



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	
SGS5N60RUFDF		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	
SGS10N60RUFDF		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	

* 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-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 (I²PAK)								
HGT1S2N120CN	1200	7	2.05	260	Yes	Yes	Motor Control	
TO-263 (D²PAK)								
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 (D²PAK) (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
SGL5N60RUFDF		5	2.2	136	Yes	Yes	Motor Control; Power Conversion
SGL10N60RUF		10	2.2	158	Yes	No	Motor Control; Power Conversion
SGL10N60RUFDF		10	2.2	158	Yes	Yes	Motor Control; Power Conversion
SGL15N60RUF		15	2.2	118	Yes	No	Motor Control; Power Conversion
SGL15N60RUFDF		15	2.2	118	Yes	Yes	Motor Control; Power Conversion
SGL20N60RUF		15	2.2	152	Yes	No	Motor Control; Power Conversion
SGL20N60RUFDF		15	2.2	152	Yes	Yes	Motor Control; Power Conversion
SGL30N60RUFDF		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
SGL50N60RUFDF		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
SGL160N60UFDF		80	2.1	75	No	Yes	Power Conversion
SGL60N90DG3		900	42	2	250	No	Yes
SGL60N90G3	42		2	250	No	No	Induction Heating
SGL25N120RUF	1200	25	2.3	150	Yes	No	Motor Control; Power Conversion
SGL25N120RUFDF		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							
SGH13N60UFDF	600	6.5	2.1	97	No	Yes	Motor Control; Power Conversion
SGH10N60RUF		10	2.2	158	Yes	No	Motor Control; Power Conversion
SGH10N60RUFDF		10	2.2	158	Yes	Yes	Motor Control; Power Conversion
SGH23N60UF		12	2.1	70	No	No	Motor Control; Power Conversion
SGH23N60UFDF		12	2.1	70	No	Yes	Motor Control; Power Conversion
SGH15N60RUF		15	2.2	118	Yes	No	Motor Control; Power Conversion
SGH15N60RUFDF		15	2.2	118	Yes	Yes	Motor Control; Power Conversion
SGH20N60RUF		20	2.2	152	Yes	No	Motor Control; Power Conversion
SGH20N60RUFDF		20	2.2	152	Yes	Yes	Motor Control; Power Conversion
SGH40N60UF		20	2.1	50	No	No	Induction Heating; Motor Control; Power Conversion
SGH40N60UFDF		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)	tf 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
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 ($T_c=100$) (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

* $T_C=25^{\circ}\text{C}$ 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
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_s @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

* TC=25°C unless otherwise specified

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
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

* 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									
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 (μ A)	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 (μ A)	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	10
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 (μ A)	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	6
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 (D²PAK)								
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		

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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		

* 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} 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	

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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)	
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

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