	1.2	35	10		
FFB20U20S		200	20	1.2	40	20		
FFB06U40S		400	6	1.4	50	20		
RUR1S1560S		600	15	3	60	100	30	17
FFB20U60S		600	20	2.2	90	20		
FFB05U120S		1200	5	3.5	100	5		
FFB10U120S		1200	10	3.5	100	10		
TO-264								
FFL60U60DN	Common Cathode	600	60	2.2	90	25		
FFL20U120DN		1200	20	3.5	120	20		
FFL25U120DN		1200	25	3.5	120	25		
TO-3P								
FFA15U20DN	Common Cathode	200	15	1.2	40	15		
FFA20U20DN		200	20	1.2	40	20		
FFA30U20DN		200	30	1.2	40	30		
FFA10U40DN		400	10	1.4	50	30		
FFA15U40DN		400	15	1.4	50	40		
FFA20U40DN		400	20	1.4	50	50		
FFA20U60DN		600	20	2.2	90	10		
FFA30U60DN		600	30	2.3	90	15		
FFA40U60DN		600	40	2.1	110	20		
FFA60U60DN		600	60	2.2	90	25		
FFA05U120DN		1200	5	3.5	100	5		
FFA10U120DN		1200	10	3.5	100	10		
FFA15U120DN		1200	15	3.5	100	15		
FFA20U120DN		1200	20	3.5	120	20		

* TC=25°C unless otherwise specified

Products	Configuration	V_{RRM} (V)*	I_F (AV) (A)	V_{FM} Max (V)	t_{rr} Max (ns)	I_{RM} or I_R Max (μ A)	t_a Typ (ns)	t_b Typ (ns)
UltraFast Recovery Rectifiers								
TO-3PF								
FFAF10U20DN	Common Cathode	200	10	1	35	10		
FFAF15U20DN		200	15	1.2	40	15		
FFAF20U20DN		200	20	1.2	40	20		
FFAF10U40DN		400	10	1.4	50	30		
FFAF20U60DN		600	20	2.2	90	10		
FFAF30U60DN		600	30	2.3	90	15		
FFAF40U60DN		600	40	2.1	110	20		
FFAF60U60DN		600	60	2.2	90	25		
FFAF05U120DN		1200	5	3.5	100	5		
FFAF10U120DN		1200	10	3.5	100	10		
FFAF15U120DN		1200	15	3.5	100	15		
FFAF20U120DN		1200	20	3.5	120	20		

Products	Configuration	V_{RRM} (V)*	I_F (AV) (A)	V_{FM} Max (V)	t_{rr} Max (ns)	I_{RM} Max (μ A)
Fast Recovery Rectifiers						
DO-41						
1N4933	Single	50	1	1.2	150	5
1N4933GP		50	1	1.2	150	5
RGP10A		50	1	1.3	150	5
1N4934		100	1	1.2	150	5
1N4934GP		100	1	1.2	150	5
RGP10B		100	1	1.3	150	5
1N4935		200	1	1.2	150	5
1N4935GP		200	1	1.2	150	5
RGP10D		200	1	1.3	150	5
1N4936		400	1	1.2	150	5
1N4936GP		400	1	1.2	150	5
RGP10G		400	1	1.3	150	5
1N4937		600	1	1.2	150	5
1N4937GP		600	1	1.2	150	5
RGP10J		600	1	1.3	250	5
RGP10K		800	1	1.3	500	5
RGP10M		1000	1	1.3	500	5
SMA						
RGF1A	Single	50	1	1.3	150	5
RS1A		50	1	1.3	150	5
RGF1B		100	1	1.3	150	5
RS1B		100	1	1.3	150	5
RGF1D		200	1	1.3	150	5
RS1D		200	1	1.3	150	5
RGF1G		400	1	1.3	150	5
RS1G		400	1	1.3	150	5
RGF1J		600	1	1.3	250	5
RS1J		600	1	1.3	250	5
RGF1K		800	1	1.3	500	5
RS1K		800	1	1.3	500	5
RGF1M		1000	1	1.3	500	5
RS1M		1000	1	1.3	500	5
TO-220F						
FFPF06F20DN	Common Cathode	200	6	1.3	120	3
FFPF10U30DN	Common Anode	300	10	1.3	55	10

Products	Configuration	V_{RRM} (V)*	I_F (AV) (A)	V_{FM} Max (V)	t_{rr} Max (ns)	I_{RM} Max (μ A)
General Purpose Rectifiers						
DO-15						
1N5391	Single	50	1.5	1.4		5
DO-41						
1N4001	Single	50	1	1.1		5
1N4001GP		50	1	1.1		5
1N4002GP		100	1	1.1		5
1N4003GP		200	1	1.1		5
1N4004		400	1	1.1		5
1N4004GP		400	1	1.1		5
1N4005		600	1	1.1		5
1N4005GP		600	1	1.1		5
1N4006		800	1	1.1		5
1N4006GP		800	1	1.1		5
1N4007		1000	1	1.1		5
1N4007GP		1000	1	1.1		5
SMA						
GF1A	Single	50	1	1	2000	5
S1A		50	1	1.1	1800	1
GF1B		100	1	1	2000	5
S1B		100	1	1.1	1800	1
GF1D		200	1	1	2000	5
S1D		200	1	1.1	1800	1
GF1G		400	1	1	2000	5
S1G		400	1	1.1	1800	1
GF1J		600	1	1	2000	5
S1J		600	1	1.1	1800	1
S1K		800	1	1.1	1800	1
GF1K		800	1	1.2	2000	5
S1M		1000	1	1.1	1800	1
GF1M		1000	1	1.2	2000	5
SMB						
S2A	Single	50	1.5	1.15	2000	1
S2B		100	1.5	1.15	2000	1
S2D		200	1.5	1.15	2000	1
S2G		400	1.5	1.15	2000	1
S2J		600	1.5	1.15	2000	1
S2K		800	1.5	1.15	2000	1
S2M		1000	1.5	1.15	2000	1
SMC						
S3A	Single	50	3	1.2	2500	5
S3B		100	3	1.2	2500	5
S3D		200	3	1.2	2500	5
S3G		400	3	1.2	2500	5
S3J		600	3	1.2	2500	5
S3K		800	3	1.2	2500	5
S3M		1000	3	1.2	2500	5

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Products	Configuration	V_{RRM} (V)*	I_F (AV) (A)	V_{FM} Max (V)	t_{rr} Max (ns)	I_{RM} Max (μ A)
Damper Diodes						
TO-220F						
FFPF04F150S	Single	1500	4	1.5	170	5
FFPF04U150S		1500	4	1.8	150	7
FFPF06F150S		1500	6	1.6	170	7
FFPF06U150S		1500	6	1.8	150	10
FFPF10F150S		1500	10	1.6	170	10
FFPF10U150S		1500	10	1.8	150	15
FFPF14U150S		1500	14	1.8	150	20
FFPF14X150S		1500	14	2.4	120	20
FFPF60B150DS	Series Damper + Modulation	1500	6	1.6	170	7
TO-3PF						
FFAF10U170S	Single	1700	10	2	140	100
FFAF60A150DS	Series Damper + Modulation	1500	6	1.6	170	7