

мост диодный, выпрямитель, однофазный, трёхфазный

Bridge Rectifier Features:

- Current: 0.5A to 30A
 - Reverse Voltage: 50V to 1000V
 - Available in 10 Pin DIP, Stud Mounting and Surface Mount
 - Rugged Construction
 - Available in 6, 7, 8, 9, 10, 12 Lead, Solderable Pins for PCB
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фото, аналог, замена,



Bridge Rectifier Applications:

- AC to DC Conversion
- AC Adapter
- Battery Charger
- Motor controller / Automatic System
- Switching Mode Power Supply

三泰科技有限公司

Suntan Technology Company Limited

Bridge Rectifier Types

- SMD Package (SMD Bridge Rectifier)
- KGD Package (SMD Power Metal Bridge Rectifier)
- GGD Package (SMD Power Metal Bridge Rectifier)
- High Power (Power Metal Bridge Rectifier)
- Single Phase (Power Metal Bridge Rectifier)
- Three Phase (Power Metal Bridge Rectifier)

All Transil Bridge Rectifier Product List :

Part No.	10V	15V	20V	40V	60V	100V	150V	Package
BR-10	-	-	5.820	5.810	5.800	1.130	1.120	40V
BR-15	-	-	5.825	5.815	5.805	1.135	1.125	40V
BR-20	4.810	4.800	4.790	1.010	1.000	1.000	1.000	40V
BR-40	4.815	4.805	4.795	1.015	1.005	1.005	1.005	40V
BR-60	4.820	4.810	4.800	1.020	1.010	1.010	1.010	40V
BR-100	4.825	4.815	4.805	1.025	1.015	1.015	1.015	40V
BR-150	4.830	4.820	4.810	1.030	1.020	1.020	1.020	40V
BR-200	4.835	4.825	4.815	1.035	1.025	1.025	1.025	40V
BR-300	4.840	4.830	4.820	1.040	1.030	1.030	1.030	40V
BR-400	4.845	4.835	4.825	1.045	1.035	1.035	1.035	40V
BR-500	4.850	4.840	4.830	1.050	1.040	1.040	1.040	40V
BR-600	4.855	4.845	4.835	1.055	1.045	1.045	1.045	40V
BR-700	4.860	4.850	4.840	1.060	1.050	1.050	1.050	40V
BR-800	4.865	4.855	4.845	1.065	1.055	1.055	1.055	40V
BR-900	4.870	4.860	4.850	1.070	1.060	1.060	1.060	40V
BR-1000	4.875	4.865	4.855	1.075	1.065	1.065	1.065	40V
BR-1500	4.880	4.870	4.860	1.080	1.070	1.070	1.070	40V
BR-2000	4.885	4.875	4.865	1.085	1.075	1.075	1.075	40V
BR-3000	4.890	4.880	4.870	1.090	1.080	1.080	1.080	40V
BR-4000	4.895	4.885	4.875	1.095	1.085	1.085	1.085	40V
BR-5000	4.900	4.890	4.880	1.100	1.090	1.090	1.090	40V
BR-6000	4.905	4.895	4.885	1.105	1.095	1.095	1.095	40V
BR-7000	4.910	4.900	4.890	1.110	1.100	1.100	1.100	40V
BR-8000	4.915	4.905	4.895	1.115	1.105	1.105	1.105	40V
BR-9000	4.920	4.910	4.900	1.120	1.110	1.110	1.110	40V
BR-10000	4.925	4.915	4.905	1.125	1.115	1.115	1.115	40V
BR-15000	4.930	4.920	4.910	1.130	1.120	1.120	1.120	40V
BR-20000	4.935	4.925	4.915	1.135	1.125	1.125	1.125	40V
BR-30000	4.940	4.930	4.920	1.140	1.130	1.130	1.130	40V
BR-40000	4.945	4.935	4.925	1.145	1.135	1.135	1.135	40V
BR-50000	4.950	4.940	4.930	1.150	1.140	1.140	1.140	40V
BR-60000	4.955	4.945	4.935	1.155	1.145	1.145	1.145	40V
BR-70000	4.960	4.950	4.940	1.160	1.150	1.150	1.150	40V
BR-80000	4.965	4.955	4.945	1.165	1.155	1.155	1.155	40V
BR-90000	4.970	4.960	4.950	1.170	1.160	1.160	1.160	40V
BR-100000	4.975	4.965	4.955	1.175	1.165	1.165	1.165	40V
BR-150000	4.980	4.970	4.960	1.180	1.170	1.170	1.170	40V
BR-200000	4.985	4.975	4.965	1.185	1.175	1.175	1.175	40V
BR-300000	4.990	4.980	4.970	1.190	1.180	1.180	1.180	40V
BR-400000	4.995	4.985	4.975	1.195	1.185	1.185	1.185	40V
BR-500000	5.000	4.990	4.980	1.200	1.190	1.190	1.190	40V
BR-600000	5.005	4.995	4.985	1.205	1.195	1.195	1.195	40V
BR-700000	5.010	5.000	4.990	1.210	1.200	1.200	1.200	40V
BR-800000	5.015	5.005	4.995	1.215	1.205	1.205	1.205	40V
BR-900000	5.020	5.010	5.000	1.220	1.210	1.210	1.210	40V
BR-1000000	5.025	5.015	5.005	1.225	1.215	1.215	1.215	40V
BR-1500000	5.030	5.020	5.010	1.230	1.220	1.220	1.220	40V
BR-2000000	5.035	5.025	5.015	1.235	1.225	1.225	1.225	40V
BR-3000000	5.040	5.030	5.020	1.240	1.230	1.230	1.230	40V
BR-4000000	5.045	5.035	5.025	1.245	1.235	1.235	1.235	40V
BR-5000000	5.050	5.040	5.030	1.250	1.240	1.240	1.240	40V
BR-6000000	5.055	5.045	5.035	1.255	1.245	1.245	1.245	40V
BR-7000000	5.060	5.050	5.040	1.260	1.250	1.250	1.250	40V
BR-8000000	5.065	5.055	5.045	1.265	1.255	1.255	1.255	40V
BR-9000000	5.070	5.060	5.050	1.270	1.260	1.260	1.260	40V
BR-10000000	5.075	5.065	5.055	1.275	1.265	1.265	1.265	40V
BR-15000000	5.080	5.070	5.060	1.280	1.270	1.270	1.270	40V
BR-20000000	5.085	5.075	5.065	1.285	1.275	1.275	1.275	40V
BR-30000000	5.090	5.080	5.070	1.290	1.280	1.280	1.280	40V
BR-40000000	5.095	5.085	5.075	1.295	1.285	1.285	1.285	40V
BR-50000000	5.100	5.090	5.080	1.300	1.290	1.290	1.290	40V
BR-60000000	5.105	5.095	5.085	1.305	1.295	1.295	1.295	40V
BR-70000000	5.110	5.100	5.090	1.310	1.300	1.300	1.300	40V
BR-80000000	5.115	5.105	5.095	1.315	1.305	1.305	1.305	40V
BR-90000000	5.120	5.110	5.100	1.320	1.310	1.310	1.310	40V
BR-100000000	5.125	5.115	5.105	1.325	1.315	1.315	1.315	40V



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RECTIFIER DIODE - STUD / FLAT / SQUARE BASE TYPE

Type	V^{FRM}	IFAV@TC		IR	I_{FSM}	VFM @ IFM		V_o r_T		Tj max	R_{thJC}	R_{thcs}	Fig No.
	V	A	°C	mA	A	V	A	V	mΩ	°C	°C/W	°C/W	
12FM/FMR	400-1600	12	140	1.0	250	1.3	37	0.800	6.8	175	2	0.6	1
16FM/FMR	400-1600	16	140	1.0	300	1.2	50	0.800	6.8	175	1.6	0.6	1
25FM/FMR	400-1600	25	120	4.0	356	1.3	78	0.800	6.8	175	1.5	0.5	1
25HM/HMR	400-1600	25	140	5	400	1.35	78	0.860	3.0	175	1.5	0.5	2A, 2B
40HM/HMR	400-1600	40	140	5	500	1.35	125	0.690	3.7	175	1	0.5	2A, 2B
61HM/HMR	400-1600	60	140	5	860	1.35	188	0.790	2.33	175	0.55	0.25	3A, 3B
70HM/HMR	400-1600	70	140	5	1000	1.35	220	0.790	2.33	175	0.5	0.25	3A, 3B
100LM/LMR/LF/LFR	400-1600	100	130	15	2300	1.4	314	0.780	1.41	175	0.4	0.1/0.07	4A, 4B
150LM/LM R/LF/LFR	400-1600	150	130	15	3600	1.4	471	0.780	1.41	175	0.25	0.1/0.07	4A, 4B
200LM/LM R/LF/LFR	400-1600	200	125	15	4400	1.4	628	0.850	0.85	175	0.17	0.08	4A, 4B
200UM/UMR/UF/UFR	400-1600	200	130	20	4300	1.35	628	0.850	0.85	175	0.2	0.08/0.05	5A, 5B
250UM/UMR/UF/UFR	400-1600	250	130	20	4500	1.3	785	0.760	0.55	175	0.18	0.08/0.05	5A, 5B
300UM/UMR/UF/UFR	400-1600	300	130	20	5000	1.4	942	0.760	0.55	175	0.12	0.08/0.05	5A, 5B
320UM/UMR/UF/UFR	400-1600	320	130	20	5500	1.4	1005	0.860	0.15	175	0.12	0.08/0.02	5A, 5B
350UF/UFR	400-1600	350	125	20	6000	1.2	1050	0.880	0.15	175	0.15	0.02	5B
321UM/UMR/UF/UFR	400-2700	320	130	20	5500	1.65	1005	0.720	0.53	175	0.12	0.08/0.02	6, 5C
351/352UF/UFR	400-1600	351	125	20	6000	1.2	1050	0.880	0.15	175	0.15	0.02	5C/5D
400UM/UMR/UF/UFR	400-2400	400	120	20	8250	1.62	1500	0.800	0.55	175	0.11	0.04	5A,5B
450V/VR/VF/VFR	200-2000	450	75	35	7500	1.66	1000	0.880	0.78	175	0.11	0.04	7A, 7B
600V/VR/VF/VFR	400-2000	600	92	35	13000	1.31	1500	0.780	0.35	175	0.1	0.04	7A,7B

FAST RECOVERY RECTIFIER DIODE

Type	V^{FRM}	IFAV@TC		I_{FSM}	VFM @ IFM		Reverse Recovery Time			V_o r_T		Tj max	R_{thJC}	R_{thcs}	Fig No.
	V	A	°C	A	V	A	t_r	$@I_{FM}$	di/dt	V	mΩ	°C	°C/W	°C/W	
							nS	A	A/μS						
12FL/FLR	100-1000	12	100	145	1.4	38	500	1	25	1.2	35	150	2	0.5	1
16FL/FLR	100-1000	16	100	180	1.4	50	500	1	25	1.200	20	150	1.6	0.5	1
40HFL/HFLR	100-1000	40	75	400	1.95	125	500	1	100	1.080	20	150	0.6	0.25	2A, 2B
70HFL/HFLR	100-1000	70	75	700	1.85	220	500	1	100	1.085	10	150	0.36	0.25	3A, 3B
100LML/LMLR	100-1000	100	75	1800	1.6	314	500	350	25	1.360	2.55	150	0.35	0.15	4A
150LML/LMLR	100-1000	150	75	2850	1.55	471	500	350	25	1.000	4.00	150	0.2	0.15	4A
200LML/LMLR	200-600	200	125	3650	1.55	628	500	350	25	1.00	1.1	150	0.1	0.07	4A

PHASE CONTROL THYRISTOR - STUD/SQUARE BASE TYPE

Type	V_{DRM}	V_{RRM}	$I_{T(AV)}$	θ_{TC}	I_{TSM}	$V_{TM} @ I_{TM}$		V_{TO}	r_T	IGT	VGT	dv/dt	di/dt	R_{thJC}	R_{thCS}	Fig.
	V	A	A	°C	A	V	A	V	m Ω	mA	V	V/ μ s	A/ μ s	°C/W	°C/W	
16RIA	100-1600	16	85	285	1.75	50	0.99	11.73	60	2.0	300	100	1.15	0.35	1	
25RIA	100-1600	25	85	350	1.70	78	0.99	11.73	60	2.0	300	100	0.75	0.35	1	
41RIA	100-1600	40	94	1050	1.65	125	1.02	4.78	100	2.5	500	100	0.40	0.25	2	
51RIA	100-1600	50	94	1200	1.60	157	1.02	4.78	100	2.5	500	100	0.35	0.25	2	
71RIA	100-1600	70	80	1200	1.80	220	0.97	4.10	100	2.5	500	100	0.35	0.10	3	
81RIA	100-1600	80	85	1597	1.60	251	0.85	3.50	3	2.5	500	100	0.80	0.10	3	
81RK	100-1600	80	90	1730	1.80	251	1.21	2.40	150	3.0	500	100	0.26	0.08	4	
111RK	100-1600	110	90	2270	1.52	350	0.90	1.79	150	3.0	500	100	0.20	0.08	4	
125RK	200-1600	125	85	2570	1.55	400	0.90	1.79	150	3.0	500	100	0.19	0.08	4	
155RK	200-1600	150	90	2700	1.80	471	1.14	1.70	150	3.0	500	100	0.11	0.04	5	
175RK	200-1600	170	85	3900	1.75	533	1.08	1.80	150	3.0	500	100	0.105	0.04	5	
260RK	200-600	260	85	6600	1.28	660	0.84	0.50	150	3.0	500	100	0.105	0.04	5	
235RK	200-1600	230	85	4800	1.55	722	0.92	0.81	150	3.0	500	100	0.10	0.04	5	
255RK	200-1600	250	75	5570	1.80	785	0.88	0.95	200	3.0	500	100	0.105	0.03	6	
305RK	200-1600	300	75	6730	1.66	942	0.97	0.74	200	3.0	500	100	0.10	0.03	6	
355RK	200-1600	350	75	7550	1.55	1099	0.91	0.60	200	3.0	500	100	0.08	0.03	6/7	
380RK	200-600	380	75	10500	1.40	1193	0.91	0.58	200	3.0	500	100	0.08	0.03	6/7	
400RK	200-1600	400	75	9500	1.55	1255	0.90	0.40	200	3.0	500	100	0.10	0.03	7	
450RKS	200-1600	450	85	11500	1.66	1400	1.05	0.20	200	3.0	500	100	0.073	0.01	7	
500RKS	200-1600	500	85	12000	1.60	1570	1.06	0.02	250	3.0	500	100	0.073	0.01	7	

THYRISTOR INVERTER GRADE - STUD TYPE

Type	V_{DRM}	V_{RRM}	I_{AV}	TC	I_T (max)	I_{TSM}	I_{TMS}	Turn-off @ I_{TMS} & dI/dt			V_{TO}	r_T	IGT	VGT	dv/dt	di/dt	R_{thJC}	R_{thCS}	Fig.
	V	A	A	°C	A	A	V	A	μ s	A/ μ s	V	m Ω	mA	V	V/ μ s	A/ μ s	°C/W	°C/W	
41RIA.F	100-1200	40	94	63	700	2.40	125	40	50	10	1	7.8	100	2.5	500	100	0.400	0.260	2
51RIA.F	100-1200	50	94	78	1000	2.00	157	40	80	10	1.00	7.00	100	2.5	500	100	0.350	0.280	2
85RK.F	400-1200	85	85	134	2450	2.15	300	10 to 30	300	20	1.48	4	200	3.0	500	100	0.195	0.080	4
175RK.F	400-1200	175	85	275	4630	2.07	600	15 to 25	300	20	1.56	0.670	200	3.0	500	100	0.105	0.040	5
260RK.F	400-1200	260	85	320	8260	1.72	600	20 to 30	300	20	1.17	0.92	200	3.0	500	100	0.105	0.040	5
300RK.F	400-1200	300	65	471	7930	2.16	1225	10 to 30	550	40	1.44	0.57	200	3.0	500	100	0.100	0.030	6



RECTIFIER DIODE - CAPSULE TYPE

Type	V^{RRM}	IFAV @TC		I_{FSM} 10ms	VFM@IFM Tj = Tj max		V_c	r_T	Tj max	$R_{th(j-c)}$	Fig.No.
		A	°C		A	V					
	V	A	°C	A	V	A	V	mΩ	°C	°C/W	
R450A..C	200-1600	450	95	6050	1.80	1500	0.850	0.70	160	0.090	1
R650A..C	200-1600	650	55	6050	2.08	1500	0.950	0.75	180	0.090	1
R800A..C	200-1600	800	55	8250	1.86	1930	0.800	0.55	190	0.090	1
R920E...C	2600-3400	920	55	5600	1.38	1000	0.700	0.70	160	0.050	2
R1100E..C	200-1600	1100	55	10500	1.44	1500	0.840	0.40	160	0.050	2
R1200E..C	200-1600	1220	55	10500	1.44	1500	0.840	0.60	180	0.038	2
R1400E..C	200-1600	1400	55	13000	1.31	1500	0.780	0.35	160	0.038	2
R1600E..C	200-800	1600	55	16000	1.55	3000	0.750	0.25	160	0.038	2
R750B..C	3200-4400	750	85	10000	1.45	1000	0.800	1.00	160	0.037	3
R1200B..C	400-3600	1180	55	13600	1.66	2000	0.900	0.70	160	0.031	3
R1300B..C	400-2600	1300	55	15000	1.60	4000	0.860	0.50	160	0.033	3
R1600B..C	2000-3000	1600	55	16600	1.64	3000	0.830	0.43	180	0.031	3
R2000B...C	200-2000	2000	55	16600	1.64	3000	0.830	0.24	180	0.031	3
R900K..C	4000-6000	900	60	9200	1.76	1000	1.150	1.70	160	0.023	4
R1700K..C	3200-4200	1700	55	22000	1.15	1000	1.150	0.36	160	0.023	4
R1800K..C	400-3000	1800	55	25000	1.65	3800	0.850	0.37	160	0.023	4
R2000K..C	2000-4500	2080	55	20200	1.81	4000	0.890	0.33	160	0.020	4
R3000K..C	1200-2500	3000	55	31000	1.41	4000	0.760	0.13	160	0.020	4
R3200K..C	800-2200	3270	55	30400	1.47	6000	0.730	0.12	175	0.022	4
R4500K..C	300-600	4540	55	44000	1.02	3000	0.760	0.03	160	0.022	4
R2000L/M..C	5000-6000	2000	55	21800	1.45	3000	0.960	0.42	160	0.017	5,6
R4500L/M..C	200-1400	4500	55	52000	1.05	4000	0.650	0.07	160	0.016	5,6
R4950Q/R..C	1600-3000	4950	55	60000	1.01	2000	0.800	0.10	175	0.012	7,8
R5000S..C	4500-5000	5000	55	55000	1.20	2000	0.800	0.18	160	0.007	9

RECTIFIER DIODE - CAPSULE TYPE FOR WELDING APPLICATION

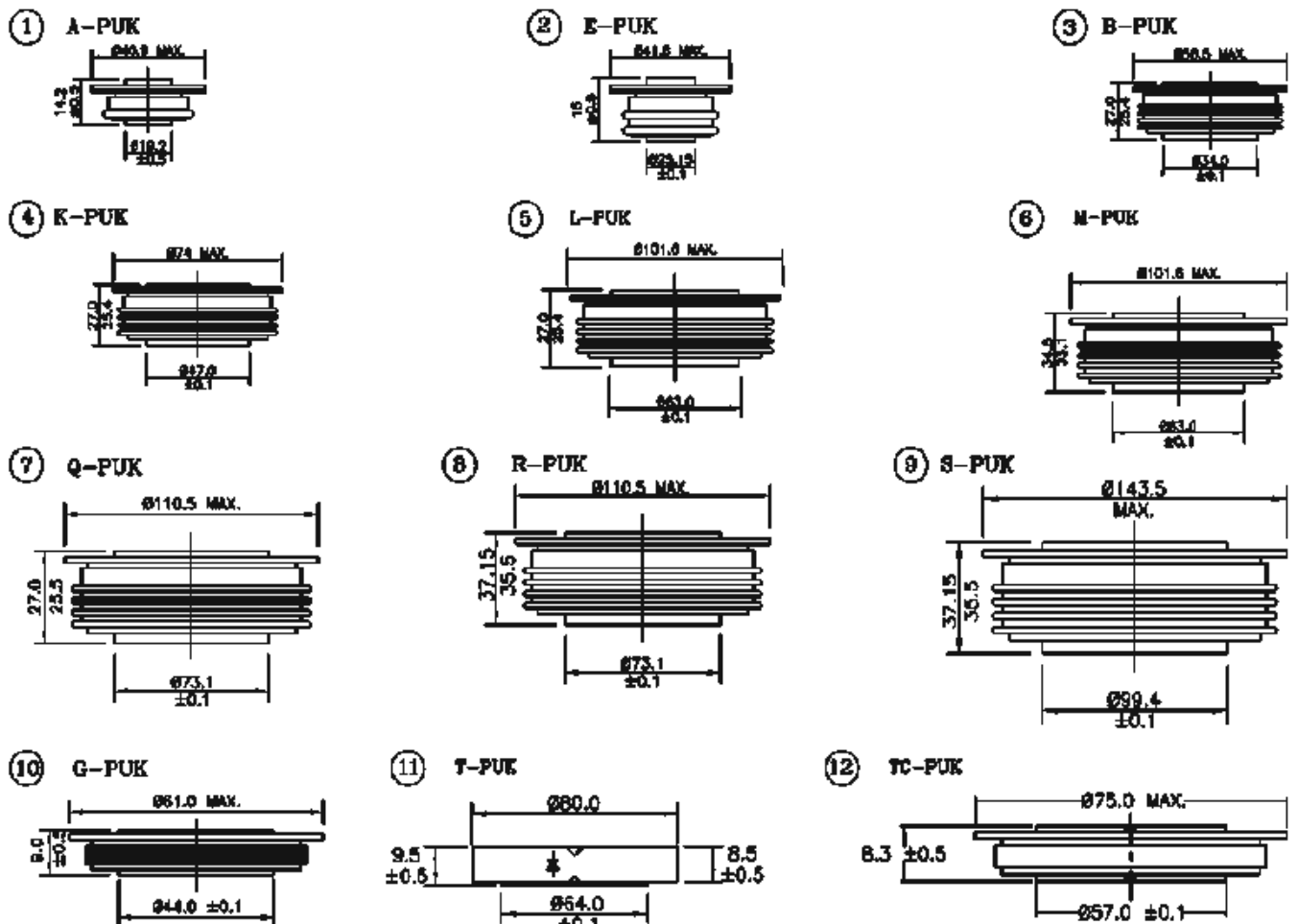
R4000G..C	200-600	3200	85	60000	0.95	4000	0.70	0.04	180	0.030	10
R6000G..C	200-600	6000	85	60000	0.95	4000	0.70	0.04	180	0.030	10
R12000T..C	400-600	12000	55	85000	0.87	4500	0.70	0.15	180	0.0095	11
R12000TC..C	400-600	12000	55	85000	0.87	4500	0.70	0.15	180	0.0095	12



FAST RECOVERY RECTIFIER DIODE - CAPSULE TYPE

Type	V_{RRM}	I_{FAV} @55°C	I_{FSM} 10ms	V_F at I_F @ T_j max		Reverse Recovery Time			V_o	r	T_{jmax}	R_{th-jc}	Fig.
						t_{rr}	@ I_{RM}	di/dt					
V	A	A	V	A	μs	A	A/ μs	V	m Ω	°C	°C/W		
R430A..F	400-2500	430	5770	2.25	1100	2.9	750	25	1.14	0.90	125	0.080	1
R60DE..F	400-2200	600	8320	2.97	1885	3.2	1000	25	1.36	0.70	125	0.050	2
R76DE..F	400-1600	760	9000	1.70	1500	2.0	550	40	1.13	0.40	125	0.050	2
R920B..F	1800-3000	920	13000	2.26	1500	4.5	1000	100	1.51	0.80	150	0.031	3
R1000B..F	1800-3000	1000	14000	1.90	1000	4.5	1000	100	1.51	0.45	150	0.037	3
R990K..F	3000-4500	990	19000	2.90	2000	5	1000	100	1.50	0.80	125	0.020	4
R1200K..F	1700-3000	1200	20000	1.75	1000	4	1000	100	1.15	0.80	150	0.023	4
R1500K..F	1700-2500	1500	21560	2.10	4000	5	1000	60	1.15	0.265	125	0.022	4
R1650K..F	1800-3000	1650	22000	2.60	4000	5	1000	100	1.31	0.400	150	0.020	4
R2000L..F	2000-4500	1995	23600	2.95	2100	7	1000	100	2.35	0.265	150	0.013	5
R2800M..F	1800-2500	2837	35000	1.41	3000	7	1000	60	0.90	0.170	150	0.016	6
R3000Q..F	1600-2400	3000	31800	1.50	3000	7	1000	60	0.90	0.240	150	0.012	7
R3200Q..F	3000-4500	3230	20000	2.00	3000	7	1000	100	1.25	0.150	150	0.012	7

CAPSULE DIODE



ALL DIMENSIONS ARE IN mm.

PHASE CONTROL THYRISTOR - CAPSULE TYPE

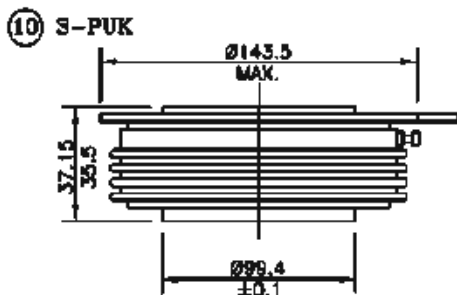
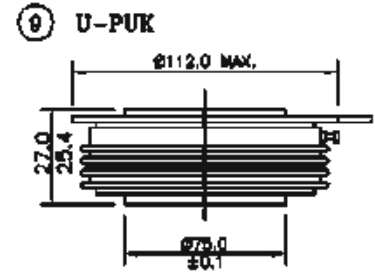
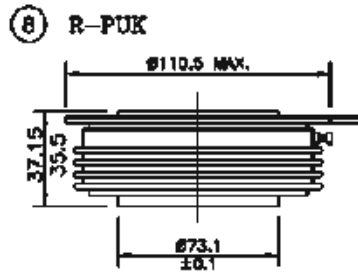
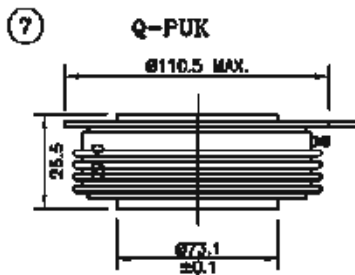
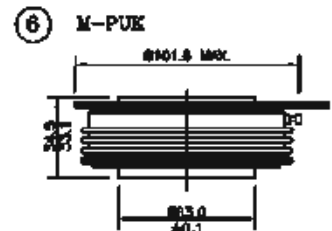
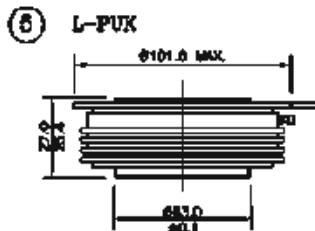
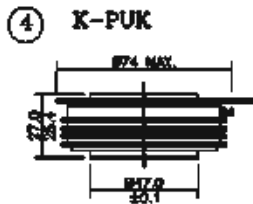
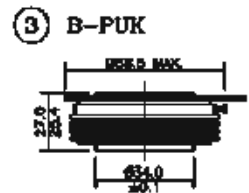
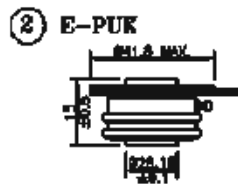
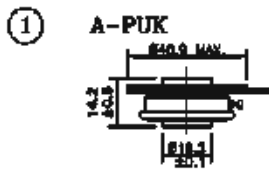
Type	V_{DRM} V_{RRM}	$I_{T(AV)}$	$@T_C$	I_{TSM} 10ms	$V_{TM}@I_{TM}$		V_{TO}	r_T	I_{GT}	V_{GT}	dv/dt	di/dt	$R_{\theta J-hs}$	Fig.
	V	A	$^{\circ}C$	A	V	A	V	m Ω	mA	V	V/ μ s	A/ μ s	K/W	
340PA	1200-1800	323	85	5700	1.90	1000	1.00	0.85	150	3.0	500	100	0.074	1
400PA	200-1700	410	55	5700	1.69	880	0.92	1.21	150	3.0	500	100	0.080	1
450PA	200-1700	450	55	5700	1.69	880	0.92	0.92	150	3.0	500	100	0.080	1
500PA	200-1200	500	55	7850	1.36	1050	0.84	0.74	150	3.0	500	100	0.080	1
550PE	800-1600	550	85	9000	1.65	1500	0.93	0.40	200	3.0	500	100	0.050	2
600PE	200-1600	650	55	9000	1.90	1730	0.91	0.78	200	3.0	500	100	0.050	2
600PE	1500-3000	600	55	7500	2.10	1500	1.14	0.80	200	3.0	500	100	0.050	2
700PE	400-2200	720	55	9000	1.96	1810	0.91	0.85	200	3.0	500	100	0.040	2
900PE	200-600	960	55	15000	1.60	3000	0.85	0.41	200	3.0	500	100	0.040	2
750PB	2500-4500	750	55	5100	2.20	500	1.04	0.70	200	3.0	500	100	0.040	3
760PB	800-1600	760	83	13000	1.65	2400	0.92	0.25	200	3.0	500	100	0.040	3
900PB	1200-2200	910	55	15700	1.80	2000	1.00	0.66	200	3.0	500	100	0.031	3
1000PB	400-1800	1000	55	17800	1.62	2000	0.98	0.52	200	3.0	500	100	0.031	3
1200PB	400-1200	1200	55	17800	1.55	2000	1.06	0.28	200	3.0	500	100	0.031	3
1300PB	400-600	1350	55	24400	1.31	3600	0.80	0.26	200	3.0	500	100	0.031	3
550PK	5500-7000	550	70	5500	2.00	500	1.30	2.00	200	3.0	500	100	0.025	4
800PK	4100-4500	800	70	8000	2.00	1000	1.14	0.80	200	3.0	500	100	0.025	4
1160PK	3400-4200	1160	55	14500	2.15	1830	1.10	0.45	250	3.0	500	100	0.025	4
1300PK	2800-3600	1300	55	18000	1.70	1000	1.10	0.40	250	3.0	500	100	0.023	4
1400PK	1200-2800	1473	55	20000	1.80	3000	0.95	0.28	250	3.0	500	100	0.024	4
1450PK	1200-2400	1450	55	19400	1.30	1000	1.00	0.28	250	3.0	500	100	0.024	4
1500PK	2000-3000	1500	55	23600	1.30	1000	1.02	0.25	250	3.0	500	100	0.024	4
1650PK	1200-2400	1650	55	20000	1.73	4000	0.91	0.21	250	3.0	500	100	0.024	4
1700PK	600-2200	1745	55	33500	1.85	4000	0.93	0.17	250	3.0	500	100	0.024	4
1950PK	800-1600	1950	55	26250	1.40	3000	0.94	0.12	250	3.0	500	100	0.024	4
2000PK	400-1800	2000	58	36000	1.40	3000	0.82	0.12	250	3.0	500	100	0.024	4
2200PK	200-600	2310	55	42500	1.44	4000	0.83	0.11	250	3.0	500	100	0.021	4
2500PK	200-800	2500	55	42500	1.25	4000	0.83	0.08	250	3.0	500	100	0.021	4
1500PL/PM	1600-3800	1500	55	25000	2.17	3200	1.04	0.45	250	3.0	500	100	0.017	5,6
1650PL/PM	1600-3600	1650	55	25000	2.17	3200	1.04	0.36	250	3.0	500	100	0.017	5,6
1660PL/PM	3000-3600	1660	55	23000	2.17	3220	1.04	0.35	250	3.0	500	100	0.017	5,6
1700PL/PM	2400-3000	1700	55	30000	2.08	3220	1.05	0.33	250	3.0	500	100	0.017	5,6
2200PL/PM	1200-2000	2200	55	26400	1.70	4000	0.96	0.17	250	3.0	500	100	0.017	5,6
2500PL/PM	1200-1800	2500	55	37000	1.20	2000	0.88	0.12	250	3.0	500	100	0.017	5,6
2000PQ/PR	3500-4500	2000	55	24400	1.85	2000	1.35	0.32	250	3.0	500	100	0.012	7,8
2200PQ/PR	2800-3800	2200	55	27000	1.71	2000	1.16	0.28	250	3.0	500	100	0.012	7,8
2400PQ/PR	1800-2800	2400	55	32800	1.35	2000	0.78	0.28	250	3.0	500	100	0.012	7,8
2500PQ/PR	2400-3600	2500	55	27000	1.71	2000	1.06	0.25	250	3.0	500	100	0.011	7,8
2800PQ/PR	1800-3600	2824	55	40000	1.87	4000	0.97	0.16	250	3.0	500	100	0.012	7,8
3000PQ/PR	2000-3500	3000	55	52000	1.55	2000	0.88	0.14	250	3.0	500	100	0.012	7,8
4000PQ/PR	600-1400	4000	55	60000	1.10	3000	0.85	0.06	250	3.0	500	100	0.012	7,8
3500PQ	3000-4200	3476	55	52000	1.87	5000	0.97	0.18	300	3.0	500	100	0.008	9
2500PU	3500-4500	2500	55	24400	1.85	2000	1.35	0.35	300	3.0	500	100	0.008	9
3000PU	4500-5200	2960	55	36000	2.10	4000	1.23	0.24	300	3.0	500	100	0.008	9
3500PU	2200-3200	3476	55	52000	1.87	5000	0.97	0.18	300	3.0	500	100	0.008	9
3740PU	2200-2800	3740	70	60000	1.23	3000	0.95	0.10	300	3.0	500	100	0.008	9
4400PU	2000-3200	4400	55	64000	1.40	4000	0.90	0.10	300	3.0	500	100	0.008	9
3000PS	3000-5200	3000	55	54000	1.70	3000	0.81	0.34	300	3.0	500	100	0.007	10
3700PS	4500-5000	3700	55	50000	2.00	4000	1.00	0.19	300	3.5	500	100	0.007	10
3900PS	3500-4500	3900	55	37500	1.90	2000	1.15	0.15	300	4.0	500	100	0.007	10
4400PS	2700-3200	4400	55	56000	1.50	4000	0.94	0.12	300	4.0	500	100	0.007	10
5000PS	1600-2800	5000	55	60000	1.30	4000	0.94	0.09	300	5.0	500	100	0.007	10

Note: dv/dt 1000V/ μ s is available on request.

THYRISTOR INVERTER GRADE - CAPSULE TYPE

Type	V_{DRM}	V_{RRM}	I_{TAV}	TC	I_{TSM}	VTM@ITM		Turn-off	θ_{TSM}	di/dt	V_{T0}	r_T	IGT	VGT	dv/dt	dI/dt	R_{thj-c}	Fig.
	V	A	$^{\circ}C$	A	V	A	μs	A	A/ μs	V	m Ω	mA	V	V/ μs	A/ μs	K/J/W		
330PA..F	200-1200	330	65	4680	2.07	600	15-30	300	20	1.55	1.30	150	3.0	500	100	0.060	1	
370PA..F	200-1200	370	65	4800	1.80	600	10-20	300	20	1.40	0.98	150	3.0	500	100	0.060	1	
620PE..F	200-1200	620	55	7950	2.18	1255	10-30	300	20	1.44	0.94	150	3.0	500	100	0.040	2	
750PB..F	800-1400	750	55	9000	2.21	1000	55	1000	25	1.03	0.70	150	3.0	500	100	0.040	3	
830PB..F	800-1200	830	55	9000	2.80	2000	25	1000	80	1.50	0.15	150	3.0	500	100	0.040	3	
1050PK..F	1400-2000	1050	65	12000	2.10	1000	40-45	1000	25	1.57	0.40	200	3.0	500	100	0.025	4	
1125PK..F	1400-2000	1125	65	20000	2.10	1000	30-50	1000	25	1.54	0.258	200	3.0	500	100	0.023	4	
1200PK..F	1400-2100	1200	55	13000	1.70	1000	40-60	1000	25	1.31	0.35	200	3.0	500	100	0.025	4	
1350PK..F	1400-2100	1350	65	20000	1.46	1000	40-60	1000	25	1.20	0.23	200	3.0	500	100	0.023	4	
1450PK..F	600-1200	1446	55	20000	1.70	2000	20-35	1000	80	1.30	0.22	200	3.0	500	100	0.023	4	
2800PR..F	1400-2500	2800	55	38000	1.55	2000	80-80	1000	25	1.31	0.14	200	3.0	500	100	0.012	8	
3300PR..F	800-1200	3370	65	43000	1.54	4000	15-25	4000	80	1.35	0.064	200	3.0	500	100	0.011	8	

CAPSULE THYRISTOR



ALL DIMENSIONS ARE IN mm.

POWER MODULES - DIODE / DIODE

Type No.	$I_{F(AV)}$	@ T_C	V_{RRM} RANGE	I_{FSM}	V_{FM}	@ I_{FM}	V_o	r	$R_{th JC}$	$R_{th CS}$	T_J Max	Ref.Fig.
				10ms			$T_J = T_J \text{ max}$					
	A	$^{\circ}C$	V	A	V	A	V	m Ω	$^{\circ}C/W$	$^{\circ}C/W$	$^{\circ}C$	
IRK-41	40	85	400 to 1600	850	1.65	126	0.88	5.90	0.230	0.100	135	1
IRK-56	55	100	400 to 1600	1600	1.35	173	0.71	3.76	0.325	0.100	135	1
IRK-71	70	100	400 to 1600	1790	1.30	220	0.61	2.80	0.285	0.100	135	1
IRK-91	90	100	400 to 1600	2020	1.30	283	0.66	1.81	0.220	0.100	135	1
IRK-105	105	87	400 to 1600	2020	1.34	330	0.66	1.81	0.220	0.100	135	1
IRK-166	165	100	400 to 1600	4000	1.57	518	0.70	1.69	0.200	0.035	135	2
IRK-196	195	100	400 to 1600	4750	1.32	612	0.75	0.92	0.200	0.035	135	2
IRK-236	230	100	400 to 1600	6540	1.26	722	0.79	0.64	0.170	0.035	135	2
IRK-250	250	100	400 to 1600	7015	1.29	785	0.79	0.63	0.160	0.020	135	3
IRK-270	270	100	400 to 1600	8920	1.48	848	0.74	0.94	0.125	0.020	135	3
IRK-320	320	100	400 to 1600	10110	1.28	1005	0.69	0.59	0.125	0.020	135	3
IRK-350	350	100	400 to 1600	10110	1.25	1100	0.69	0.59	0.125	0.035	135	3
IRK-570	570	100	1200 to 2800	15000	1.30	1700	0.80	0.38	0.065	0.020	135	4
IRK-700	701	100	1200 to 2200	22500	1.30	2000	0.70	0.15	0.072	0.020	135	4
IRK-1000	1000	100	400 to 1600	31000	1.41	4000	0.85	0.15	0.042	0.020	135	5
IRK-95F	95	75	400 to 600	1080	2.05	300	1.01	3.5	0.450	0.550	125	1
IRK-196F	195	100	400 to 600	4750	1.65	612	0.75	0.92	0.200	0.035	125	2

HIGH VOLTAGE DIODE / DIODE MODULES

IRK231	230	100	1400-2600	7015	1.29	722	0.79	0.63	0.160	0.035	135	3
IRK320	320	100	4600-6500	7000	2.40	1570	0.95	1.10	0.068	0.020	135	4
IRK435	435	85	3000-4200	12000	2.30	2100	0.85	0.33	0.065	0.020	135	4

POWER MODULES - NON-ISOLATED (3 THYRISTOR)

Type No.	$I_{T(AV)}$	@ T_C	I_{RMS}	V_{RRM}	I_{TSM}	I^2t	V_{TM}	@ I_{TM}	V_{GT}	I_{GT}	dv/dt	dI/dt	$R_{th JC}$	T_J Max.	Ref.Fig.
					10ms										
	A	$^{\circ}C$	A	V	A	$A^2Sec.$	V	A	V	mA	V/ μ Sec	A/ μ Sec	$^{\circ}C/W$	$^{\circ}C$	
RHTT60A40	60	123	94	400	1640	13500	1.25	180	2.0	150	50	50	0.35	150	6
RHTT80A40	80	116	125	400	2280	26000	1.20	240	2.0	150	50	50	0.35	150	6
RHTT100A40	100	114	157	400	3200	51000	1.20	314	2.0	150	50	50	0.30	150	6
RHTT130A40	130	112	204	400	3200	51000	1.20	410	2.0	150	50	50	0.20	150	6
RHTT200A40	200	121	314	400	5400	1499400	1.20	630	2.0	150	200	50	0.12	150	7

POWER MODULES - THYRISTOR / THYRISTOR. THYRISTOR / DIODE

Type No.	I_{TAV}	θ_{TC}	V_{RSM} RANGE	I_{TSM}	V_{TSM}	θ_{TSM}	V_o	r	V_{GT}	I_{GT}	dv/dt	di/dt	R_{thJC}	R_{thCS}	T_j Max	Ref. Fig.
	I_{TAV}	θ_{TC}	V	I_{TSM}	V_{TSM}	I_{TSM}	$T_j=T_j$ max	m Ω	V	mA	V/ μ Sec	A/ μ Sec	W	W	θ_{TC}	
	A	θ_{TC}	V	A	V	A	V	m Ω	V	mA	V/ μ Sec	A/ μ Sec	W	W	θ_{TC}	
IRK-26	27	85	400 to 1600	595	1.95	85	0.91	12.4	2.5	150	500	100	0.310	0.10	125	1
IRK-41	45	85	400 to 1600	850	1.81	141	0.90	6.58	2.5	150	500	100	0.230	0.10	125	1
IRK-56	60	85	400 to 1600	1310	1.54	188	0.81	3.35	2.5	150	500	100	0.200	0.10	125	1
IRK-71	76	85	400 to 1600	1666	1.59	236	0.78	2.98	2.5	160	500	100	0.166	0.10	125	1
IRK-81	95	85	400 to 1600	1785	1.58	298	0.78	5.00	2.5	150	500	100	0.195	0.10	125	1
IRK-105	105	85	400 to 1600	1785	1.64	330	0.80	2.37	2.5	150	500	100	0.135	0.10	125	1
IRK-136	135	85	400 to 1600	3200	1.66	424	0.99	1.62	3.0	200	500	100	0.200	0.035	125	2
IRK-142	140	85	400 to 1600	4750	1.32	440	1.14	1.29	3.0	200	500	100	0.170	0.035	125	2
IRK-162	160	85	400 to 1600	5100	1.26	503	0.88	1.20	3.0	200	500	100	0.170	0.035	125	2
IRK-170	170	85	400 to 1600	5100	1.60	534	0.89	1.34	3.0	200	500	100	0.170	0.020	125	3
IRK-230	230	85	400 to 1600	7500	1.59	722	1.03	0.77	3.0	200	500	100	0.125	0.020	125	3
IRK-250	250	85	400 to 1600	8500	1.44	785	0.97	0.80	3.0	200	500	100	0.125	0.020	125	3
IRK-260	260	79	400 to 2200	7500	1.55	750	0.90	0.75	3.0	200	500	100	0.110	0.020	125	3
IRK-330	330	85	400 to 1800	8000	1.44	1036	0.80	0.45	2.0	200	500	100	0.110	0.020	125	3
IRK-500	540	85	400 to 1800	15000	1.60	1500	0.92	0.24	3.0	200	500	100	0.062	0.020	125	4
IRK-570	570	85	400 to 1800	15500	1.44	1700	0.78	0.20	3.0	200	500	100	0.069	0.020	125	4
IRK-650	650	85	1000 to 1200	14000	1.40	1978	0.85	0.10	2.5	250	500	100	0.065	0.020	125	4
IRK-715	715	85	1000 to 1800	28000	1.45	2512	0.85	0.20	2.5	250	500	100	0.050	0.016	125	5
IRK-800	800	78	1000 to 1800	28000	1.45	2512	0.85	0.20	2.5	250	500	100	0.050	0.016	125	5
IRK-1000	1000	77	1000 to 1200	32000	1.25	3140	0.90	0.04	2.5	250	500	100	0.050	0.016	125	5

Note: dv/dt 1000V/us is available on request.

HIGH VOLTAGE - THYRISTOR / THYRISTOR. THYRISTOR / DIODE MODULES

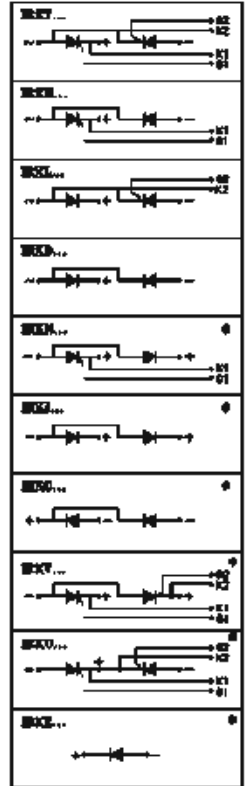
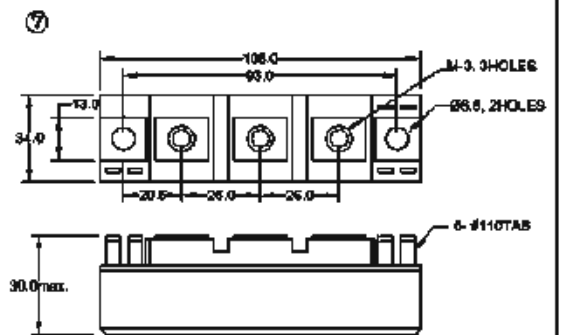
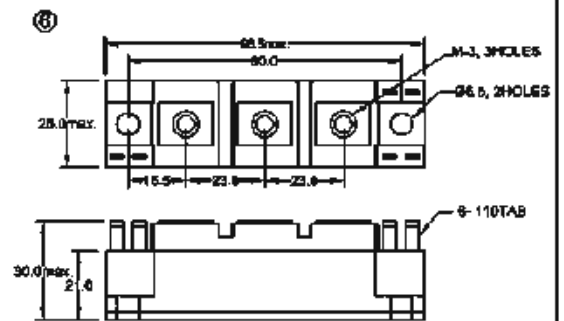
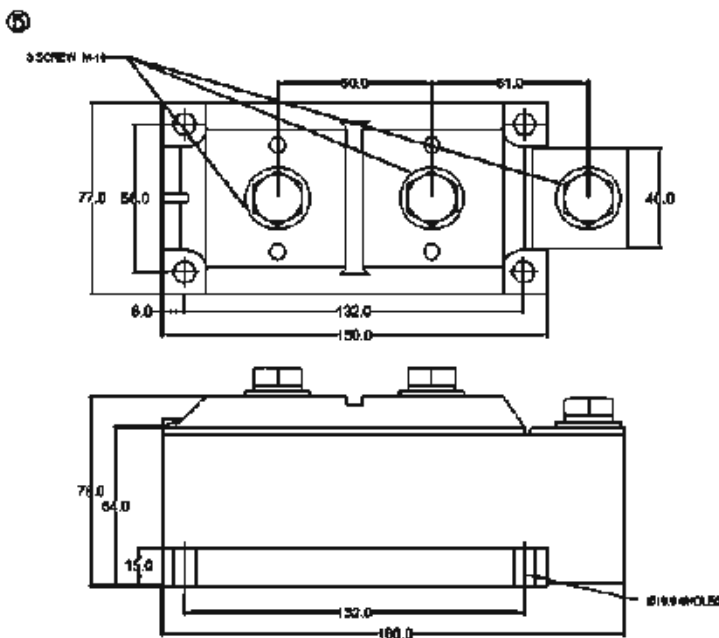
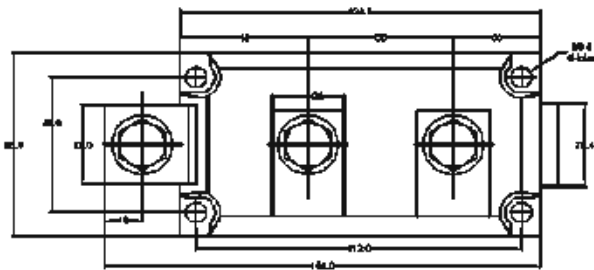
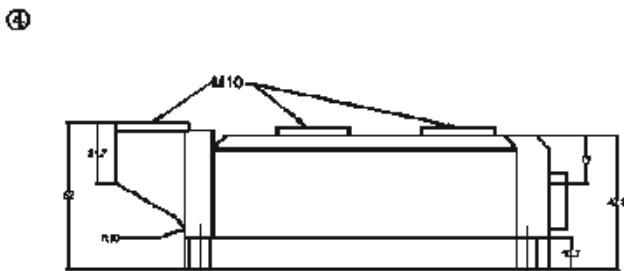
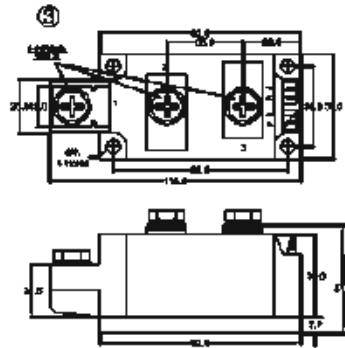
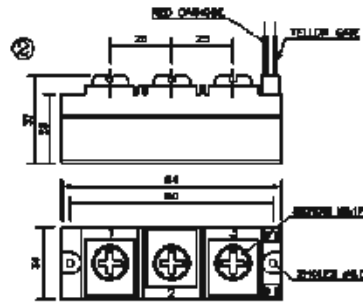
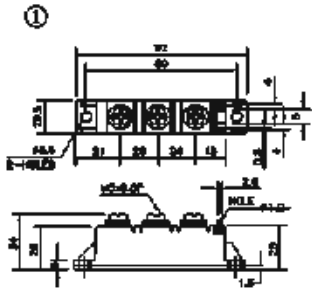
IRK136	130	85	1400-2600	3200	1.66	408	0.98	1.62	3.03	200	500	100	0.2	0.035	125	2
IRK160	160	85	2000-3600	4000	2.6	1000	1.2	2.3	2	200	500	100	0.125	0.04	125	3
IRK185	185	85	1500-3000	7500	2.6	1000	1.14	0.78	2	200	500	100	0.125	0.04	125	3
IRK240	240	85	2800-3600	5400	3.43	1200	1.17	1.7	2	200	500	100	0.078	0.02	125	4



HIGH POWER MODULES

PHYSICAL DIMENSIONS

MODULE CIRCUITS



DIODE BRIDGE RECTIFIER - SINGLE PHASE

Type No.	$I_{O(AV)}$ A	V_{FM} Per Diode V	@ I_{FM} A	@ T_{amb} °C	Voltage Range V	I_{FSM} A	T_j max °C	Physical Dimension Ref.Fig.
26MB	25	1.10	40	65	200-1600	330	150	1
36MB	35	1.20	55	60	200-1600	400	150	1
51MB	50	1.10	55	60	200-1600	450	150	1

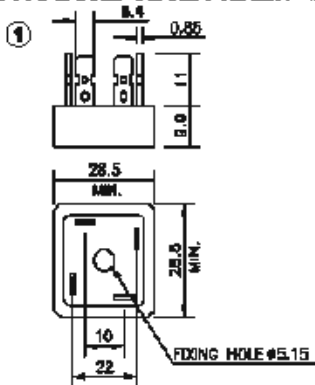
DIODE BRIDGE RECTIFIER - THREE PHASE

Type No.	$I_{O(AV)}$ A	V_{FM} Per Diode V	@ I_{FM} A	@ T_{amb} °C	Voltage Range V	I_{FSM} A	f_t A ² Sec	T_j max °C	Physical Dimension Ref.Fig.
26MT	25	1.26	40	70	200-1600	360	635	150	2
36MT	35	1.19	40	60	200-1600	475	1130	150	2

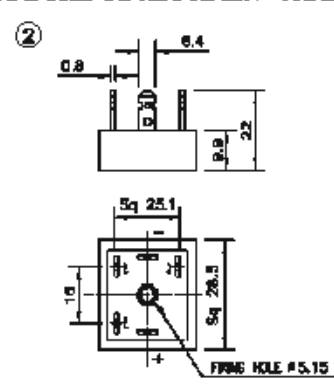
ULTRA FAST RECOVERY DIODE MODULE

Type No.	$I_{p(AV)}$ A	@ T_c °C	V_{RRM} RANGE V	I_{FSM} A	V_{FM} V	@ I_{FM} A	t_{rr} IFM=100A, VR=200V di/dt=100A/us ns	$R_{th JC}$ °C/W	T_j °C	Physical Dimension Ref.Fig.
RIRP200..F	200	100	200 - 400	2000	1.3	200	90	0.320	150	3
RIRP300..F	300	100	200 - 400	2500	1.75	300	90	0.320	150	3
RIRP400..F	400	100	200 - 400	2500	1.95	400	90	0.320	150	3

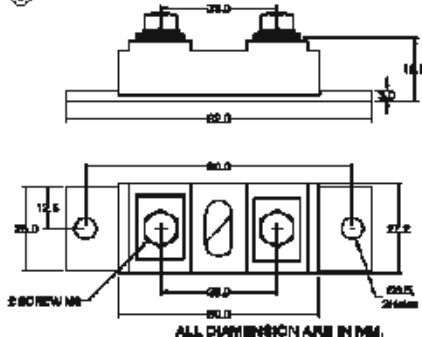
DIODE BRIDGE RECTIFIER - SINGLE PHASE



DIODE BRIDGE RECTIFIER - THREE PHASE

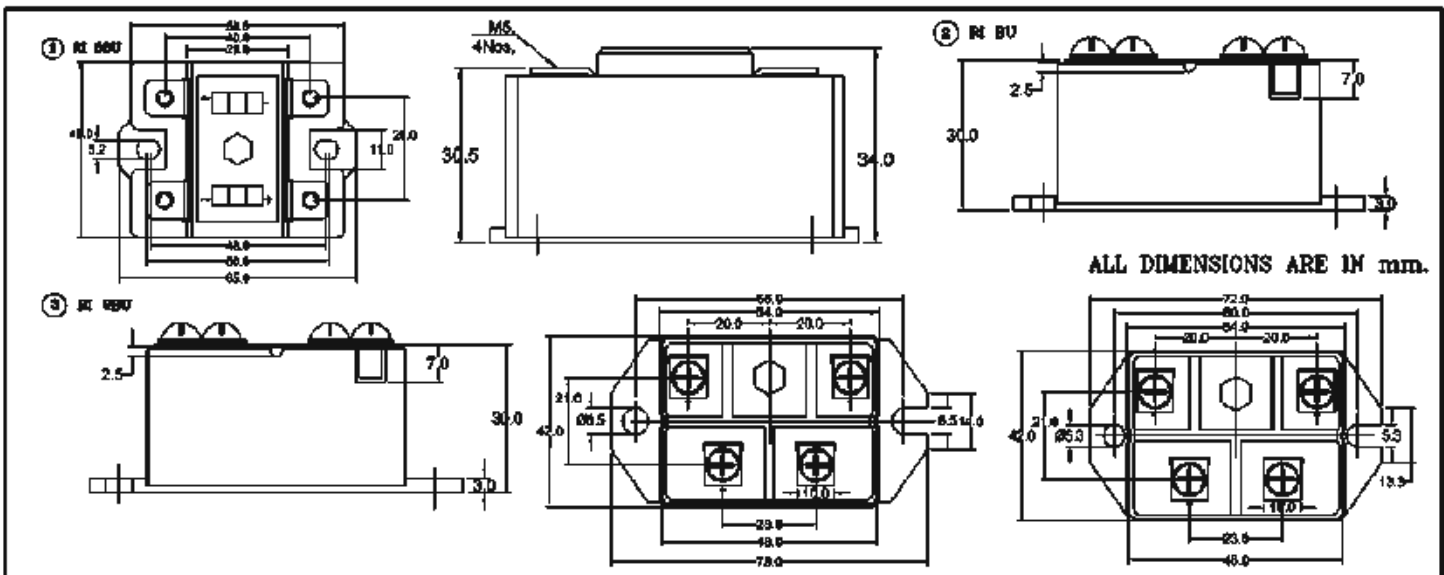


ULTRA FAST RECOVERY DIODE MODULE



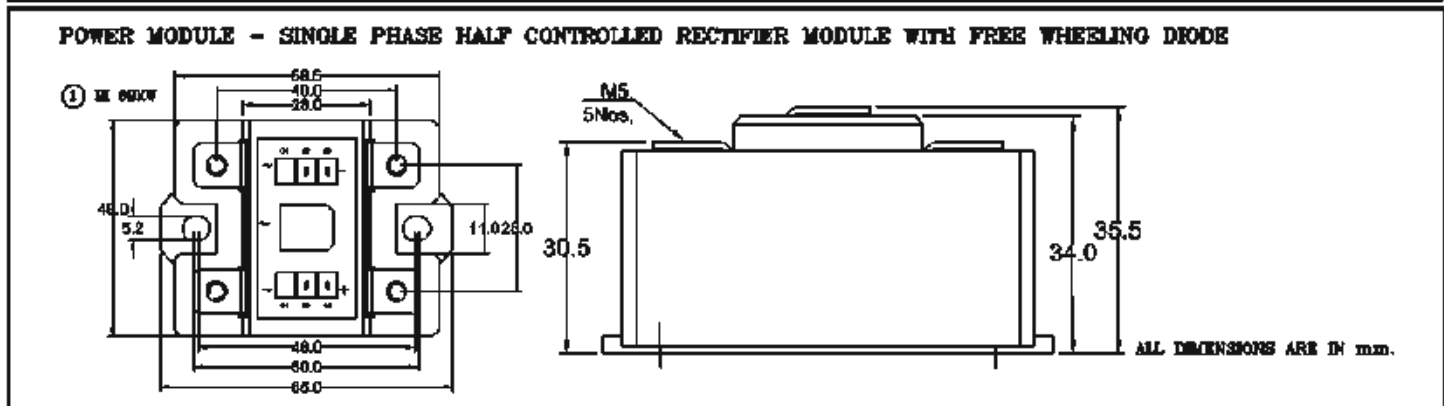
SINGLE PHASE DIODE BRIDGE MODULE

Type No.	Voltage Range	I_{AV}	T_c	V_{FM} Per Diode	I_{TSM}	I_{RSM} 10ms	V_{TO} $T_J = T_J \text{ max}$	r_{θ}	R_{thJC}	$T_J - \text{max}$	V_{ins}	Fig.
	V	A	$^{\circ}\text{C}$	V	A	A	V	m Ω	$^{\circ}\text{C/W}$	$^{\circ}\text{C}$	V	
RI 8BU30	400 - 1800	30	110	1.3	80	370	0.85	12	0.545	125	2500	1
RI 8BU60	400 - 1800	60	88	1.6	150	1000	0.85	5	0.300	125	2500	1
RIBU52	400 - 1800	50	99	1.8	150	500	0.85	8	0.375	150	2500	2
RIBU72	400 - 1800	70	101	1.6	150	750	0.85	5	0.275	150	2500	2
RI 8BU25	400 - 1800	30	110	1.3	80	370	0.85	12	0.250	125	2500	3
RI 8BU55	400 - 1800	52	100	1.75	75	370	0.85	12	0.200	125	2500	3



SINGLE PHASE HALF CONTROLLED BRIDGE RECTIFIER MODULE

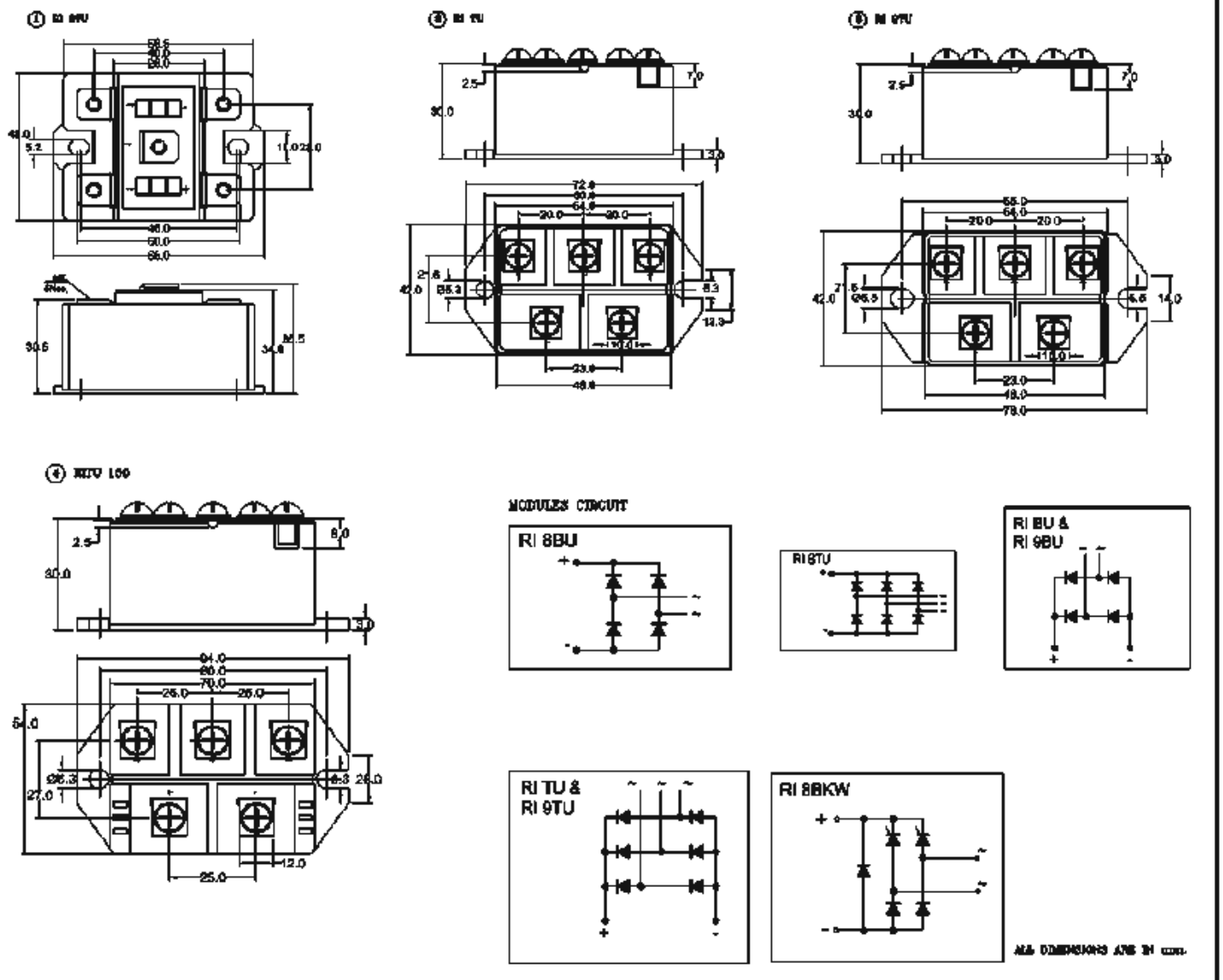
Type No.	I_{TAV}	TC	V_{RSM}	I_{TSM}	V_{TM} Per SCR	I_{TM}	V_{GT}	I_{GT}	dv/dt	di/dt	R_{thJC}	T_J Range	Fig.
			Range	10ms	Per Diode								
			V	A	V								
RIBBKW	41	88	800-1400	470	2.3	75	2.0	80	500	150	1	-40 to 125	1
RIBBKW	61	85	800-1400	470	2.3	75	2.0	80	500	150	1	-40 to 125	1



THREE PHASE DIODE BRIDGE MODULES

Type No.	Voltage Range	I_{OAV}	T_c	V_{FM}	$@I_{FM}$	I_{FSM}	V_0	r_0	$R_{\theta jh}$	$T_j \text{ max}$	V_{ins}	Fig.
	V	A	$^{\circ}C$	Per Diode	10ms	A	V	$m\Omega$	$^{\circ}C/W$	$^{\circ}C$	V	
							$T_j = T_j \text{ max}$					
RI 8TU30	400-1800	40	90	1.3	80	370	0.85	12	0.43	125	2500	1
RI 8TU60	400-1800	60	102	1.6	150	1000	0.85	5	0.167	125	2500	1
RI 8TU100	400-1800	100	93	1.35	150	1150	0.85	5	0.14	125	2500	1
RITU82	400-1800	80	110	1.8	150	500	0.85	8	0.25	150	2500	2
RITU82	400-1800	80	110	1.6	150	750	0.85	5	0.183	150	2500	2
RI 9TU25	400-1800	25	110	1.3	80	370	0.85	12	0.25	125	2500	3
RI 9TU55	400-1800	55	100	1.75	75	370	0.85	12	0.2	125	2500	3
RI 9TU110	400-1800	110	100	1.35	150	1150	0.85	4	0.15	150	2500	3
RITU160	400-1800	160	100	1.85	300	1800	0.85	3	0.11	150	2500	4

THREE PHASE DIODE MODULE



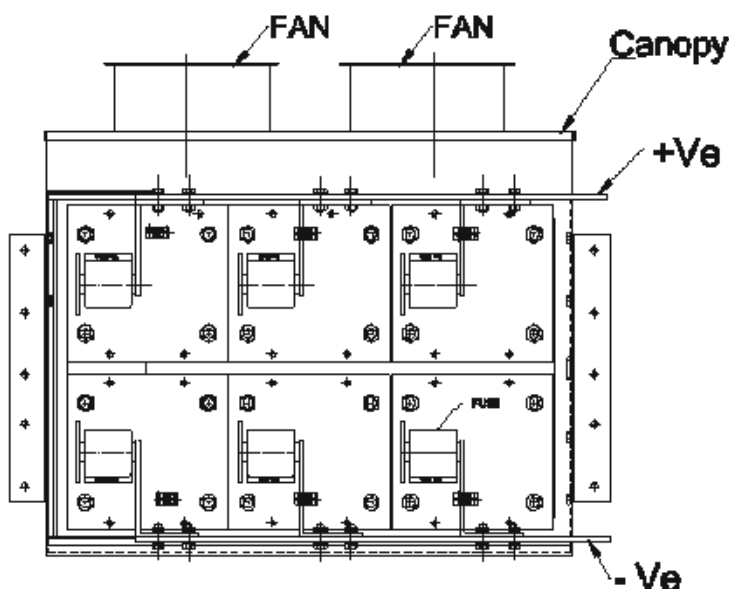
THYRISTOR STACK (B6C)

Sr. No.	Device Type	I/P Voltage	Class -1	Class -2	Class -4	Class -5	Class -6	Stack Size in mm (W x D x H)
			100 % Cont.	150 % For 1 Minute	125% for 2 hrs 200% for 10 Secs	150% for 2 hrs 200% for 1 Min	150% for 2 hrs 300% for 1 Min	
1	600 PE 16	450 V	800 A	560 A	440 A	410 A	280 A	1000 x 600 x 900
2	700 PE 18	450 V	860 A	600 A	475 A	450 A	340 A	1000 x 600 x 900
3	700 PE 18	500 V	1010 A	710 A	575 A	525 A	360 A	1000 x 600 x 900
4	1000 PB 16	450 V	1375 A	975 A	800 A	725 A	500 A	1000 x 600 x 900
5	1200 PK 18	500 V	1675 A	1225 A	1025 A	900 A	640 A	1000 x 600 x 900
6	1200 PK 18	500 V	2090 A	1540 A	1325 A	1125 A	800 A	1000 x 600 x 900
7	1700 PK 18	500 V	2350 A	1740 A	1360 A	1275 A	910 A	1000 x 600 x1000
8	2500 PM 18	500 V	2990 A	2225 A	1770 A	1625 A	1175 A	1000 x 600 x1000
9	3500 PQ 18	550 V	3675 A	2850 A	2325 A	2050 A	1525 A	1000 x 600 x1000
10	3500 PQ 22	700 V	3550 A	2375 A	2225 A	1975 A	1475 A	1000 x 600 x1000
11	2400 PR 22	750 V	1740 A	1275 A	1100 A	925 A	570 A	1000 x 600 x1000
12	2800 PR 22	750 V	2475 A	1850 A	1470 A	1350 A	975 A	1000 x 600 x1000
13	2800 PR 32	1000 V	2350 A	1450 A	1400 A	1275 A	925 A	1000 x 600 x1000

Diode Stack (B6U)

Sr. No.	Device Type	I/P Voltage	Class -1 100 % Cont.	Class -2 150 % For 1 Minute	Recommended Panel Size in mm (W x D x H)
1	R 650 16	415 VAC	1200 A	800 A	1000 x 600 x 900
2	R 1200 160	415 VAC	1800 A	1200 A	1000 x 600 x 900
3	R 2000 K 60	415 VAC	2500 A	1800 A	1000 x 600 x 900
4	R 3000 K 200	660 VAC	3000 A	2000 A	1000 x 600 x 900

Note :- Current Rating are valid for forced cooling of 5 mbr/ Sec air outlet and ambient temp. 45°C Provided with suitable Fuses & Heatlink



WELDING RECTIFIER

Sr. No.	Device Type	In	V _{out}	Duty	Air Speed	V _{max}	Dimensions are mm
		(A)	(V)	Cycle	(m/s)	(V)	
1	S 240	240	100	60 %	4	400	Fig 1
2	S 400	400	100	60 %	4	400	Fig 1
3	S 600	600	100	60 %	4	400	Fig 1
4	S 800	800	100	60 %	4	400	Fig 1

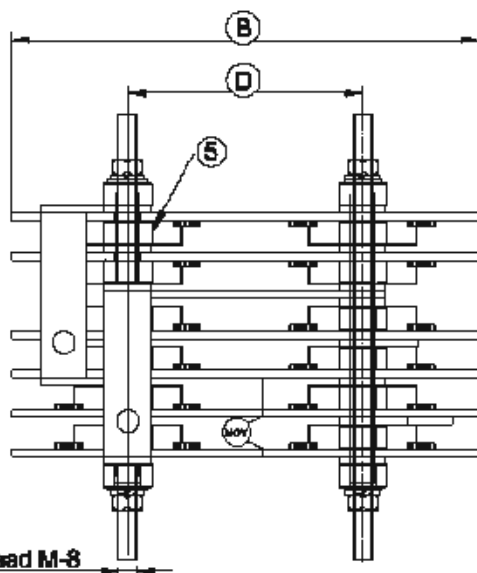
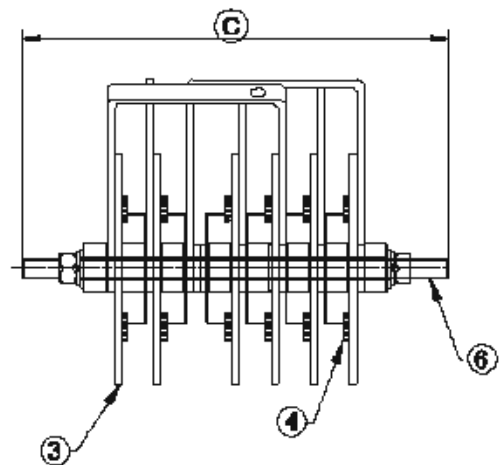
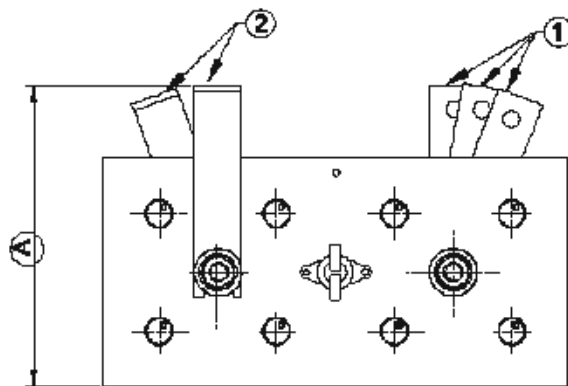
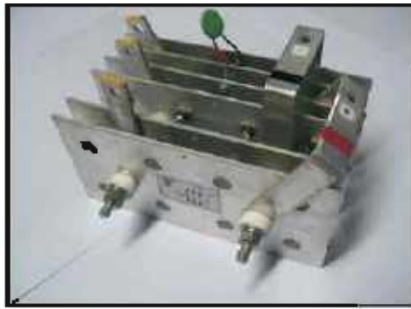


Fig - 1

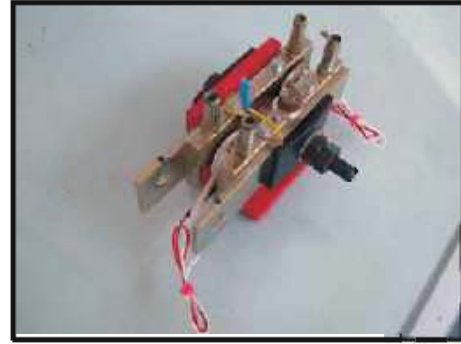
Sr.No.	Description
01	AC Busbar (R,Y,B)
02	DC Busbar (+Ve, -Ve)
03	Alu. Heatsink
04	Auto Diode
05	Ceramic Bush
06	Fixing Stud

SR-NO.	TYPE	A	B	C	D
01	S 240	130	200	190	100
02	S 400	130	200	190	100
03	S 600	135	200	295	100
04	S 800	135	200	295	100

WATER COOLED ASSEMBLIES

Sr.No.	Device Type	V _{ORM} / V _{ORM}	I _{avg} / T _{WATER}	I _{TRM} Sine wave 10 ms	Dimension are mm
		(V)	(A / °C)	(kA)	
1	W1C 600-PA	1600 V	600/ 40	5-6	FIG 1
2	W1C 1000-PE	1600 V	1000/ 40	9-0	FIG 1
3	W1C 1300 PB	1600 V	1300/ 40	17-8	FIG 1
4	W1C 1500-PK	1600 V	1500/ 40	23-6	FIG 1

Water Flow Rate - 4.5 L/min
 Max. Water Pressure - 10 Bar
 Note :- dv/dt - 500 V/μ (Higher dv/dt is available on request)



Sr.No.	TYPE	A	B	C	D	E	F	G
01	W1C 600-PA	50	48	122.5	205	90.0	110.8	51
02	W1C 1000-PE	51	54	122.5	205	90.0	110.8	51
03	W1C 1300 PB	63	59.5	132.0	205	90.0	110.8	51
04	W1C 1500-PK	64	59.5	150.0	215	96.0	120.0	63.2

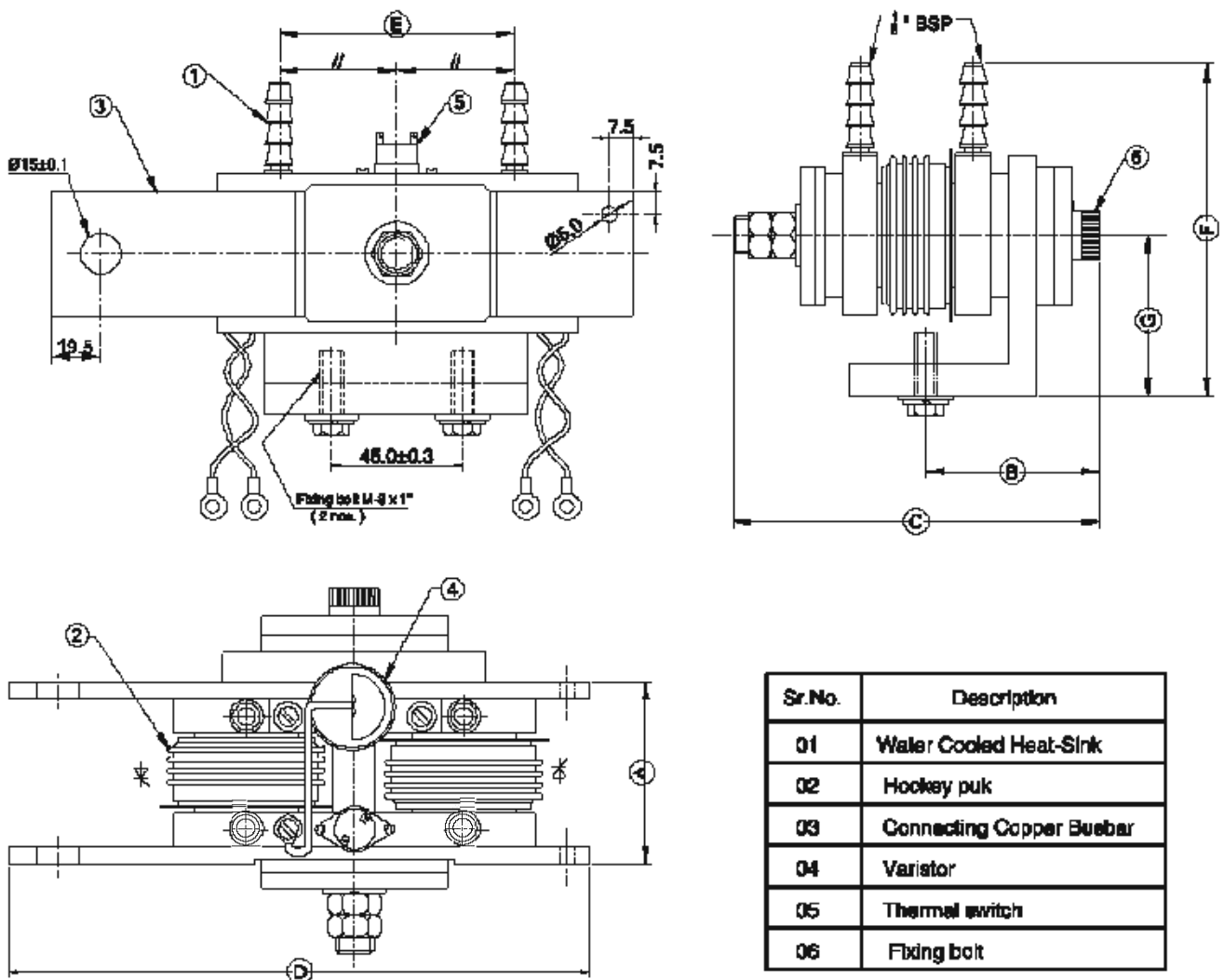


Fig - 1

Sr.No.	Description
01	Water Cooled Heat-Sink
02	Hookay puk
03	Connecting Copper Busbar
04	Varistor
05	Thermal switch
06	Fixing bolt

All Dimensions in M.M.

ISOLATED WATER COOLED MODULE ASSEMBLIES

Fig - 1

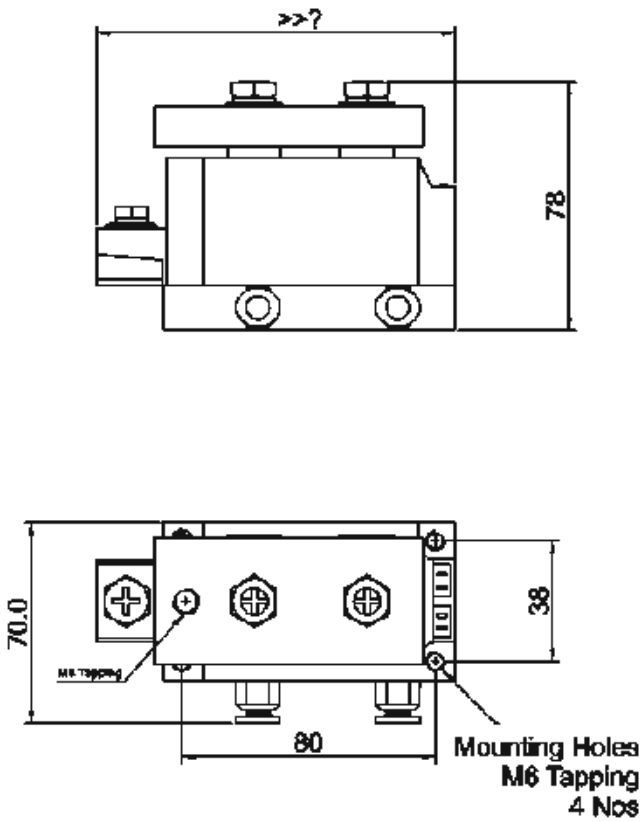
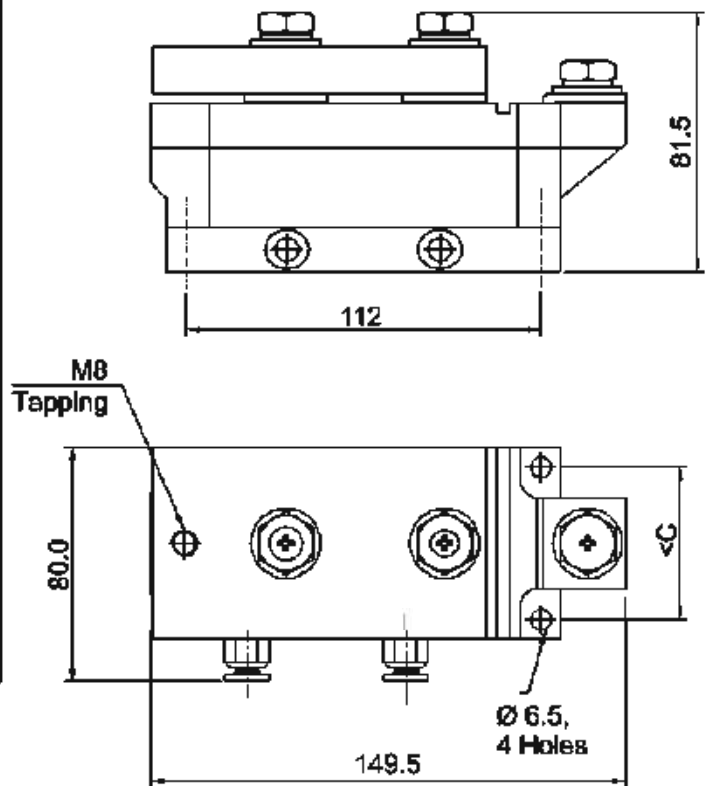


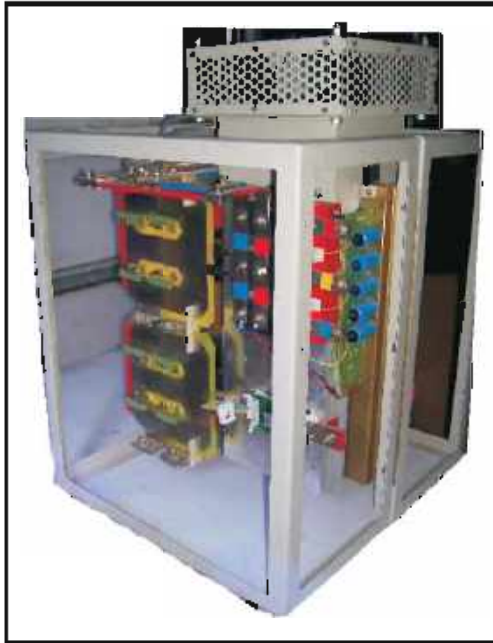
Fig - 2



Isolated Water Cooled Module Assemblies

Sr. No.	Module Type	V_{ORM} / V_{ORM}	I_{RMS} / T_{WATER}	I_{TSM} Sine wave 10 ms	Dimension are mm
		(V)	(A/°C)	(kA)	
1	W1CI - 550 - 16	1600 V	550/ 40	5.6	Fig 1
2	W1CI - 850 - 16	1600 V	850/ 40	9.0	Fig 1
3	W1CI - 1200 - 16	1600 V	1200/ 40	12.5	Fig 2

IGBT STACK



132 KW

3 Phase half Controlled and PWM 3 Phase Inverter in Thermal Stack for AC Motor driver

DC Link - 560V \pm 10%
Voltage 3 x 400V - (1Hz to 50 Hz)
& nominal - 230 Amps RMS
of Switch - 2.4 KHz
3 x 8800 μ F x 800V DC Link



20 KVA UPS SYSTEM

with 3 \emptyset & 1 \emptyset AC Output & with DC link

SR.NO.	Vin/ Vdc Link	O/P ACV	O/P ACA	KVA	Height	Width	Depth	IGBT IN Parallel Per arms	Heatsink	Driver
01	400/540	415	50	36	260	300	250	1 x 2MBI 75/ 120	1xAD80/250	RUTTONSHA
02	400/540	415	100	72	420	340	560	1 x 2MBI 150/120	1xRIR22/300	RUTTONSHA
03	400/540	415	150	108	420	340	820	2 x 2MBI 200/120	1xRIR22/600	CONCEPT
04	400/540	415	200	144	420	340	820	2 x 2MBI 200/120	1xRIR22/600	CONCEPT
05	400/540	415	250	180	900	600	550	3 x 2MBI 200/120	3xRIR22/300	CONCEPT
06	400/540	415	300	216	1000	600	550	3 x 2MBI 200/120	3xRIR22/400	CONCEPT
07	400/540	415	400	288	1100	600	550	4 x 2MBI 300/120	3xRIR22/400	CONCEPT
08	400/540	415	500	359	1100	600	550	4 x 2MBI 400/120	3xRIR22/400	CONCEPT

PRODUCT RANGE

SEMICONDUCTOR DEVICES

- **Diodes – Standard Recovery (Stud-Flat Base)**
6 Amp to 860 Amp – 400 PIV to 4600 PIV
- **Diodes – Fast Recovery (Flat Base)**
6 Amp to 150Amp – 400 PIV to 1200 PIV
- **Diodes – Standard Recovery (Capsule Type)**
650Amp to 12000 Amp – 400 PIV to 6000 PIV
- **Diodes – Fast Recovery (Capsule Type)**
430 Amp to 1650 Amp – 400 PIV to 3000 PIV
- **SCR Phase Control (Stud/Flat Base)**
16 Amps to 400 Amp – 400 PIV to 1600 PIV
- **SCR Inverter (Stud)**
85 Amps to 300 Amp – 400 PIV to 1200 PIV
- **SCR Phase Control (Capsule)**
400 Amp to 8500 Amps – 600 PIV to 7000 PIV
- **SCR Inverter (Capsule)**
330 Amp to 2550 Amps – 600 PIV to 2800 PIV
- **Modules (SCR/SCR, SCR/Diodes, Diode/Diode)**
25 Amp to 1000 Amps, 400 PIV to 2000 PIV
- **Three Thyristor Modules (Non Isolated)**
60 Amps to 200 Amps 400 PIV
- **Single Phase Moulded Bridge**
1 Amp to 100 Amps, 400 PIV to 1600 PIV
- **Three Phase Moulded Bridges**
25 Amps to 160 Amps, 400 PIV to 1600 PIV
- **Three Phase Module Controlled Bridges**
55 Amps to 110 Amps, 800 PIV to 1600 PIV
- **Single Phase Module Controlled Bridges**
25 Amp and 40 Amps, 400 PIV to 1200 PIV
- **Button type Diode Welding Stack**
- **Capsule type Diode Welding Assembly**
- **Converter grade Thyristor Welding Assembly**
- **Water cooled A/c Switches**
- **Surge Suppressors**
- **High Power Diode/Thyristor Stacks**

POWER EQUIPMENTS

- **Battery Chargers**
Upto 220 Volts, 2000 AH. Higher range as per customer's requirement. The battery Charger range includes Conventional Chargers, Float Chargers, Boost Chargers, Traction Chargers.
- **Rectifier Equipments**
Upto 1000 KW. Higher capacity rectifier supplied as per customer's specifications. Range includes rectifiers for electrochemical processes, electroplating, battery plates forming and other industrial applications.
- **Railway Equipments**
DC Traction substation 750 – 1500 V, 3 MW, Electric Loco Rectifiers, Rectifiers for EMUs & DMUs.
- **Invertors**
5 kVA to 50 kVA for industrial and elevator applications.
- **DC Drive Rectifiers**
200 Amps. to 8000 Amps. Upto 1000 VDC.



RUTTONSHA INTERNATIONAL RECTIFIER LIMITED

CORPORATE OFFICE : 139/141 Solaris I, B-Wing, Sald Vihar Road, Powai, Andheri (E), Mumbai - 400 072.
*Tel: +91-22-28471986 / 87 / 88 *Fax: +91-22-28471989 *Email: rirbom@ruttonsha.com

FACTORY : 338, International House, Baska, Halol, Dist. Panchmahals, Pin - 369 350. Gujarat (India)
Tel. : (91-2676) 247281 / 247185 / 247094 • Fax : (91-2676) 247035 • E-mail : rirbak@ruttonsha.com

BANGALORE : Aruna Bldg, 1st Floor, 23 J. C. Road, Bangalore - 560 002
Telefax : +91 80 26703496 • Email : rirbng@ruttonsha.com

URL: www.ruttonsha.com

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General Purpose Rectifiers

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General Purpose Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_O@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
1.0 AMP General Purpose Rectifiers									
1A1	50	1	25	30	1.1	1	5	50	R-1
1A2	100	1	25	30	1.1	1	5	100	R-1
1A3	200	1	25	30	1.1	1	5	200	R-1
1A4	400	1	25	30	1.1	1	5	400	R-1
1A5	600	1	25	30	1.1	1	5	600	R-1
1A6	800	1	25	30	1.1	1	5	800	R-1
1A7	1000	1	25	30	1.1	1	5	1000	R-1
1N4001	50	1	75	30	1	1	5	50	DO-41
1N4002	100	1	75	30	1	1	5	100	DO-41
1N4003	200	1	75	30	1	1	5	200	DO-41
1N4004	400	1	75	30	1	1	5	400	DO-41
1N4005	600	1	75	30	1	1	5	600	DO-41
1N4006	800	1	75	30	1	1	5	800	DO-41
1N4007	1000	1	75	30	1	1	5	1000	DO-41
BY135	200	1	75	30	1.1	1	5	200	DO-41
BY134	600	1	75	30	1.1	1	5	600	DO-41
BY133	1300	1	75	30	1.1	1	5	1300	DO-41
1.0 AMP General Purpose Rectifiers									
M1	50	1	100	30	1.1	1	5	50	SMA/DO-214AC
M2	100	1	100	30	1.1	1	5	100	SMA/DO-214AC
M3	200	1	100	30	1.1	1	5	200	SMA/DO-214AC
M4	400	1	100	30	1.1	1	5	400	SMA/DO-214AC
M5	600	1	100	30	1.1	1	5	600	SMA/DO-214AC
M6	800	1	100	30	1.1	1	5	800	SMA/DO-214AC
M7	1000	1	100	30	1.1	1	5	1000	SMA/DO-214AC
SM4001	50	1	100	30	1.1	1	5	50	SMA/DO-214AC
SM4002	100	1	100	30	1.1	1	5	100	SMA/DO-214AC
SM4003	200	1	100	30	1.1	1	5	200	SMA/DO-214AC
SM4004	400	1	100	30	1.1	1	5	400	SMA/DO-214AC
SM4005	600	1	100	30	1.1	1	5	600	SMA/DO-214AC
SM4006	800	1	100	30	1.1	1	5	800	SMA/DO-214AC
SM4007	1000	1	100	30	1.1	1	5	1000	SMA/DO-214AC
LL4001	50	1	100	30	1.1	1	5	50	MELF
LL4002	100	1	100	30	1.1	1	5	100	MELF
LL4003	200	1	100	30	1.1	1	5	200	MELF
LL4004	400	1	100	30	1.1	1	5	400	MELF
LL4005	600	1	100	30	1.1	1	5	600	MELF
LL4006	800	1	100	30	1.1	1	5	800	MELF
LL4007	1000	1	100	30	1.1	1	5	1000	MELF
1.5 AMP General Purpose Rectifiers									
1N5391	50	1.5	75	50	1.1	1.5	5	50	DO-41
1N5392	100	1.5	75	50	1.1	1.5	5	100	DO-41
1N5393	200	1.5	75	50	1.1	1.5	5	200	DO-41
1N5395	400	1.5	75	50	1.1	1.5	5	400	DO-41
1N5397	600	1.5	75	50	1.1	1.5	5	600	DO-41
1N5398	800	1.5	75	50	1.1	1.5	5	800	DO-41
1N5399	1000	1.5	75	50	1.1	1.5	5	1000	DO-41



General Purpose Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_O@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	μA	V	
1.5 AMP General Purpose Rectifiers									
SM5391	50	1.5	100	50	1.1	1.5	5.0	50	SMA/DO-214AC
SM5392	100	1.5	100	50	1.1	1.5	5.0	100	SMA/DO-214AC
SM5393	200	1.5	100	50	1.1	1.5	5.0	200	SMA/DO-214AC
SM5395	400	1.5	100	50	1.1	1.5	5.0	400	SMA/DO-214AC
SM5397	600	1.5	100	50	1.1	1.5	5.0	600	SMA/DO-214AC
SM5398	800	1.5	100	50	1.1	1.5	5.0	800	SMA/DO-214AC
SM5399	1000	1.5	100	50	1.1	1.5	5.0	1000	SMA/DO-214AC
2.0 AMP General Purpose Rectifiers									
RL201	50	2.0	75	70	1.1	2.0	5.0	50	DO-15
RL202	100	2.0	75	70	1.1	2.0	5.0	100	DO-15
RL203	200	2.0	75	70	1.1	2.0	5.0	200	DO-15
RL204	400	2.0	75	70	1.1	2.0	5.0	400	DO-15
RL205	600	2.0	75	70	1.1	2.0	5.0	600	DO-15
RL206	800	2.0	75	70	1.1	2.0	5.0	800	DO-15
RL207	1000	2.0	75	70	1.1	2.0	5.0	1000	DO-15
2.0 AMP General Purpose Rectifiers									
S2A	50	2.0	80	50	1.15	2.0	5.0	50	SMB/DO-214AA
S2B	100	2.0	80	50	1.15	2.0	5.0	100	SMB/DO-214AA
S2D	200	2.0	80	50	1.15	2.0	5.0	200	SMB/DO-214AA
S2G	400	2.0	80	50	1.15	2.0	5.0	400	SMB/DO-214AA
S2J	600	2.0	80	50	1.15	2.0	5.0	600	SMB/DO-214AA
S2K	800	2.0	80	50	1.15	2.0	5.0	800	SMB/DO-214AA
S2M	1000	2.0	80	50	1.15	2.0	5.0	100	SMB/DO-214AA
3.0 AMP General Purpose Rectifiers									
1N5400	50	3.0	75	200	1.0	3.0	5.0	50	DO-27
1N5401	100	3.0	75	200	1.0	3.0	5.0	100	DO-27
1N5402	200	3.0	75	200	1.0	3.0	5.0	200	DO-27
1N5404	400	3.0	75	200	1.0	3.0	5.0	400	DO-27
1N5406	600	3.0	75	200	1.0	3.0	5.0	600	DO-27
1N5407	800	3.0	75	200	1.0	3.0	5.0	800	DO-27
1N5408	1000	3.0	75	200	1.0	3.0	5.0	1000	DO-27
3.0 AMP General Purpose Rectifiers									
S3A	50	3.0	40	100	1.15	3.0	5.0	50	SMC/DO-214AB
S3B	100	3.0	40	100	1.15	3.0	5.0	100	SMC/DO-214AB
S3D	200	3.0	40	100	1.15	3.0	5.0	200	SMC/DO-214AB
S3G	400	3.0	40	100	1.15	3.0	5.0	400	SMC/DO-214AB
S3J	600	3.0	40	100	1.15	3.0	5.0	600	SMC/DO-214AB
S3K	800	3.0	40	100	1.15	3.0	5.0	800	SMC/DO-214AB
S3M	1000	3.0	40	100	1.15	3.0	5.0	100	SMC/DO-214AB
6.0 AMP General Purpose Rectifiers									
P600A	50	6.0	75	400	1.0	6.0	5.0	50	R-6
P600B	100	6.0	75	400	1.0	6.0	5.0	100	R-6
P600D	200	6.0	75	400	1.0	6.0	5.0	200	R-6
P600G	400	6.0	75	400	1.0	6.0	5.0	400	R-6
P600J	600	6.0	75	400	1.0	6.0	5.0	600	R-6
P600K	800	6.0	75	400	1.0	6.0	5.0	800	R-6
P600M	1000	6.0	75	400	1.0	6.0	5.0	1000	R-6
6A05	50	6.0	75	400	1.0	6.0	5.0	50	R-6
6A1	100	6.0	75	400	1.0	6.0	5.0	100	R-6
6A2	200	6.0	75	400	1.0	6.0	5.0	200	R-6
6A4	400	6.0	75	400	1.0	6.0	5.0	400	R-6
6A6	600	6.0	75	400	1.0	6.0	5.0	600	R-6
6A8	800	6.0	75	400	1.0	6.0	5.0	800	R-6
6A10	1000	6.0	75	400	1.0	6.0	5.0	1000	R-6



Fast Recovery Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	T_{RR}	$I_O@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	nS	A	°C	A	V	A	μA	V	
1.0 AMP Fast Recovery Rectifiers										
1F1	50	150	1.0	25	25	1.3	1.0	5.0	50	R-1
1F2	100	150	1.0	25	25	1.3	1.0	5.0	100	R-1
1F3	200	150	1.0	25	25	1.3	1.0	5.0	200	R-1
1F4	400	150	1.0	25	25	1.3	1.0	5.0	400	R-1
1F5	600	250	1.0	25	25	1.3	1.0	5.0	600	R-1
1F6	800	500	1.0	25	25	1.3	1.0	5.0	800	R-1
1F7	1000	500	1.0	25	25	1.3	1.0	5.0	1000	R-1
FR101	50	150	1.0	75	30	1.3	1.0	5.0	50	DO-41
FR102	100	150	1.0	75	30	1.3	1.0	5.0	100	DO-41
FR103	200	150	1.0	75	30	1.3	1.0	5.0	200	DO-41
FR104	400	150	1.0	75	30	1.3	1.0	5.0	400	DO-41
FR105	600	250	1.0	75	30	1.3	1.0	5.0	600	DO-41
FR106	800	500	1.0	75	30	1.3	1.0	5.0	800	DO-41
FR107	1000	500	1.0	75	30	1.3	1.0	5.0	1000	DO-41
1N4933	50	200	1.0	75	30	1.3	1.0	5.0	50	DO-41
1N4934	100	200	1.0	75	30	1.3	1.0	5.0	100	DO-41
1N4935	200	200	1.0	75	30	1.3	1.0	5.0	200	DO-41
1N4936	400	200	1.0	75	30	1.3	1.0	5.0	400	DO-41
1N4937	600	200	1.0	75	30	1.3	1.0	5.0	600	DO-41
BA157	400	150	1.0	75	30	1.3	1.0	5.0	400	DO-41
BA158	600	250	1.0	75	30	1.3	1.0	5.0	600	DO-41
BA159	1000	500	1.0	75	30	1.3	1.0	5.0	1000	DO-41
1.0 AMP Fast Recovery Rectifiers										
SM4933	50	150	1.0	75	30	1.3	1.0	5.0	50	SMA/DO-214AC
SM4934	100	150	1.0	75	30	1.3	1.0	5.0	100	SMA/DO-214AC
SM4935	200	150	1.0	75	30	1.3	1.0	5.0	200	SMA/DO-214AC
SM4936	400	150	1.0	75	30	1.3	1.0	5.0	400	SMA/DO-214AC
SM4937	600	150	1.0	75	30	1.3	1.0	5.0	600	SMA/DO-214AC
2.0 AMP Fast Recovery Rectifiers										
FR201	50	150	2.0	75	70	1.3	2.0	5.0	50	DO-15
FR202	100	150	2.0	75	70	1.3	2.0	5.0	100	DO-15
FR203	200	150	2.0	75	70	1.3	2.0	5.0	200	DO-15
FR204	400	150	2.0	75	70	1.3	2.0	5.0	400	DO-15
FR205	600	250	2.0	75	70	1.3	2.0	5.0	600	DO-15
FR206	800	500	2.0	75	70	1.3	2.0	5.0	800	DO-15
FR207	1000	500	2.0	75	70	1.3	2.0	5.0	1000	DO-15
2.0 AMP Fast Recovery Rectifiers										
FR2A	50	150	2.0	90	50	1.3	2.0	5.0	50	SMB/DO-214AA
FR2B	100	150	2.0	90	50	1.3	2.0	5.0	100	SMB/DO-214AA
FR2D	200	150	2.0	90	50	1.3	2.0	5.0	200	SMB/DO-214AA
FR2G	400	150	2.0	90	50	1.3	2.0	5.0	400	SMB/DO-214AA
FR2J	600	250	2.0	90	50	1.3	2.0	5.0	600	SMB/DO-214AA
FR2K	800	500	2.0	90	50	1.3	2.0	5.0	800	SMB/DO-214AA



Fast Recovery Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	T_{RR}	$I_O@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	nS	A	°C	A	V	A	μA	V	
3.0 AMP Fast Recovery Rectifiers										
FR301	50	150	3.0	75	200	1.3	3.0	5.0	50	DO-27
FR302	100	150	3.0	75	200	1.3	3.0	5.0	100	DO-27
FR303	200	150	3.0	75	200	1.3	3.0	5.0	200	DO-27
FR304	400	150	3.0	75	200	1.3	3.0	5.0	400	DO-27
FR305	600	250	3.0	75	200	1.3	3.0	5.0	600	DO-27
FR306	800	500	3.0	75	200	1.3	3.0	5.0	800	DO-27
FR307	1000	500	3.0	75	200	1.3	3.0	5.0	100	DO-27
3.0 AMP Fast Recovery Rectifiers										
BY396	100	150	3.0	75	200	1.3	3.0	10.0	100	DO-27
BY397	200	150	3.0	75	200	1.3	3.0	10.0	200	DO-27
BY398	400	150	3.0	75	200	1.3	3.0	10.0	400	DO-27
BY399	800	500	3.0	75	200	1.3	3.0	10.0	800	DO-27
3.0 AMP Fast Recovery Rectifiers										
FR3A	50	150	3.0	75	100	1.3	3.0	10.0	50	SMC/DO-214AB
FR3B	100	150	3.0	75	100	1.3	3.0	10.0	100	SMC/DO-214AB
FR3D	200	150	3.0	75	100	1.3	3.0	10.0	200	SMC/DO-214AB
FR3G	400	150	3.0	75	100	1.3	3.0	10.0	400	SMC/DO-214AB
FR3J	600	250	3.0	75	100	1.3	3.0	10.0	600	SMC/DO-214AB
FR3K	800	500	3.0	75	100	1.3	3.0	10.0	800	SMC/DO-214AB
6.0 AMP Fast Recovery Rectifiers										
FR601	50	150	6.0	75	300	1.3	6.0	5.0	50	R-6
FR602	100	150	6.0	75	300	1.3	6.0	5.0	100	R-6
FR603	200	150	6.0	75	300	1.3	6.0	5.0	200	R-6
FR604	400	150	6.0	75	300	1.3	6.0	5.0	400	R-6
FR605	600	250	6.0	75	300	1.3	6.0	5.0	600	R-6
FR606	800	500	6.0	75	300	1.3	6.0	5.0	800	R-6
FR607	1000	500	6.0	75	300	1.3	6.0	5.0	100	R-6



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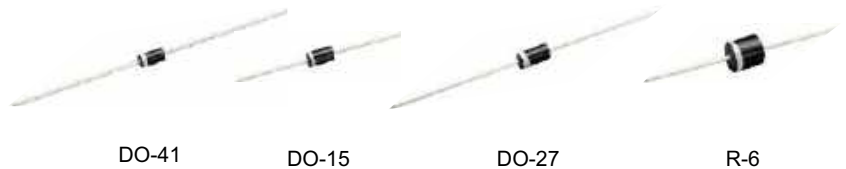
Super Fast Recovery Rectifiers

1.0 AMP Super Fast Recovery Rectifiers	12
2.0 AMP Super Fast Recovery Rectifiers	12
3.0 AMP Super Fast Recovery Rectifiers	12
5.0 AMP Super Fast Recovery Rectifiers	12
6.0 AMP Super Fast Recovery Rectifiers	12

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Super Fast Recovery Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	T_{RR}	$I_O@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	nS	A	°C	A	V	A	μA	V	
1.0 AMP Super Fast Recovery Rectifiers										
SF11	50	35	1.0	55	30	0.95	1.0	10.0	50	DO-41
SF12	100	35	1.0	55	30	0.95	1.0	10.0	100	DO-41
SF13	150	35	1.0	55	30	0.95	1.0	10.0	150	DO-41
SF14	200	35	1.0	55	30	0.95	1.0	10.0	200	DO-41
SF15	300	35	1.0	55	30	1.25	1.0	10.0	300	DO-41
SF16	400	35	1.0	55	30	1.25	1.0	10.0	400	DO-41
SF17	600	35	1.0	55	30	1.50	1.0	10.0	600	DO-41
2.0 AMP Super Fast Recovery Rectifiers										
SF21	50	35	2.0	55	60	0.95	2.0	10.0	50	DO-15
SF22	100	35	2.0	55	60	0.95	2.0	10.0	100	DO-15
SF23	150	35	2.0	55	60	0.95	2.0	10.0	150	DO-15
SF24	200	35	2.0	55	60	0.95	2.0	10.0	200	DO-15
SF25	300	35	2.0	55	60	1.25	2.0	10.0	300	DO-15
SF26	400	35	2.0	55	60	1.25	2.0	10.0	400	DO-15
SF27	600	35	2.0	55	60	1.50	2.0	10.0	600	DO-15
3.0 AMP Super Fast Recovery Rectifiers										
SF31	50	35	3.0	55	125	0.95	3.0	10.0	50	DO-27
SF32	100	35	3.0	55	125	0.95	3.0	10.0	100	DO-27
SF33	150	35	3.0	55	125	0.95	3.0	10.0	150	DO-27
SF34	200	35	3.0	55	125	0.95	3.0	10.0	200	DO-27
SF35	300	35	3.0	55	125	1.25	3.0	10.0	300	DO-27
SF36	400	35	3.0	55	125	1.25	3.0	10.0	400	DO-27
SF37	600	35	3.0	55	125	1.50	3.0	10.0	600	DO-27
5.0 AMP Super Fast Recovery Rectifiers										
SF51	50	35	5.0	55	150	0.95	5.0	10.0	50	DO-27
SF52	100	35	5.0	55	150	0.95	5.0	10.0	100	DO-27
SF53	150	35	5.0	55	150	0.95	5.0	10.0	150	DO-27
SF54	200	35	5.0	55	150	0.95	5.0	10.0	200	DO-27
SF55	300	35	5.0	55	150	1.25	5.0	10.0	300	DO-27
SF56	400	35	5.0	55	150	1.25	5.0	10.0	400	DO-27
SF57	600	35	5.0	55	150	1.50	5.0	10.0	600	DO-27
6.0 AMP Super Fast Recovery Rectifiers										
SF61	50	35	6.0	55	150	0.95	6.0	10.0	50	DO-27
SF62	100	35	6.0	55	150	0.95	6.0	10.0	100	DO-27
SF63	150	35	6.0	55	150	0.95	6.0	10.0	150	DO-27
SF64	200	35	6.0	55	150	0.95	6.0	10.0	200	DO-27
SF65	300	35	6.0	55	150	1.25	6.0	10.0	300	DO-27
SF66	400	35	6.0	55	150	1.25	6.0	10.0	400	DO-27
SF67	600	35	6.0	55	150	1.50	6.0	10.0	600	DO-27





High Efficiency Rectifiers

1.0 AMP High Efficiency Rectifiers	14
1.5 AMP High Efficiency Rectifiers	14
2.0 AMP High Efficiency Rectifiers	14
3.0 AMP High Efficiency Rectifiers	14
5.0 AMP High Efficiency Rectifiers	14

High Efficiency Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time	Max. Average Rectified Current		Max. Peak Forward Surge Current (t)	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	T_{RR}	$I_O@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	nS	A	°C	A	V	A	µA	V	
1.0 AMP High Efficiency Rectifiers										
1H1	50	50	1.0	55	30	1.00	1.0	5.0	50	R-1
1H2	100	50	1.0	55	30	1.00	1.0	5.0	100	R-1
1H3	200	50	1.0	55	30	1.00	1.0	5.0	200	R-1
1H4	300	50	1.0	55	30	1.00	1.0	5.0	300	R-1
1H5	400	50	1.0	55	30	1.30	1.0	5.0	400	R-1
1H6	600	75	1.0	55	30	1.70	1.0	5.0	600	R-1
1H7	800	75	1.0	55	30	1.70	1.0	5.0	800	R-1
1H8	1000	75	1.0	55	30	1.70	1.0	5.0	1000	R-1
UF4001	50	50	1.0	55	30	1.30	1.0	10.0	50	DO-41
UF4002	100	50	1.0	55	30	1.30	1.0	10.0	100	DO-41
UF4003	200	50	1.0	55	30	1.30	1.0	10.0	200	DO-41
UF4004	400	50	1.0	55	30	1.30	1.0	10.0	400	DO-41
UF4005	600	75	1.0	55	30	1.70	1.0	10.0	600	DO-41
UF4006	800	75	1.0	55	30	1.70	1.0	10.0	800	DO-41
UF4007	1000	75	1.0	55	30	1.70	1.0	10.0	1000	DO-41
HER101	50	50	1.0	55	30	1.00	1.0	5.0	50	DO-41
HER102	100	50	1.0	55	30	1.00	1.0	5.0	100	DO-41
HER103	200	50	1.0	55	30	1.00	1.0	5.0	200	DO-41
HER104	300	50	1.0	55	30	1.30	1.0	5.0	300	DO-41
HER105	400	50	1.0	55	30	1.30	1.0	5.0	400	DO-41
HER106	600	75	1.0	55	30	1.85	1.0	5.0	600	DO-41
HER107	800	75	1.0	55	30	1.85	1.0	5.0	800	DO-41
HER108	1000	75	1.0	55	30	1.85	1.0	5.0	1000	DO-41
1.5 AMP High Efficiency Rectifiers										
HER151	50	50	1.5	55	50	1.00	1.5	10.0	50	DO-15
HER152	100	50	1.5	55	50	1.00	1.5	10.0	100	DO-15
HER153	200	50	1.5	55	50	1.00	1.5	10.0	200	DO-15
HER154	300	50	1.5	55	50	1.30	1.5	10.0	300	DO-15
HER155	400	50	1.5	55	50	1.30	1.5	10.0	400	DO-15
HER156	600	75	1.5	55	50	1.85	1.5	10.0	600	DO-15
HER157	800	75	1.5	55	50	1.85	1.5	10.0	800	DO-15
HER158	1000	75	1.5	55	50	1.85	1.5	10.0	1000	DO-15
2.0 AMP High Efficiency Rectifiers										
HER201	50	50	2.0	55	60	1.00	2.0	10.0	50	DO-15
HER202	100	50	2.0	55	60	1.00	2.0	10.0	100	DO-15
HER203	200	50	2.0	55	60	1.00	2.0	10.0	200	DO-15
HER204	300	50	2.0	55	60	1.30	2.0	10.0	300	DO-15
HER205	400	50	2.0	55	60	1.30	2.0	10.0	400	DO-15
HER206	600	70	2.0	55	60	1.85	2.0	10.0	600	DO-15
HER207	800	70	2.0	55	60	1.85	2.0	10.0	800	DO-15
HER208	1000	70	2.0	55	60	1.85	2.0	10.0	1000	DO-15
3.0 AMP High Efficiency Rectifiers										
UF5400	50	50	3.0	55	150	1.30	3.0	10.0	50	DO-27
UF5401	100	50	3.0	55	150	1.30	3.0	10.0	100	DO-27
UF5402	200	50	3.0	55	150	1.30	3.0	10.0	200	DO-27
UF5403	300	50	3.0	55	150	1.30	3.0	10.0	300	DO-27
UF5404	400	50	3.0	55	150	1.30	3.0	10.0	400	DO-27
UF5406	600	75	3.0	55	150	1.70	3.0	10.0	600	DO-27
UF5407	800	75	3.0	55	150	1.70	3.0	10.0	800	DO-27
UF5408	1000	75	3.0	55	150	1.70	3.0	10.0	1000	DO-27
HER301	50	50	3.0	50	150	1.00	3.0	10.0	50	DO-27
HER302	100	50	3.0	50	150	1.00	3.0	10.0	100	DO-27
HER303	200	50	3.0	50	150	1.00	3.0	10.0	200	DO-27
HER304	300	50	3.0	50	150	1.30	3.0	10.0	300	DO-27
HER305	400	50	3.0	50	150	1.30	3.0	10.0	400	DO-27
HER306	600	70	3.0	50	150	1.85	3.0	10.0	600	DO-27
HER307	800	70	3.0	50	150	1.85	3.0	10.0	800	DO-27
HER308	1000	70	3.0	50	150	1.85	3.0	10.0	1000	DO-27
5.0 AMP High Efficiency Rectifiers										
HER501	50	50	5.0	50	200	1.00	5.0	10.0	50	DO-27
HER502	100	50	5.0	50	200	1.00	5.0	10.0	100	DO-27
HER503	200	50	5.0	50	200	1.00	5.0	10.0	200	DO-27
HER504	300	50	5.0	50	200	1.30	5.0	10.0	300	DO-27
HER505	400	50	5.0	50	200	1.30	5.0	10.0	400	DO-27
HER506	600	70	5.0	50	200	1.85	5.0	10.0	600	DO-27
HER507	800	70	5.0	50	200	1.85	5.0	10.0	800	DO-27
HER508	1000	70	5.0	50	200	1.85	5.0	10.0	1000	DO-27



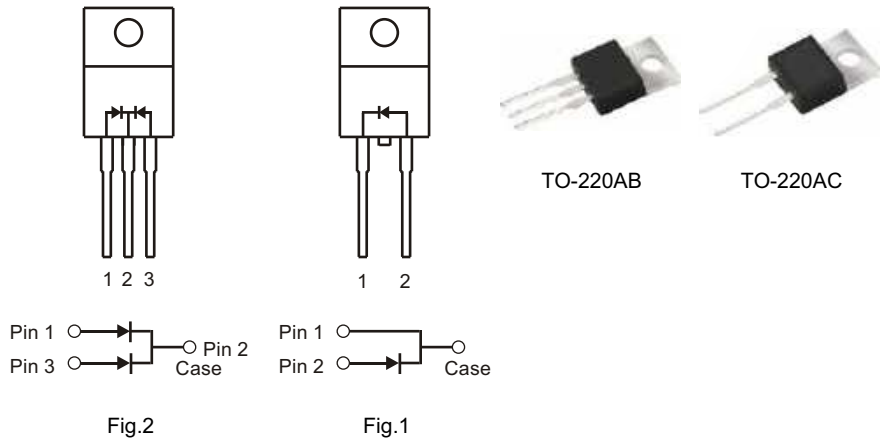
Schottky Barrier Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
1.0 AMP Schottky Barrier Rectifiers									
SR120	20	1.0	75	30	0.45	1.0	1.0	20	DO-41
SR130	30	1.0	75	30	0.55	1.0	1.0	30	DO-41
SR140	40	1.0	75	30	0.55	1.0	1.0	40	DO-41
SR150	50	1.0	100	30	0.70	1.0	1.0	50	DO-41
SR160	60	1.0	100	30	0.70	1.0	1.0	60	DO-41
SR180	80	1.0	100	30	0.85	1.0	1.0	80	DO-41
SR1100	100	1.0	100	30	0.85	1.0	1.0	100	DO-41
1N5817	20	1.0	90	25	0.45	1.0	1.0	20	DO-41
1N5818	30	1.0	90	25	0.55	1.0	1.0	30	DO-41
1N5819	40	1.0	90	25	0.60	1.0	1.0	40	DO-41
SS12	20	1.0	90	25	0.50	1.0	0.5	20	SMA/DO-214AC
SS14	40	1.0	90	25	0.50	1.0	0.5	40	SMA/DO-214AC
SS16	60	1.0	90	25	0.70	1.0	0.5	60	SMA/DO-214AC
SM5817	20	1.0	90	25	0.45	1.0	1.0	20	SMA/DO-214AC
SM5818	30	1.0	90	25	0.55	1.0	1.0	30	SMA/DO-214AC
SM5819	40	1.0	90	25	0.60	1.0	1.0	40	SMA/DO-214AC
2.0 AMP Schottky Barrier Rectifiers									
SR220	20	2.0	75	50	0.45	2.0	1.0	20	DO-15
SR230	30	2.0	75	50	0.55	2.0	1.0	30	DO-15
SR240	40	2.0	75	50	0.55	2.0	1.0	40	DO-15
SR250	50	2.0	100	50	0.70	2.0	1.0	50	DO-15
SR260	60	2.0	100	50	0.70	2.0	1.0	60	DO-15
SR280	80	2.0	100	50	0.85	2.0	1.0	80	DO-15
SR2100	100	2.0	100	50	0.85	2.0	1.0	100	DO-15
SS22	20	2.0	75	50	0.6	2.0	0.5	20	SMB/DO-214AC
SS24	40	2.0	75	50	0.6	2.0	0.5	40	SMB/DO-214AC
SS26	60	2.0	75	50	0.7	2.0	0.5	60	SMB/DO-214AC
3.0 AMP Schottky Barrier Rectifiers									
SR320	20	3.0	75	80	0.50	3.0	1.0	20	DO-27
SR330	30	3.0	75	80	0.50	3.0	1.0	30	DO-27
SR340	40	3.0	75	80	0.50	3.0	1.0	40	DO-27
SR350	50	3.0	100	80	0.74	3.0	1.0	50	DO-27
SR360	60	3.0	100	80	0.74	3.0	1.0	60	DO-27
SR380	80	3.0	100	80	0.85	3.0	1.0	80	DO-27
SR3100	100	3.0	100	80	0.85	3.0	1.0	100	DO-27
1N5820	20	3.0	75	80	0.475	3.0	3.0	20	DO-27
1N5821	30	3.0	75	80	0.500	3.0	3.0	30	DO-27
1N5822	40	3.0	75	80	0.525	3.0	3.0	40	DO-27
SS32	20	3.0	75	100	0.50	3.0	0.5	20	SMC/DO-214AB
SS34	40	3.0	75	100	0.50	3.0	0.5	30	SMC/DO-214AB
SS36	60	3.0	75	100	0.75	3.0	0.5	40	SMC/DO-214AB
5.0 AMP Schottky Barrier Rectifiers									
SR520	20	5.0	60	150	0.55	5.0	5.0	20	DO-27
SR530	30	5.0	60	150	0.55	5.0	5.0	30	DO-27
SR540	40	5.0	60	150	0.55	5.0	5.0	40	DO-27
SR550	50	5.0	85	150	0.70	5.0	5.0	50	DO-27
SR560	60	5.0	85	150	0.70	5.0	5.0	60	DO-27
SR580	80	5.0	85	150	0.85	5.0	5.0	80	DO-27
SR5100	100	5.0	85	150	0.85	5.0	5.0	100	DO-27



Schottky Barrier Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package	Circuit Figure
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$			
	V	A	°C	A	V	A	µA	V		
8.0 AMP Schottky Barrier Rectifiers										
SBL830	30	8.0	90	200	0.55	8.0	0.5	30	TO-220AC	Fig.1
SBL835	35	8.0	90	200	0.55	8.0	0.5	35	TO-220AC	Fig.1
SBL840	40	8.0	90	200	0.55	8.0	0.5	40	TO-220AC	Fig.1
SBL845	45	8.0	90	200	0.55	8.0	0.5	45	TO-220AC	Fig.1
SBL850	50	8.0	115	200	0.70	8.0	0.5	50	TO-220AC	Fig.1
SBL860	60	8.0	115	200	0.70	8.0	0.5	60	TO-220AC	Fig.1
10.0 AMP Schottky Barrier Rectifiers										
SBL1030	30	10.0	95	250	0.60	5.0	1.0	30	TO-220AC	Fig.1
SBL1035	35	10.0	95	250	0.60	5.0	1.0	35	TO-220AC	Fig.1
SBL1040	40	10.0	95	250	0.60	5.0	1.0	40	TO-220AC	Fig.1
SBL1045	45	10.0	95	250	0.60	5.0	1.0	45	TO-220AC	Fig.1
SBL1050	50	10.0	120	250	0.75	5.0	1.0	50	TO-220AC	Fig.1
SBL1060	60	10.0	120	250	0.75	5.0	1.0	60	TO-220AC	Fig.1
SBL1030CT	30	10.0	95	175	0.55	5.0	0.5	30	TO-220AB	Fig.2
SBL1035CT	35	10.0	95	175	0.55	5.0	0.5	35	TO-220AB	Fig.2
SBL1040CT	40	10.0	95	175	0.55	5.0	0.5	40	TO-220AB	Fig.2
SBL1045CT	45	10.0	95	175	0.55	5.0	0.5	45	TO-220AB	Fig.2
SBL1050CT	50	10.0	120	175	0.70	5.0	0.5	50	TO-220AB	Fig.2
SBL1060CT	60	10.0	120	175	0.70	5.0	0.5	60	TO-220AB	Fig.2
16.0 AMP Schottky Barrier Rectifiers										
SBL1630	30	16.0	90	275	0.57	8.0	1.0	30	TO-220AC	Fig.1
SBL1635	35	16.0	90	275	0.57	8.0	1.0	35	TO-220AC	Fig.1
SBL1640	40	16.0	90	275	0.57	8.0	1.0	40	TO-220AC	Fig.1
SBL1645	45	16.0	90	275	0.57	8.0	1.0	45	TO-220AC	Fig.1
SBL1650	50	16.0	120	275	0.75	8.0	1.0	50	TO-220AC	Fig.1
SBL1660	60	16.0	120	275	0.75	8.0	1.0	60	TO-220AC	Fig.1
SBL1630CT	30	16.0	90	250	0.55	8.0	0.5	30	TO-220AB	Fig.2
SBL1635CT	35	16.0	90	250	0.55	8.0	0.5	35	TO-220AB	Fig.2
SBL1640CT	40	16.0	90	250	0.55	8.0	0.5	40	TO-220AB	Fig.2
SBL1645CT	45	16.0	90	250	0.55	8.0	0.5	45	TO-220AB	Fig.2
SBL1650CT	50	16.0	120	250	0.70	8.0	0.5	50	TO-220AB	Fig.2
SBL1660CT	60	16.0	120	250	0.70	8.0	0.5	60	TO-220AB	Fig.2



High Voltage Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	μA	V	
0.75 AMP High Voltage Silicon Rectifier									
HVP5	5000	0.75	55	50	10	0.75	5.0	5000	HVP
HVP8	8000	0.75	55	50	10	0.75	5.0	8000	HVP
HVP10	10000	0.75	55	50	10	0.75	5.0	10000	HVP
HVP12	12000	0.75	55	50	14	0.75	5.0	12000	HVP
HVP14	14000	0.75	55	50	14	0.75	5.0	14000	HVP
HVP15	15000	0.75	55	50	16	0.75	5.0	15000	HVP
HVP16	16000	0.75	55	50	16	0.75	5.0	16000	HVP



HVP



Bridge Rectifiers

- 0.5 AMP Bridge Rectifiers 22
- 1.0 AMP Bridge Rectifiers 22
- 1.5 AMP Bridge Rectifiers 23
- 2.0 AMP Bridge Rectifiers 24
- 3.0 AMP Bridge Rectifiers 24
- 4.0 AMP Bridge Rectifiers 25
- 5.0 AMP Bridge Rectifiers 25
- 6.0 AMP Bridge Rectifiers 26
- 8.0 AMP Bridge Rectifiers 27
- 10.0 AMP Bridge Rectifiers 28
- 15.0 AMP Bridge Rectifiers 30
- 25.0 AMP Bridge Rectifiers 32
- 35.0 AMP Bridge Rectifiers 34
- 40.0 AMP Bridge Rectifiers 35
- 50.0 AMP Bridge Rectifiers 35

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
0.5 AMP Single-Phase Bridge Rectifiers									
B05S	50	0.5	40	30	1.1	0.5	10.0	50	MiniDip
B1S	100	0.5	40	30	1.1	0.5	10.0	100	MiniDip
B2S	200	0.5	40	30	1.1	0.5	10.0	200	MiniDip
B4S	400	0.5	40	30	1.1	0.5	10.0	400	MiniDip
B6S	600	0.5	40	30	1.1	0.5	10.0	600	MiniDip
B8S	800	0.5	40	30	1.1	0.5	10.0	800	MiniDip
B10S	1000	0.5	40	30	1.1	0.5	10.0	1000	MiniDip
1.0 AMP Single-Phase Bridge Rectifiers									
DF005	50	1.0	40	50	1.1	1.0	10.0	50	DB
DF01	100	1.0	40	50	1.1	1.0	10.0	100	DB
DF02	200	1.0	40	50	1.1	1.0	10.0	200	DB
DF04	400	1.0	40	50	1.1	1.0	10.0	400	DB
DF06	600	1.0	40	50	1.1	1.0	10.0	600	DB
DF08	800	1.0	40	50	1.1	1.0	10.0	800	DB
DF10	1000	1.0	40	50	1.1	1.0	10.0	1000	DB
DF005M	50	1.0	40	50	1.1	1.0	10.0	50	DB
DF01M	100	1.0	40	50	1.1	1.0	10.0	100	DB
DF02M	200	1.0	40	50	1.1	1.0	10.0	200	DB
DF04M	400	1.0	40	50	1.1	1.0	10.0	400	DB
DF06M	600	1.0	40	50	1.1	1.0	10.0	600	DB
DF08M	800	1.0	40	50	1.1	1.0	10.0	800	DB
DF10M	1000	1.0	40	50	1.1	1.0	10.0	1000	DB
DF005S	50	1.0	40	50	1.1	1.0	10.0	50	DBS
DF01S	100	1.0	40	50	1.1	1.0	10.0	100	DBS
DF02S	200	1.0	40	50	1.1	1.0	10.0	200	DBS
DF04S	400	1.0	40	50	1.1	1.0	10.0	400	DBS
DF06S	600	1.0	40	50	1.1	1.0	10.0	600	DBS
DF08S	800	1.0	40	50	1.1	1.0	10.0	800	DBS
DF10S	1000	1.0	40	50	1.1	1.0	10.0	1000	DBS
DB101	50	1.0	40	50	1.1	1.0	10.0	50	DB
DB102	100	1.0	40	50	1.1	1.0	10.0	100	DB
DB103	200	1.0	40	50	1.1	1.0	10.0	200	DB
DB104	400	1.0	40	50	1.1	1.0	10.0	400	DB
DB105	600	1.0	40	50	1.1	1.0	10.0	600	DB
DB106	800	1.0	40	50	1.1	1.0	10.0	800	DB
DB107	1000	1.0	40	50	1.1	1.0	10.0	1000	DB
DB101S	50	1.0	40	50	1.1	1.0	10.0	50	DBS
DB102S	100	1.0	40	50	1.1	1.0	10.0	100	DBS
DB103S	200	1.0	40	50	1.1	1.0	10.0	200	DBS
DB104S	400	1.0	40	50	1.1	1.0	10.0	400	DBS
DB105S	600	1.0	40	50	1.1	1.0	10.0	600	DBS
DB106S	800	1.0	40	50	1.1	1.0	10.0	800	DBS
DB107S	1000	1.0	40	50	1.1	1.0	10.0	1000	DBS
RS101	50	1.0	50	30	1.0	1.0	10.0	50	RS1
RS102	100	1.0	50	30	1.0	1.0	10.0	100	RS1
RS103	200	1.0	50	30	1.0	1.0	10.0	200	RS1
RS104	400	1.0	50	30	1.0	1.0	10.0	400	RS1
RS105	600	1.0	50	30	1.0	1.0	10.0	600	RS1
RS106	800	1.0	50	30	1.0	1.0	10.0	800	RS1
RS107	1000	1.0	50	30	1.0	1.0	10.0	1000	RS1



MiniDip



DB



DBS



RS1

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
1.5 AMP Single-Phase Bridge Rectifiers									
DF15005	50	1.5	40	50	1.1	1.0	10.0	50	DIP
DF1501	100	1.5	40	50	1.1	1.0	10.0	100	DIP
DF1502	200	1.5	40	50	1.1	1.5	10.0	200	DIP
DF1504	400	1.5	40	50	1.1	1.5	10.0	400	DIP
DF1506	600	1.5	40	50	1.1	1.5	10.0	600	DIP
DF1508	800	1.5	40	50	1.1	1.5	10.0	800	DIP
DF1510	1000	1.5	40	50	1.1	1.5	10.0	1000	DIP
DF15005S	50	1.5	40	50	1.1	1.5	10.0	50	DIP-S
DF1501S	100	1.5	40	50	1.1	1.5	10.0	100	DIP-S
DF1502S	200	1.5	40	50	1.1	1.5	10.0	200	DIP-S
DF1504S	400	1.5	40	50	1.1	1.5	10.0	400	DIP-S
DF1506S	600	1.5	40	50	1.1	1.5	10.0	600	DIP-S
DF1508S	800	1.5	40	50	1.1	1.5	10.0	800	DIP-S
DF1510S	1000	1.5	40	50	1.1	1.5	10.0	1000	DIP-S
DB151	50	1.5	40	50	1.1	1.5	10.0	50	DIP
DB152	100	1.5	40	50	1.1	1.5	10.0	100	DIP
DB153	200	1.5	40	50	1.1	1.5	10.0	200	DIP
DB154	400	1.5	40	50	1.1	1.5	10.0	400	DIP
DB155	600	1.5	40	50	1.1	1.5	10.0	600	DIP
DB156	800	1.5	40	50	1.1	1.5	10.0	800	DIP
DB157	1000	1.5	40	50	1.1	1.5	10.0	1000	DIP
DB151S	50	1.5	40	50	1.1	1.5	10.0	50	DIP-S
DB152S	100	1.5	40	50	1.1	1.5	10.0	100	DIP-S
DB153S	200	1.5	40	50	1.1	1.5	10.0	200	DIP-S
DB154S	400	1.5	40	50	1.1	1.5	10.0	400	DIP-S
DB155S	600	1.5	40	50	1.1	1.5	10.0	600	DIP-S
DB156S	800	1.5	40	50	1.1	1.5	10.0	800	DIP-S
DB157S	1000	1.5	40	50	1.1	1.5	10.0	1000	DIP-S
RB151	50	1.5	50	50	1.1	1.5	10.0	50	WOB
RB152	100	1.5	50	50	1.1	1.5	10.0	100	WOB
RB153	200	1.5	50	50	1.1	1.5	10.0	200	WOB
RB154	400	1.5	50	50	1.1	1.5	10.0	400	WOB
RB155	600	1.5	50	50	1.1	1.5	10.0	600	WOB
RB156	800	1.5	50	50	1.1	1.5	10.0	800	WOB
RB157	1000	1.5	50	50	1.1	1.5	10.0	1000	WOB
W005M	50	1.5	50	50	1.1	1.5	10.0	50	WOB
W01M	100	1.5	50	50	1.1	1.5	10.0	100	WOB
W02M	200	1.5	50	50	1.1	1.5	10.0	200	WOB
W04M	400	1.5	50	50	1.1	1.5	10.0	400	WOB
W06M	600	1.5	50	50	1.1	1.5	10.0	600	WOB
W08M	800	1.5	50	50	1.1	1.5	10.0	800	WOB
W10M	1000	1.5	50	50	1.1	1.5	10.0	1000	WOB
KBP005	50	1.5	50	50	1.1	1.5	10.0	50	KBP
KBP01	100	1.5	50	50	1.1	1.5	10.0	100	KBP
KBP02	200	1.5	50	50	1.1	1.5	10.0	200	KBP
KBP04	400	1.5	50	50	1.1	1.5	10.0	400	KBP
KBP06	600	1.5	50	50	1.1	1.5	10.0	600	KBP
KBP08	800	1.5	50	50	1.1	1.5	10.0	800	KBP
KBP10	1000	1.5	50	50	1.1	1.5	10.0	1000	KBP
KBP005M	50	1.5	50	50	1.1	1.5	10.0	50	KBP
KBP01M	100	1.5	50	50	1.1	1.5	10.0	100	KBP
KBP02M	200	1.5	50	50	1.1	1.5	10.0	200	KBP
KBP04M	400	1.5	50	50	1.1	1.5	10.0	400	KBP
KBP06M	600	1.5	50	50	1.1	1.5	10.0	600	KBP
KBP08M	800	1.5	50	50	1.1	1.5	10.0	800	KBP
KBP10M	1000	1.5	50	50	1.1	1.5	10.0	1000	KBP



DB



DBS



WOB



KBP

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
2.0 AMP Single-Phase Bridge Rectifiers									
2W005	50	2.0	25	60	1.1	2.0	10.0	50	WOB
2W01	100	2.0	25	60	1.1	2.0	10.0	100	WOB
2W02	200	2.0	25	60	1.1	2.0	10.0	200	WOB
2W04	400	2.0	25	60	1.1	2.0	10.0	400	WOB
2W06	600	2.0	25	60	1.1	2.0	10.0	600	WOB
2W08	800	2.0	25	60	1.1	2.0	10.0	800	WOB
2W10	1000	2.0	25	60	1.1	2.0	10.0	1000	WOB
2KBP005M	50	2.0	50	60	1.1	2.0	10.0	50	KBP
2KBP01M	100	2.0	50	60	1.1	2.0	10.0	100	KBP
2KBP02M	200	2.0	50	60	1.1	2.0	10.0	200	KBP
2KBP04M	400	2.0	50	60	1.1	2.0	10.0	400	KBP
2KBP06M	600	2.0	50	60	1.1	2.0	10.0	600	KBP
2KBP08M	800	2.0	50	60	1.1	2.0	10.0	800	KBP
2KBP10M	1000	2.0	50	60	1.1	2.0	10.0	1000	KBP
RS201	50	2.0	50	50	1.1	2.0	10.0	50	RS2
RS202	100	2.0	50	50	1.1	2.0	10.0	100	RS2
RS203	200	2.0	50	50	1.1	2.0	10.0	200	RS2
RS204	400	2.0	50	50	1.1	2.0	10.0	400	RS2
RS205	600	2.0	50	50	1.1	2.0	10.0	600	RS2
RS206	800	2.0	50	50	1.1	2.0	10.0	800	RS2
RS207	1000	2.0	50	50	1.1	2.0	10.0	1000	RS2
3.0 AMP Single-Phase Bridge Rectifiers									
KBPC1005	50	3.0	50	50	1.1	3.0	10.0	50	BR3
KBPC101	100	3.0	50	50	1.1	3.0	10.0	100	BR3
KBPC102	200	3.0	50	50	1.1	3.0	10.0	200	BR3
KBPC104	400	3.0	50	50	1.1	3.0	10.0	400	BR3
KBPC106	600	3.0	50	50	1.1	3.0	10.0	600	BR3
KBPC108	800	3.0	50	50	1.1	3.0	10.0	800	BR3
KBPC110	1000	3.0	50	50	1.1	3.0	10.0	1000	BR3
BR305	50	3.0	50	50	1.1	3.0	10.0	50	BR3
BR31	100	3.0	50	50	1.1	3.0	10.0	100	BR3
BR32	200	3.0	50	50	1.1	3.0	10.0	200	BR3
BR34	400	3.0	50	50	1.1	3.0	10.0	400	BR3
BR36	600	3.0	50	50	1.1	3.0	10.0	600	BR3
BR38	800	3.0	50	50	1.1	3.0	10.0	800	BR3
BR310	1000	3.0	50	50	1.1	3.0	10.0	1000	BR3



WOB



KBP



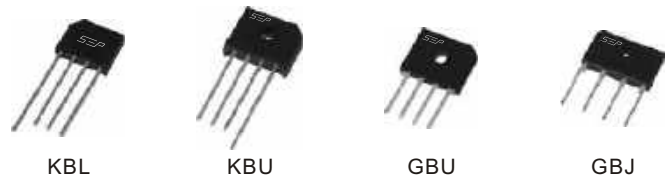
RS2



BR3

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
4.0 AMP Single-Phase Bridge Rectifiers									
KBL005	50	4.0	50	200	1.1	4.0	10.0	50	KBL
KBL01	100	4.0	50	200	1.1	4.0	10.0	100	KBL
KBL02	200	4.0	50	200	1.1	4.0	10.0	200	KBL
KBL04	400	4.0	50	200	1.1	4.0	10.0	400	KBL
KBL06	600	4.0	50	200	1.1	4.0	10.0	600	KBL
KBL08	800	4.0	50	200	1.1	4.0	10.0	800	KBL
KBL10	1000	4.0	50	200	1.1	4.0	10.0	1000	KBL
KBL4005	50	4.0	50	200	1.1	4.0	10.0	50	KBL
KBL401	100	4.0	50	200	1.1	4.0	10.0	100	KBL
KBL402	200	4.0	50	200	1.1	4.0	10.0	200	KBL
KBL404	400	4.0	50	200	1.1	4.0	10.0	400	KBL
KBL406	600	4.0	50	200	1.1	4.0	10.0	600	KBL
KBL408	800	4.0	50	200	1.1	4.0	10.0	800	KBL
KBL410	1000	4.0	50	200	1.1	4.0	10.0	1000	KBL
RS401L	50	4.0	50	200	1.1	4.0	10.0	50	KBL
RS402L	100	4.0	50	200	1.1	4.0	10.0	100	KBL
RS403L	200	4.0	50	200	1.1	4.0	10.0	200	KBL
RS404L	400	4.0	50	200	1.1	4.0	10.0	400	KBL
RS405L	600	4.0	50	200	1.1	4.0	10.0	600	KBL
RS406L	800	4.0	50	200	1.1	4.0	10.0	800	KBL
RS407L	1000	4.0	50	200	1.1	4.0	10.0	1000	KBL
KBU4A	50	4.0	100	200	1.1	4.0	10.0	50	KBU
KBU4B	100	4.0	100	200	1.1	4.0	10.0	100	KBU
KBU4D	200	4.0	100	200	1.1	4.0	10.0	200	KBU
KBU4G	400	4.0	100	200	1.1	4.0	10.0	400	KBU
KBU4J	600	4.0	100	200	1.1	4.0	10.0	600	KBU
KBU4K	800	4.0	100	200	1.1	4.0	10.0	800	KBU
KBU4M	1000	4.0	100	200	1.1	4.0	10.0	1000	KBU
GBJ4005	50	4.0	100	120	1.1	4.0	10.0	50	GBJ
GBJ401	100	4.0	100	120	1.1	4.0	10.0	100	GBJ
GBJ402	200	4.0	100	120	1.1	4.0	10.0	200	GBJ
GBJ404	400	4.0	100	120	1.1	4.0	10.0	400	GBJ
GBJ406	600	4.0	100	120	1.1	4.0	10.0	600	GBJ
GBJ408	800	4.0	100	120	1.1	4.0	10.0	800	GBJ
GBJ410	1000	4.0	100	120	1.1	4.0	10.0	1000	GBJ
GBU4005	50	4.0	100	150	1.1	4.0	5.0	50	GBU
GBU401	100	4.0	100	150	1.1	4.0	5.0	100	GBU
GBU402	200	4.0	100	150	1.1	4.0	5.0	200	GBU
GBU404	400	4.0	100	150	1.1	4.0	5.0	400	GBU
GBU406	600	4.0	100	150	1.1	4.0	5.0	600	GBU
GBU408	800	4.0	100	150	1.1	4.0	5.0	800	GBU
GBU410	1000	4.0	100	150	1.1	4.0	5.0	1000	GBU



Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_O@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
6.0 AMP Single-Phase Bridge Rectifiers									
KBL6005	50	6.0	50	200	1.1	6.0	10.0	50	KBL
KBL601	100	6.0	50	200	1.1	6.0	10.0	100	KBL
KBL602	200	6.0	50	200	1.1	6.0	10.0	200	KBL
KBL604	400	6.0	50	200	1.1	6.0	10.0	400	KBL
KBL606	600	6.0	50	200	1.1	6.0	10.0	600	KBL
KBL608	800	6.0	50	200	1.1	6.0	10.0	800	KBL
KBL610	1000	6.0	50	200	1.1	6.0	10.0	1000	KBL
KBU6A	50	6.0	100	250	1.1	6.0	10.0	50	KBU
KBU6B	100	6.0	100	250	1.1	6.0	10.0	100	KBU
KBU6D	200	6.0	100	250	1.1	6.0	10.0	200	KBU
KBU6G	400	6.0	100	250	1.1	6.0	10.0	400	KBU
KBU6J	600	6.0	100	250	1.1	6.0	10.0	600	KBU
KBU6K	800	6.0	100	250	1.1	6.0	10.0	800	KBU
KBU6M	1000	6.0	100	250	1.1	6.0	10.0	1000	KBU
KBU6005	50	6.0	100	250	1.1	6.0	10.0	50	KBU
KBU601	100	6.0	100	250	1.1	6.0	10.0	100	KBU
KBU602	200	6.0	100	250	1.1	6.0	10.0	200	KBU
KBU604	400	6.0	100	250	1.1	6.0	10.0	400	KBU
KBU606	600	6.0	100	250	1.1	6.0	10.0	600	KBU
KBU608	800	6.0	100	250	1.1	6.0	10.0	800	KBU
KBU610	1000	6.0	100	250	1.1	6.0	10.0	1000	KBU
RS601	50	6.0	100	250	1.1	6.0	10.0	50	KBU
RS602	100	6.0	100	250	1.1	6.0	10.0	100	KBU
RS603	200	6.0	100	250	1.1	6.0	10.0	200	KBU
RS604	400	6.0	100	250	1.1	6.0	10.0	400	KBU
RS605	600	6.0	100	250	1.1	6.0	10.0	600	KBU
RS606	800	6.0	100	250	1.1	6.0	10.0	800	KBU
RS607	1000	6.0	100	250	1.1	6.0	10.0	1000	KBU
KBJ6005	50	6.0	170	170	1.1	6.0	10.0	50	KBJ
KBJ601	100	6.0	170	170	1.1	6.0	10.0	100	KBJ
KBJ602	200	6.0	170	170	1.1	6.0	10.0	200	KBJ
KBJ604	400	6.0	170	170	1.1	6.0	10.0	400	KBJ
KBJ606	600	6.0	170	170	1.1	6.0	10.0	600	KBJ
KBJ608	800	6.0	170	170	1.1	6.0	10.0	800	KBJ
KBJ610	1000	6.0	170	170	1.1	6.0	10.0	1000	KBJ
GBU6005	50	6.0	175	150	1.1	6.0	5.0	50	GBU
GBU601	100	6.0	175	150	1.1	6.0	5.0	100	GBU
GBU602	200	6.0	175	150	1.1	6.0	5.0	200	GBU
GBU604	400	6.0	175	150	1.1	6.0	5.0	400	GBU
GBU606	600	6.0	175	150	1.1	6.0	5.0	600	GBU
GBU608	800	6.0	175	150	1.1	6.0	5.0	800	GBU
GBU610	1000	6.0	175	150	1.1	6.0	5.0	800	GBU
KBPC6005	50	6.0	125	125	1.1	6.0	10.0	50	BR6
KBPC601	100	6.0	125	125	1.1	6.0	10.0	100	BR6
KBPC602	200	6.0	125	125	1.1	6.0	10.0	200	BR6
KBPC604	400	6.0	125	125	1.1	6.0	10.0	400	BR6
KBPC606	600	6.0	125	125	1.1	6.0	10.0	600	BR6
KBPC608	800	6.0	125	125	1.1	6.0	10.0	800	BR6
KBPC610	1000	6.0	125	125	1.1	6.0	10.0	1000	BR6
BR605	50	6.0	125	125	1.1	6.0	10.0	50	BR6
BR61	100	6.0	125	125	1.1	6.0	10.0	100	BR6
BR62	200	6.0	125	125	1.1	6.0	10.0	200	BR6
BR64	400	6.0	125	125	1.1	6.0	10.0	400	BR6
BR66	600	6.0	125	125	1.1	6.0	10.0	600	BR6
BR68	800	6.0	125	125	1.1	6.0	10.0	800	BR6
BR610	1000	6.0	125	125	1.1	6.0	10.0	1000	BR6



KBL



KBU



GBU



KBJ



BR6

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	μA	V	
8.0 AMP Single-Phase Bridge Rectifiers									
KBU8A	50	8.0	100	300	1.1	8.0	10.0	50	KBU
KBU8B	100	8.0	100	300	1.1	8.0	10.0	100	KBU
KBU8D	200	8.0	100	300	1.1	8.0	10.0	200	KBU
KBU8G	400	8.0	100	300	1.1	8.0	10.0	400	KBU
KBU8J	600	8.0	100	300	1.1	8.0	10.0	600	KBU
KBU8K	800	8.0	100	300	1.1	8.0	10.0	800	KBU
KBU8M	1000	8.0	100	300	1.1	8.0	10.0	1000	KBU
KBU8005	50	8.0	100	300	1.1	8.0	10.0	50	KBU
KBU801	100	8.0	100	300	1.1	8.0	10.0	100	KBU
KBU802	200	8.0	100	300	1.1	8.0	10.0	200	KBU
KBU804	400	8.0	100	300	1.1	8.0	10.0	400	KBU
KBU806	600	8.0	100	300	1.1	8.0	10.0	600	KBU
KBU808	800	8.0	100	300	1.1	8.0	10.0	800	KBU
KBU810	1000	8.0	100	300	1.1	8.0	10.0	1000	KBU
RS801	50	8.0	100	300	1.1	8.0	10.0	50	KBU
RS802	100	8.0	100	300	1.1	8.0	10.0	100	KBU
RS803	200	8.0	100	300	1.1	8.0	10.0	200	KBU
RS804	400	8.0	100	300	1.1	8.0	10.0	400	KBU
RS805	600	8.0	100	300	1.1	8.0	10.0	600	KBU
RS806	800	8.0	100	300	1.1	8.0	10.0	800	KBU
RS807	1000	8.0	100	300	1.1	8.0	10.0	1000	KBU
KBJ8005	50	8.0	100	170	1.1	8.0	10.0	50	KBJ
KBJ801	100	8.0	100	170	1.1	8.0	10.0	100	KBJ
KBJ802	200	8.0	100	170	1.1	8.0	10.0	200	KBJ
KBJ804	400	8.0	100	170	1.1	8.0	10.0	400	KBJ
KBJ806	600	8.0	100	170	1.1	8.0	10.0	600	KBJ
KBJ808	800	8.0	100	170	1.1	8.0	10.0	800	KBJ
KBJ810	1000	8.0	100	170	1.1	8.0	10.0	1000	KBJ
GBU8005	50	8.0	100	200	1.1	8.0	5.0	50	GBU
GBU801	100	8.0	100	200	1.1	8.0	5.0	100	GBU
GBU802	200	8.0	100	200	1.1	8.0	5.0	200	GBU
GBU804	400	8.0	100	200	1.1	8.0	5.0	400	GBU
GBU806	600	8.0	100	200	1.1	8.0	5.0	600	GBU
GBU808	800	8.0	100	200	1.1	8.0	5.0	800	GBU
GBU810	1000	8.0	100	200	1.1	8.0	5.0	1000	GBU
KBPC8005	50	8.0	50	125	1.1	8.0	10.0	50	BR8
KBPC801	100	8.0	50	125	1.1	8.0	10.0	100	BR8
KBPC802	200	8.0	50	125	1.1	8.0	10.0	200	BR8
KBPC804	400	8.0	50	125	1.1	8.0	10.0	400	BR8
KBPC806	600	8.0	50	125	1.1	8.0	10.0	600	BR8
KBPC808	800	8.0	50	125	1.1	8.0	10.0	800	BR8
KBPC810	1000	8.0	50	125	1.1	8.0	10.0	1000	BR8
BR805	50	8.0	50	125	1.1	8.0	10.0	50	BR8
BR81	100	8.0	50	125	1.1	8.0	10.0	100	BR8
BR82	200	8.0	50	125	1.1	8.0	10.0	200	BR8
BR84	400	8.0	50	125	1.1	8.0	10.0	400	BR8
BR86	600	8.0	50	125	1.1	8.0	10.0	600	BR8
BR88	800	8.0	50	125	1.1	8.0	10.0	800	BR8
BR810	1000	8.0	50	125	1.1	8.0	10.0	1000	BR8



KBU



GBU



KBJ



BR8

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
10.0 AMP Single-Phase Bridge Rectifiers									
KBU10005	50	10.0	100	300	1.05	10.0	10.0	50	KBU
KBU1001	100	10.0	100	300	1.05	10.0	10.0	100	KBU
KBU1002	200	10.0	100	300	1.05	10.0	10.0	200	KBU
KBU1004	400	10.0	100	300	1.05	10.0	10.0	400	KBU
KBU1006	600	10.0	100	300	1.05	10.0	10.0	600	KBU
KBU1008	800	10.0	100	300	1.05	10.0	10.0	800	KBU
KBU1010	1000	10.0	100	300	1.05	10.0	10.0	1000	KBU
RS10005	50	10.0	100	300	1.1	10.0	10.0	50	KBU
RS1001	100	10.0	100	300	1.1	10.0	10.0	100	KBU
RS1002	200	10.0	100	300	1.1	10.0	10.0	200	KBU
RS1004	400	10.0	100	300	1.1	10.0	10.0	400	KBU
RS1006	600	10.0	100	300	1.1	10.0	10.0	600	KBU
RS1008	800	10.0	100	300	1.1	10.0	10.0	800	KBU
RS1010	1000	10.0	100	300	1.1	10.0	10.0	1000	KBU
KBJ10005	50	10.0	100	170	1.05	10.0	10.0	50	KBJ
KBJ1001	100	10.0	100	170	1.05	10.0	10.0	100	KBJ
KBJ1002	200	10.0	100	170	1.05	10.0	10.0	200	KBJ
KBJ1004	400	10.0	100	170	1.05	10.0	10.0	400	KBJ
KBJ1006	600	10.0	100	170	1.05	10.0	10.0	600	KBJ
KBJ1008	800	10.0	100	170	1.05	10.0	10.0	800	KBJ
KBJ1010	1000	10.0	100	170	1.05	10.0	10.0	1000	KBJ
GBU10005	50	10.0	100	220	1.05	10.0	5.0	50	GBU
GBU1001	100	10.0	100	220	1.05	10.0	5.0	100	GBU
GBU1002	200	10.0	100	220	1.05	10.0	5.0	200	GBU
GBU1004	400	10.0	100	220	1.05	10.0	5.0	400	GBU
GBU1006	600	10.0	100	220	1.05	10.0	5.0	600	GBU
GBU1008	800	10.0	100	220	1.05	10.0	5.0	800	GBU
GBU1010	1000	10.0	100	220	1.05	10.0	5.0	1000	GBU
MP10005S	50	10.0	55	300	1.05	5.0	10.0	50	MPS
MP1001S	100	10.0	55	300	1.05	5.0	10.0	100	MPS
MP1002S	200	10.0	55	300	1.05	5.0	10.0	200	MPS
MP1004S	400	10.0	55	300	1.05	5.0	10.0	400	MPS
MP1006S	600	10.0	55	300	1.05	5.0	10.0	600	MPS
MP1008S	800	10.0	55	300	1.05	5.0	10.0	800	MPS
MP1010S	1000	10.0	55	300	1.05	5.0	10.0	1000	MPS
BR1005	50	10.0	50	150	1.1	5.0	10.0	50	BR8
BR101	100	10.0	50	150	1.1	5.0	10.0	100	BR8
BR102	200	10.0	50	150	1.1	5.0	10.0	200	BR8
BR104	400	10.0	50	150	1.1	5.0	10.0	400	BR8
BR106	600	10.0	50	150	1.1	5.0	10.0	600	BR8
BR108	800	10.0	50	150	1.1	5.0	10.0	800	BR8
BR1010	1000	10.0	50	150	1.1	5.0	10.0	1000	BR8



KBU



GBU



KBJ



BR8



MPS

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	μA	V	
10.0 AMP Single-Phase Bridge Rectifiers									
KBPC10005	50	10.0	55	300	1.05	5.0	10.0	50	KBPC
KBPC1001	100	10.0	55	300	1.05	5.0	10.0	100	KBPC
KBPC1002	200	10.0	55	300	1.05	5.0	10.0	200	KBPC
KBPC1004	400	10.0	55	300	1.05	5.0	10.0	400	KBPC
KBPC1006	600	10.0	55	300	1.05	5.0	10.0	600	KBPC
KBPC1008	800	10.0	55	300	1.05	5.0	10.0	800	KBPC
KBPC1010	1000	10.0	55	300	1.05	5.0	10.0	1000	KBPC
KBPC10005W	50	10.0	55	300	1.05	5.0	10.0	50	KBPCW
KBPC1001W	100	10.0	55	300	1.05	5.0	10.0	100	KBPCW
KBPC1002W	200	10.0	55	300	1.05	5.0	10.0	200	KBPCW
KBPC1004W	400	10.0	55	300	1.05	5.0	10.0	400	KBPCW
KBPC1006W	600	10.0	55	300	1.05	5.0	10.0	600	KBPCW
KBPC1008W	800	10.0	55	300	1.05	5.0	10.0	800	KBPCW
KBPC1010W	1000	10.0	55	300	1.05	5.0	10.0	1000	KBPCW
MP10005	50	10.0	55	300	1.05	5.0	10.0	50	MP
MP1001	100	10.0	55	300	1.05	5.0	10.0	100	MP
MP1002	200	10.0	55	300	1.05	5.0	10.0	200	MP
MP1004	400	10.0	55	300	1.05	5.0	10.0	400	MP
MP1006	600	10.0	55	300	1.05	5.0	10.0	600	MP
MP1008	800	10.0	55	300	1.05	5.0	10.0	800	MP
MP1010	1000	10.0	55	300	1.05	5.0	10.0	1000	MP
MP10005W	50	10.0	55	300	1.0	5.0	10.0	50	MPW
MP1001W	100	10.0	55	300	1.0	5.0	10.0	100	MPW
MP1002W	200	10.0	55	300	1.0	5.0	10.0	200	MPW
MP1004W	400	10.0	55	300	1.0	5.0	10.0	400	MPW
MP1006W	600	10.0	55	300	1.0	5.0	10.0	600	MPW
MP1008W	800	10.0	55	300	1.0	5.0	10.0	800	MPW
MP1010W	1000	10.0	55	300	1.0	5.0	10.0	1000	MPW



KBPC



KBPCW



MP



MPW

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package	
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$			
	V	A	°C	A	V	A	µA	V		
15.0 AMP Single-Phase Bridge Rectifiers										
KBU15005	50	15.0	100	300	1.0	7.5	10.0	50	KBU	
KBU1501	100	15.0	100	300	1.0	7.5	10.0	100	KBU	
KBU1502	200	15.0	100	300	1.0	7.5	10.0	200	KBU	
KBU1504	400	15.0	100	300	1.0	7.5	10.0	400	KBU	
KBU1506	600	15.0	100	300	1.0	7.5	10.0	600	KBU	
KBU1508	800	15.0	100	300	1.0	7.5	10.0	800	KBU	
KBU1510	1000	15.0	100	300	1.0	7.5	10.0	1000	KBU	
RS15005	50	15.0	100	300	1.0	7.5	10.0	50	KBU	
RS1501	100	15.0	100	300	1.0	7.5	10.0	100	KBU	
RS1502	200	15.0	100	300	1.0	7.5	10.0	200	KBU	
RS1504	400	15.0	100	300	1.0	7.5	10.0	400	KBU	
RS1506	600	15.0	100	300	1.0	7.5	10.0	600	KBU	
RS1508	800	15.0	100	300	1.0	7.5	10.0	800	KBU	
RS1510	1000	15.0	100	300	1.0	7.5	10.0	1000	KBU	
KBJ15005	50	15.0	100	240	1.0	7.5	10.0	50	KBJ	
KBJ1501	100	15.0	100	240	1.0	7.5	10.0	100	KBJ	
KBJ1502	200	15.0	100	240	1.0	7.5	10.0	200	KBJ	
KBJ1504	400	15.0	100	240	1.0	7.5	10.0	400	KBJ	
KBJ1506	600	15.0	100	240	1.0	7.5	10.0	600	KBJ	
KBJ1508	800	15.0	100	240	1.0	7.5	10.0	800	KBJ	
KBJ1510	1000	15.0	100	240	1.0	7.5	10.0	1000	KBJ	
GBU15005	50	15.0	100	240	1.0	7.5	5.0	50	GBU	
GBU1501	100	15.0	100	240	1.0	7.5	5.0	100	GBU	
GBU1502	200	15.0	100	240	1.0	7.5	5.0	200	GBU	
GBU1504	400	15.0	100	240	1.0	7.5	5.0	400	GBU	
GBU1506	600	15.0	100	240	1.0	7.5	5.0	600	GBU	
GBU1508	800	15.0	100	240	1.0	7.5	5.0	800	GBU	
GBU1510	1000	15.0	100	240	1.0	7.5	5.0	1000	GBU	
MP15005S	50	15.0	55	300	1.0	7.5	10.0	50	MPS	
MP1501S	100	15.0	55	300	1.0	7.5	10.0	100	MPS	
MP1502S	200	15.0	55	300	1.0	7.5	10.0	200	MPS	
MP1504S	400	15.0	55	300	1.0	7.5	10.0	400	MPS	
MP1506S	600	15.0	55	300	1.0	7.5	10.0	600	MPS	
MP1508S	800	15.0	55	300	1.0	7.5	10.0	800	MPS	
MP1510S	1000	15.0	55	300	1.0	7.5	10.0	1000	MPS	
KBPC15005	50	15.0	55	300	1.0	7.5	10.0	50	KBPC	
KBPC1501	100	15.0	55	300	1.0	7.5	10.0	100	KBPC	
KBPC1502	200	15.0	55	300	1.0	7.5	10.0	200	KBPC	
KBPC1504	400	15.0	55	300	1.0	7.5	10.0	400	KBPC	
KBPC1506	600	15.0	55	300	1.0	7.5	10.0	600	KBPC	
KBPC1508	800	15.0	55	300	1.0	7.5	10.0	800	KBPC	
KBPC1510	1000	15.0	55	300	1.0	7.5	10.0	1000	KBPC	
KBPC15005W	50	15.0	55	300	1.0	7.5	10.0	50	KBPCW	
KBPC1501W	100	15.0	55	300	1.0	7.5	10.0	100	KBPCW	
KBPC1502W	200	15.0	55	300	1.0	7.5	10.0	200	KBPCW	
KBPC1504W	400	15.0	55	300	1.0	7.5	10.0	400	KBPCW	
KBPC1506W	600	15.0	55	300	1.0	7.5	10.0	600	KBPCW	
KBPC1508W	800	15.0	55	300	1.0	7.5	10.0	800	KBPCW	
KBPC1510W	1000	15.0	55	300	1.0	7.5	10.0	1000	KBPCW	



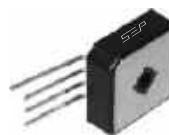
KBU



GBU



KBJ



MPS



KBPC



KBPCW

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	μA	V	
15.0 AMP Single-Phase Bridge Rectifiers									
MP15005	50	15.0	55	300	1.0	7.5	10.0	50	MP
MP1501	100	15.0	55	300	1.0	7.5	10.0	100	MP
MP1502	200	15.0	55	300	1.0	7.5	10.0	200	MP
MP1504	400	15.0	55	300	1.0	7.5	10.0	400	MP
MP1506	600	15.0	55	300	1.0	7.5	10.0	600	MP
MP1508	800	15.0	55	300	1.0	7.5	10.0	800	MP
MP1510	1000	15.0	55	300	1.0	7.5	10.0	1000	MP
MP15005W	50	15.0	55	300	1.0	7.5	10.0	50	MPW
MP1501W	100	15.0	55	300	1.0	7.5	10.0	100	MPW
MP1502W	200	15.0	55	300	1.0	7.5	10.0	200	MPW
MP1504W	400	15.0	55	300	1.0	7.5	10.0	400	MPW
MP1506W	600	15.0	55	300	1.0	7.5	10.0	600	MPW
MP1508W	800	15.0	55	300	1.0	7.5	10.0	800	MPW
MP1510W	1000	15.0	55	300	1.0	7.5	10.0	1000	MPW



MP



MPW

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
25.0 AMP Single-Phase Bridge Rectifiers									
KBU25005	50	25.0	100	350	1.0	12.5	10.0	50	KBU
KBU2501	100	25.0	100	350	1.0	12.5	10.0	100	KBU
KBU2502	200	25.0	100	350	1.0	12.5	10.0	200	KBU
KBU2504	400	25.0	100	350	1.0	12.5	10.0	400	KBU
KBU2506	600	25.0	100	350	1.0	12.5	10.0	600	KBU
KBU2508	800	25.0	100	350	1.0	12.5	10.0	800	KBU
KBU2510	1000	25.0	100	350	1.0	12.5	10.0	1000	KBU
RS25005	50	25.0	100	350	1.1	12.5	10.0	50	KBU
RS2501	100	25.0	100	350	1.1	12.5	10.0	100	KBU
RS2502	200	25.0	100	350	1.1	12.5	10.0	200	KBU
RS2504	400	25.0	100	350	1.1	12.5	10.0	400	KBU
RS2506	600	25.0	100	350	1.1	12.5	10.0	600	KBU
RS2508	800	25.0	100	350	1.1	12.5	10.0	800	KBU
RS2510	1000	25.0	100	350	1.1	12.5	10.0	1000	KBU
KBJ25005	50	25.0	100	350	1.0	12.5	10.0	50	KBJ
KBJ2501	100	25.0	100	350	1.0	12.5	10.0	100	KBJ
KBJ2502	200	25.0	100	350	1.0	12.5	10.0	200	KBJ
KBJ2504	400	25.0	100	350	1.0	12.5	10.0	400	KBJ
KBJ2506	600	25.0	100	350	1.0	12.5	10.0	600	KBJ
KBJ2508	800	25.0	100	350	1.0	12.5	10.0	800	KBJ
KBJ2510	1000	25.0	100	350	1.0	12.5	10.0	1000	KBJ
GBU25005	50	25.0	100	300	1.0	12.5	5.0	50	GBU
GBU2501	100	25.0	100	300	1.0	12.5	5.0	100	GBU
GBU2502	200	25.0	100	300	1.0	12.5	5.0	200	GBU
GBU2504	400	25.0	100	300	1.0	12.5	5.0	400	GBU
GBU2506	600	25.0	100	300	1.0	12.5	5.0	600	GBU
GBU2508	800	25.0	100	300	1.0	12.5	5.0	800	GBU
GBU2510	1000	25.0	100	300	1.0	12.5	5.0	1000	GBU
MP25005S	50	25.0	55	300	1.0	12.5	10.0	50	MPS
MP2501S	100	25.0	55	300	1.0	12.5	10.0	100	MPS
MP2502S	200	25.0	55	300	1.0	12.5	10.0	200	MPS
MP2504S	400	25.0	55	300	1.0	12.5	10.0	400	MPS
MP2506S	600	25.0	55	300	1.0	12.5	10.0	600	MPS
MP2508S	800	25.0	55	300	1.0	12.5	10.0	800	MPS
MP2510S	1000	25.0	55	300	1.0	12.5	10.0	1000	MPS
KBPC25005	50	25.0	55	300	1.0	12.5	10.0	50	KBPC
KBPC2501	100	25.0	55	300	1.0	12.5	10.0	100	KBPC
KBPC2502	200	25.0	55	300	1.0	12.5	10.0	200	KBPC
KBPC2504	400	25.0	55	300	1.0	12.5	10.0	400	KBPC
KBPC2506	600	25.0	55	300	1.0	12.5	10.0	600	KBPC
KBPC2508	800	25.0	55	300	1.0	12.5	10.0	800	KBPC
KBPC2510	1000	25.0	55	300	1.0	12.5	10.0	1000	KBPC
KBPC25005W	50	25.0	55	300	1.0	12.5	10.0	50	KBPCW
KBPC2501W	100	25.0	55	300	1.0	12.5	10.0	100	KBPCW
KBPC2502W	200	25.0	55	300	1.0	12.5	10.0	200	KBPCW
KBPC2504W	400	25.0	55	300	1.0	12.5	10.0	400	KBPCW
KBPC2506W	600	25.0	55	300	1.0	12.5	10.0	600	KBPCW
KBPC2508W	800	25.0	55	300	1.0	12.5	10.0	800	KBPCW
KBPC2510W	1000	25.0	55	300	1.0	12.5	10.0	1000	KBPCW



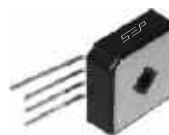
KBU



GBU



KBJ



MPS



KBPC



KBPCW

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	μA	V	
25.0 AMP Single-Phase Bridge Rectifiers									
MP25005	50	25.0	55	300	1.0	12.5	10.0	50	MP
MP2501	100	25.0	55	300	1.0	12.5	10.0	100	MP
MP2502	200	25.0	55	300	1.0	12.5	10.0	200	MP
MP2504	400	25.0	55	300	1.0	12.5	10.0	400	MP
MP2506	600	25.0	55	300	1.0	12.5	10.0	600	MP
MP2508	800	25.0	55	300	1.0	12.5	10.0	800	MP
MP2510	1000	25.0	55	300	1.0	12.5	10.0	1000	MP
MP25005W	50	25.0	55	300	1.0	12.5	10.0	50	MPW
MP2501W	100	25.0	55	300	1.0	12.5	10.0	100	MPW
MP2502W	200	25.0	55	300	1.0	12.5	10.0	200	MPW
MP2504W	400	25.0	55	300	1.0	12.5	10.0	400	MPW
MP2506W	600	25.0	55	300	1.0	12.5	10.0	600	MPW
MP2508W	800	25.0	55	300	1.0	12.5	10.0	800	MPW
MP2510W	1000	25.0	55	300	1.0	12.5	10.0	1000	MPW
25.0 AMP Three-Phase Bridge Rectifiers									
MT25005	50	25.0	55	300	1.0	12.5	10.0	50	MT
MT2501	100	25.0	55	300	1.0	12.5	10.0	100	MT
MT2502	200	25.0	55	300	1.0	12.5	10.0	200	MT
MT2504	400	25.0	55	300	1.0	12.5	10.0	400	MT
MT2506	600	25.0	55	300	1.0	12.5	10.0	600	MT
MT2508	800	25.0	55	300	1.0	12.5	10.0	800	MT
MT2510	1000	25.0	55	300	1.0	12.5	10.0	1000	MT
MT2512	1200	25.0	55	300	1.0	12.5	10.0	1200	MT
MT2514	1400	25.0	55	300	1.0	12.5	10.0	1400	MT
MT2516	1600	25.0	55	300	1.0	12.5	10.0	1600	MT



MP



MPW



MT

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	µA	V	
35.0 AMP Single-Phase Bridge Rectifiers									
KBU35005	50	35.0	100	400	1.0	17.5	10.0	50	KBU
KBU3501	100	35.0	100	400	1.0	17.5	10.0	100	KBU
KBU3502	200	35.0	100	400	1.0	17.5	10.0	200	KBU
KBU3504	400	35.0	100	400	1.0	17.5	10.0	400	KBU
KBU3506	600	35.0	100	400	1.0	17.5	10.0	600	KBU
KBU3508	800	35.0	100	400	1.0	17.5	10.0	800	KBU
KBU3510	1000	35.0	100	400	1.0	17.5	10.0	1000	KBU
RS35005	50	35.0	100	350	1.1	17.5	10.0	50	KBU
RS3501	100	35.0	100	350	1.1	17.5	10.0	100	KBU
RS3502	200	35.0	100	350	1.1	17.5	10.0	200	KBU
RS3504	400	35.0	100	350	1.1	17.5	10.0	400	KBU
RS3506	600	35.0	100	350	1.1	17.5	10.0	600	KBU
RS3508	800	35.0	100	350	1.1	17.5	10.0	800	KBU
RS3510	1000	35.0	100	350	1.1	17.5	10.0	1000	KBU
MP35005S	50	35.0	55	400	1.0	17.5	10.0	50	MPS
MP3501S	100	35.0	55	400	1.0	17.5	10.0	100	MPS
MP3502S	200	35.0	55	400	1.0	17.5	10.0	200	MPS
MP3504S	400	35.0	55	400	1.0	17.5	10.0	400	MPS
MP3506S	600	35.0	55	400	1.0	17.5	10.0	600	MPS
MP2508S	800	35.0	55	400	1.0	17.5	10.0	800	MPS
MP2510S	1000	35.0	55	400	1.0	17.5	10.0	1000	MPS
KBPC35005	50	35.0	55	400	1.0	17.5	10.0	50	KBPC
KBPC3501	100	35.0	55	400	1.0	17.5	10.0	100	KBPC
KBPC3502	200	35.0	55	400	1.0	17.5	10.0	200	KBPC
KBPC3504	400	35.0	55	400	1.0	17.5	10.0	400	KBPC
KBPC3506	600	35.0	55	400	1.0	17.5	10.0	600	KBPC
KBPC3508	800	35.0	55	400	1.0	17.5	10.0	800	KBPC
KBPC3510	1000	35.0	55	400	1.0	17.5	10.0	1000	KBPC
KBPC35005W	50	35.0	55	400	1.0	17.5	10.0	50	KBPCW
KBPC3501W	100	35.0	55	400	1.0	17.5	10.0	100	KBPCW
KBPC3502W	200	35.0	55	400	1.0	17.5	10.0	200	KBPCW
KBPC3504W	400	35.0	55	400	1.0	17.5	10.0	400	KBPCW
KBPC3506W	600	35.0	55	400	1.0	17.5	10.0	600	KBPCW
KBPC3508W	800	35.0	55	400	1.0	17.5	10.0	800	KBPCW
KBPC3510W	1000	35.0	55	400	1.0	17.5	10.0	1000	KBPCW
MP35005	50	35.0	55	400	1.0	17.5	10.0	50	MP
MP3501	100	35.0	55	400	1.0	17.5	10.0	100	MP
MP3502	200	35.0	55	400	1.0	17.5	10.0	200	MP
MP3504	400	35.0	55	400	1.0	17.5	10.0	400	MP
MP3506	600	35.0	55	400	1.0	17.5	10.0	600	MP
MP3508	800	35.0	55	400	1.0	17.5	10.0	800	MP
MP3510	1000	35.0	55	400	1.0	17.5	10.0	1000	MP
MP35005W	50	35.0	55	400	1.0	17.5	10.0	50	MPW
MP3501W	100	35.0	55	400	1.0	17.5	10.0	100	MPW
MP3502W	200	35.0	55	400	1.0	17.5	10.0	200	MPW
MP3504W	400	35.0	55	400	1.0	17.5	10.0	400	MPW
MP3506W	600	35.0	55	400	1.0	17.5	10.0	600	MPW
MP3508W	800	35.0	55	400	1.0	17.5	10.0	800	MPW
MP3510W	1000	35.0	55	400	1.0	17.5	10.0	1000	MPW



KBU



MPS



KBPC



KBPCW



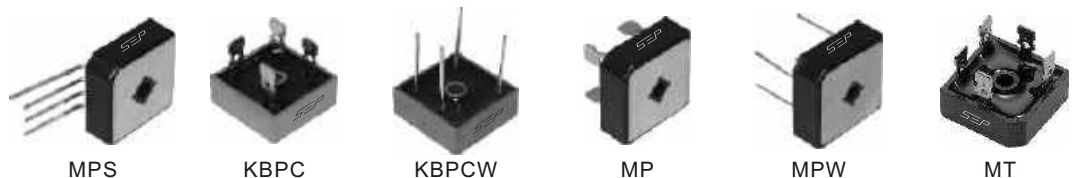
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MPW

Bridge Rectifiers

Part Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current		Package
	V_{RRM}	$I_o@T$		I_{FSM}	$V_F@I_F$		$I_R@V_R$		
	V	A	°C	A	V	A	μA	V	
35.0 AMP Three-Phase Bridge Rectifiers									
MT35005	50	35.0	55	400	1.0	17.5	10.0	50	MT
MT3501	100	35.0	55	400	1.0	17.5	10.0	100	MT
MT3502	200	35.0	55	400	1.0	17.5	10.0	200	MT
MT3504	400	35.0	55	400	1.0	17.5	10.0	400	MT
MT3506	600	35.0	55	400	1.0	17.5	10.0	600	MT
MT3508	800	35.0	55	400	1.0	17.5	10.0	800	MT
MT3510	1000	35.0	55	400	1.0	17.5	10.0	1000	MT
MT3512	1200	35.0	55	400	1.0	17.5	10.0	1200	MT
MT3514	1400	35.0	55	400	1.0	17.5	10.0	1400	MT
MT3516	1600	35.0	55	400	1.0	17.5	10.0	1600	MT
40.0 AMP Single-Phase Bridge Rectifiers									
MP40005S	50	40.0	55	400	1.0	20	10.0	50	MPS
MP4001S	100	40.0	55	400	1.0	20	10.0	100	MPS
MP4002S	200	40.0	55	400	1.0	20	10.0	200	MPS
MP4004S	400	40.0	55	400	1.0	20	10.0	400	MPS
MP4006S	600	40.0	55	400	1.0	20	10.0	600	MPS
MP4008S	800	40.0	55	400	1.0	20	10.0	800	MPS
MP4010S	1000	40.0	55	400	1.0	20	10.0	1000	MPS
50.0 AMP Single-Phase Bridge Rectifiers									
KBPC50005	50	50.0	40	400	1.05	25	10.0	50	KBPC
KBPC5001	100	50.0	40	400	1.05	25	10.0	100	KBPC
KBPC5002	200	50.0	40	400	1.05	25	10.0	200	KBPC
KBPC5004	400	50.0	40	400	1.05	25	10.0	400	KBPC
KBPC5006	600	50.0	40	400	1.05	25	10.0	600	KBPC
KBPC5008	800	50.0	40	400	1.05	25	10.0	800	KBPC
KBPC5010	1000	50.0	40	400	1.05	25	10.0	1000	KBPC
KBPC50005W	50	50.0	55	400	1.05	25	10.0	50	KBPCW
KBPC5001W	100	50.0	55	400	1.05	25	10.0	100	KBPCW
KBPC5002W	200	50.0	55	400	1.05	25	10.0	200	KBPCW
KBPC5004W	400	50.0	55	400	1.05	25	10.0	400	KBPCW
KBPC5006W	600	50.0	55	400	1.05	25	10.0	600	KBPCW
KBPC5008W	800	50.0	55	400	1.05	25	10.0	800	KBPCW
KBPC5010W	1000	50.0	55	400	1.05	25	10.0	1000	KBPCW
MP50005	50	50.0	55	400	1.05	25	10.0	50	MP
MP5001	100	50.0	55	400	1.05	25	10.0	100	MP
MP5002	200	50.0	55	400	1.05	25	10.0	200	MP
MP5004	400	50.0	55	400	1.05	25	10.0	400	MP
MP5006	600	50.0	55	400	1.05	25	10.0	600	MP
MP5008	800	50.0	55	400	1.05	25	10.0	800	MP
MP5010	1000	50.0	55	400	1.05	25	10.0	1000	MP
MP50005W	50	50.0	55	400	1.05	25	10.0	50	MPW
MP5001W	100	50.0	55	400	1.05	25	10.0	100	MPW
MP5002W	200	50.0	55	400	1.05	25	10.0	200	MPW
MP5004W	400	50.0	55	400	1.05	25	10.0	400	MPW
MP5006W	600	50.0	55	400	1.05	25	10.0	600	MPW
MP5008W	800	50.0	55	400	1.05	25	10.0	800	MPW
MP5010W	1000	50.0	55	400	1.05	25	10.0	1000	MPW
MP50005S	50	50.0	55	400	1.05	25	10.0	50	MPS
MP5001S	100	50.0	55	400	1.05	25	10.0	100	MPS
MP5002S	200	50.0	55	400	1.05	25	10.0	200	MPS
MP5004S	400	50.0	55	400	1.05	25	10.0	400	MPS
MP5006S	600	50.0	55	400	1.05	25	10.0	600	MPS
MP5008S	800	50.0	55	400	1.05	25	10.0	800	MPS
MP5010S	1000	50.0	55	400	1.05	25	10.0	1000	MPS



Transient Voltage Suppressor

Part Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max. Clamp Voltage	Peak Plus Current	Reverse Leakage	Package
			$V_{BR}@I_T$						
Uni	BI	V_{RWM}	Min.	Max.	I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_{RWM}$	
			V	V					
400W Transient Voltage Suppressor									
P4KE6.8A	P4KE6.8CA	5.80	6.45	7.14	10	10.5	39.00	1000	DO-41
P4KE7.5A	P4KE7.5CA	6.40	7.13	7.88	10	11.3	36.30	500	DO-41
P4KE8.2A	P4KE8.2CA	7.02	7.79	8.61	10	12.1	33.90	200	DO-41
P4KE9.1A	P4KE9.1CA	7.78	8.65	9.55	1	13.4	30.60	50	DO-41
P4KE10A	P4KE10CA	8.55	9.50	10.50	1	14.5	28.30	10	DO-41
P4KE11A	P4KE11CA	9.40	10.50	11.60	1	15.6	26.30	5	DO-41
P4KE12A	P4KE12CA	10.20	11.40	12.60	1	16.7	24.60	5	DO-41
P4KE13A	P4KE13CA	11.10	12.40	13.70	1	18.2	22.50	5	DO-41
P4KE15A	P4KE15CA	12.80	14.30	15.80	1	21.2	19.30	5	DO-41
P4KE16A	P4KE16CA	13.60	15.20	16.80	1	22.5	18.20	5	DO-41
P4KE18A	P4KE18CA	15.30	17.10	18.90	1	25.2	16.10	5	DO-41
P4KE20A	P4KE20CA	17.10	19.00	21.00	1	27.7	14.80	5	DO-41
P4KE22A	P4KE22CA	18.80	20.90	23.10	1	30.6	13.40	5	DO-41
P4KE24A	P4KE24CA	20.50	22.80	25.20	1	33.2	12.30	5	DO-41
P4KE27A	P4KE27CA	23.10	25.70	28.40	1	37.5	10.90	5	DO-41
P4KE30A	P4KE30CA	25.60	28.50	31.50	1	41.4	9.90	5	DO-41
P4KE33A	P4KE33CA	28.20	31.40	34.70	1	45.7	9.00	5	DO-41
P4KE36A	P4KE36CA	30.80	34.20	37.80	1	49.9	8.20	5	DO-41
P4KE39A	P4KE39CA	33.30	37.10	41.00	1	53.9	7.60	5	DO-41
P4KE43A	P4KE43CA	36.80	40.90	45.20	1	59.3	6.90	5	DO-41
P4KE47A	P4KE47CA	40.20	44.70	49.40	1	64.8	6.30	5	DO-41
P4KE51A	P4KE51CA	43.60	48.50	53.60	1	70.1	5.80	5	DO-41
P4KE56A	P4KE56CA	47.80	53.20	58.80	1	77.0	5.30	5	DO-41
P4KE62A	P4KE62CA	53.00	58.90	65.10	1	85.0	4.80	5	DO-41
P4KE68A	P4KE68CA	58.10	64.60	71.40	1	92.0	4.50	5	DO-41
P4KE75A	P4KE75CA	64.10	71.30	78.80	1	103.0	4.00	5	DO-41
P4KE82A	P4KE82CA	70.10	77.90	86.10	1	113.0	3.60	5	DO-41
P4KE91A	P4KE91CA	77.80	86.50	95.50	1	125.0	3.30	5	DO-41
P4KE100A	P4KE100CA	85.50	95.00	105.00	1	137.0	3.00	5	DO-41
P4KE110A	P4KE110CA	94.00	105.00	116.00	1	152.0	2.70	5	DO-41
P4KE120A	P4KE120CA	102.00	114.00	126.00	1	165.0	2.50	5	DO-41
P4KE130A	P4KE130CA	111.00	124.00	137.00	1	179.0	2.30	5	DO-41
P4KE150A	P4KE150CA	128.00	143.00	158.00	1	207.0	2.00	5	DO-41
P4KE160A	P4KE160CA	136.00	152.00	168.00	1	219.0	1.90	5	DO-41
P4KE170A	P4KE170CA	145.00	162.00	179.00	1	234.0	1.80	5	DO-41
P4KE180A	P4KE180CA	154.00	171.00	189.00	1	246.0	1.70	5	DO-41
P4KE200A	P4KE200CA	171.00	190.00	210.00	1	274.0	1.50	5	DO-41
P4KE220A	P4KE220CA	185.00	209.00	231.00	1	328.0	1.30	5	DO-41
P4KE250A	P4KE250CA	214.00	237.00	263.00	1	344.0	1.20	5	DO-41
P4KE300A	P4KE300CA	256.00	285.00	315.00	1	414.0	1.00	5	DO-41
P4KE350A	P4KE350CA	300.00	332.00	368.00	1	482.0	0.85	5	DO-41
P4KE400A	P4KE400CA	342.00	380.00	420.00	1	548.0	0.75	5	DO-41
P4KE440A	P4KE440CA	376.00	418.00	462.00	1	602.0	0.68	5	DO-41
P4KE480A	P4KE480CA	408.00	456.00	504.00	1	658.0	0.61	5	DO-41
P4KE510A	P4KE510CA	434.00	485.00	535.00	1	698.0	0.57	5	DO-41
P4KE530A	P4KE530CA	450.00	503.50	556.50	1	725.0	0.55	5	DO-41
P4KE540A	P4KE540CA	459.00	513.00	567.00	1	740.0	0.54	5	DO-41
P4KE550A	P4KE550CA	467.00	522.50	577.50	1	760.0	0.52	5	DO-41



DO-41

Transient Voltage Suppressor

Part Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max. Clamp Voltage	Peak Plus Current	Reverse Leakage	Package
			$V_{BR}@I_T$						
Uni	BI	V_{RWM}	Min.	Max.	I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_{RWM}$	
			V	V					
500W Transient Voltage Suppressor									
SA5.0A	SA5.0CA	5.00	6.40	7.07	10	9.2	54.3	600	DO-15
SA6.0A	SA6.0CA	6.00	6.67	7.37	10	10.3	48.5	600	DO-15
SA6.5A	SA6.5CA	6.50	7.22	7.98	10	11.2	44.6	400	DO-15
SA7.0A	SA7.0CA	7.00	7.78	8.60	10	12.0	41.7	150	DO-15
SA7.5A	SA7.5CA	7.50	8.33	9.21	1	12.9	38.8	50	DO-15
SA8.0A	SA8.0CA	8.00	8.89	9.83	1	13.6	36.8	25	DO-15
SA8.5A	SA8.5CA	8.50	9.44	10.43	1	14.4	34.7	10	DO-15
SA9.0A	SA9.0CA	9.00	10.00	11.10	1	15.4	32.5	5	DO-15
SA10A	SA10CA	10.00	11.10	12.30	1	17.0	29.4	3	DO-15
SA11A	SA11CA	11.00	12.20	13.50	1	18.2	27.5	3	DO-15
SA12A	SA12CA	12.00	13.30	14.70	1	19.9	25.1	3	DO-15
SA13A	SA13CA	13.00	14.40	15.90	1	21.5	23.3	3	DO-15
SA14A	SA14CA	14.00	15.60	17.20	1	23.2	21.6	3	DO-15
SA15A	SA15CA	15.00	16.70	18.50	1	24.4	20.5	3	DO-15
SA16A	SA16CA	16.00	17.80	19.70	1	26.0	19.2	3	DO-15
SA17A	SA17CA	17.00	18.90	20.90	1	27.6	18.1	3	DO-15
SA18A	SA18CA	18.00	20.00	22.10	1	29.2	17.1	3	DO-15
SA20A	SA20CA	20.00	22.20	24.50	1	32.4	15.4	3	DO-15
SA22A	SA22CA	22.00	24.40	27.00	1	35.5	14.1	3	DO-15
SA24A	SA24CA	24.00	26.70	29.50	1	38.9	12.9	3	DO-15
SA26A	SA26CA	26.00	28.90	31.90	1	42.1	11.9	3	DO-15
SA28A	SA28CA	28.00	31.10	34.40	1	45.4	11.0	3	DO-15
SA30A	SA30CA	30.00	33.30	36.80	1	48.4	10.3	3	DO-15
SA33A	SA33CA	33.00	36.70	40.60	1	53.3	9.4	3	DO-15
SA36A	SA36CA	36.00	40.00	44.20	1	58.1	8.6	3	DO-15
SA40A	SA40CA	40.00	44.40	49.10	1	64.5	7.8	3	DO-15
SA43A	SA43CA	43.00	47.80	52.80	1	69.4	7.2	3	DO-15
SA45A	SA45CA	45.00	50.00	55.30	1	72.7	6.9	3	DO-15
SA48A	SA48CA	48.00	53.30	58.90	1	77.4	6.5	3	DO-15
SA51A	SA51CA	51.00	56.70	62.70	1	82.4	6.1	3	DO-15
SA54A	SA54CA	54.00	60.00	66.30	1	87.1	5.7	3	DO-15
SA58A	SA58CA	58.00	64.40	71.20	1	93.6	5.3	3	DO-15
SA60A	SA60CA	60.00	66.70	73.70	1	96.8	5.2	3	DO-15
SA64A	SA64CA	64.00	71.10	78.60	1	103.0	4.9	3	DO-15
SA70A	SA70CA	70.00	77.80	86.00	1	113.0	4.4	3	DO-15
SA75A	SA75CA	75.00	83.30	92.10	1	121.0	4.1	3	DO-15
SA78A	SA78CA	78.00	86.70	95.80	1	126.0	4.0	3	DO-15
SA85A	SA85CA	85.00	94.40	104.30	1	137.0	3.6	3	DO-15
SA90A	SA90CA	90.00	100.00	110.50	1	146.0	3.4	3	DO-15
SA100A	SA100CA	100.00	111.00	122.70	1	162.0	3.1	3	DO-15
SA110A	SA110CA	110.00	122.00	134.80	1	177.0	2.8	3	DO-15
SA120A	SA120CA	120.00	133.00	147.00	1	193.0	2.6	3	DO-15
SA130A	SA130CA	130.00	144.00	159.20	1	209.0	2.4	3	DO-15
SA150A	SA150CA	150.00	167.00	184.60	1	243.0	2.1	3	DO-15
SA160A	SA160CA	160.00	178.00	196.70	1	259.0	1.9	3	DO-15
SA170A	SA170CA	170.00	189.00	208.90	1	275.0	1.8	3	DO-15



DO-15

Transient Voltage Suppressor

Part Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max. Clamp Voltage	Peak Plus Current	Reverse Leakage	Package
			$V_{BR}@I_T$						
Uni	BI	V_{RWM}	Min.	Max.	I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_{RWM}$	
			V	V					
600W Transient Voltage Suppressor									
P6KE6.8A	P6KE6.8CA	5.80	6.45	7.14	10	10.5	58.1	1000	DO-15
P6KE7.5A	P6KE7.5CA	6.40	7.13	7.88	10	11.3	54.0	500	DO-15
P6KE8.2A	P6KE8.2CA	7.02	7.79	8.61	10	12.1	50.4	200	DO-15
P6KE9.1A	P6KE9.1CA	7.78	8.65	9.55	1	13.4	45.5	50	DO-15
P6KE10A	P6KE10CA	8.55	9.50	10.50	1	14.5	42.1	10	DO-15
P6KE11A	P6KE11CA	9.40	10.50	11.60	1	15.6	39.1	5	DO-15
P6KE12A	P6KE12CA	10.20	11.40	12.60	1	16.7	36.5	5	DO-15
P6KE13A	P6KE13CA	11.10	12.40	13.70	1	18.2	33.5	5	DO-15
P6KE15A	P6KE15CA	12.80	14.30	15.80	1	21.2	28.8	5	DO-15
P6KE16A	P6KE16CA	13.60	15.20	16.80	1	22.5	27.1	5	DO-15
P6KE18A	P6KE18CA	15.30	17.10	18.90	1	25.2	24.2	5	DO-15
P6KE20A	P6KE20CA	17.10	19.00	21.00	1	27.7	22.0	5	DO-15
P6KE22A	P6KE22CA	18.80	20.90	23.10	1	30.6	19.9	5	DO-15
P6KE24A	P6KE24CA	20.50	22.80	25.20	1	33.2	18.4	5	DO-15
P6KE27A	P6KE27CA	23.10	25.70	28.40	1	37.5	16.3	5	DO-15
P6KE30A	P6KE30CA	25.60	28.50	31.50	1	41.4	14.7	5	DO-15
P6KE33A	P6KE33CA	28.20	31.40	34.70	1	45.7	13.3	5	DO-15
P6KE36A	P6KE36CA	30.80	34.20	37.80	1	49.9	12.2	5	DO-15
P6KE39A	P6KE39CA	33.30	37.10	41.00	1	53.9	11.3	5	DO-15
P6KE43A	P6KE43CA	36.80	40.90	45.20	1	59.3	10.3	5	DO-15
P6KE47A	P6KE47CA	40.20	44.70	49.40	1	64.8	9.4	5	DO-15
P6KE51A	P6KE51CA	43.60	48.50	53.60	1	70.1	8.7	5	DO-15
P6KE56A	P6KE56CA	47.80	53.20	58.80	1	77.0	7.9	5	DO-15
P6KE62A	P6KE62CA	53.00	58.90	65.10	1	85.0	7.2	5	DO-15
P6KE68A	P6KE68CA	58.10	64.60	71.40	1	92.0	6.6	5	DO-15
P6KE75A	P6KE75CA	64.10	71.30	78.80	1	103.0	5.9	5	DO-15
P6KE82A	P6KE82CA	70.10	77.90	86.10	1	113.0	5.4	5	DO-15
P6KE91A	P6KE91CA	77.80	86.50	95.50	1	125.0	4.9	5	DO-15
P6KE100A	P6KE100CA	85.50	95.00	105.00	1	137.0	4.5	5	DO-15
P6KE110A	P6KE110CA	94.00	105.00	116.00	1	152.0	4.0	5	DO-15
P6KE120A	P6KE120CA	102.00	114.00	126.00	1	165.0	3.7	5	DO-15
P6KE130A	P6KE130CA	111.00	124.00	137.00	1	179.0	3.4	5	DO-15
P6KE150A	P6KE150CA	128.00	143.00	158.00	1	207.0	2.9	5	DO-15
P6KE160A	P6KE160CA	136.00	152.00	168.00	1	219.0	2.8	5	DO-15
P6KE170A	P6KE170CA	145.00	162.00	179.00	1	234.0	2.6	5	DO-15
P6KE180A	P6KE180CA	154.00	171.00	189.00	1	246.0	2.5	5	DO-15
P6KE200A	P6KE200CA	171.00	190.00	210.00	1	274.0	2.2	5	DO-15
P6KE220A	P6KE220CA	185.00	209.00	231.00	1	328.0	1.9	5	DO-15
P6KE250A	P6KE250CA	214.00	237.00	263.00	1	344.0	1.8	5	DO-15
P6KE300A	P6KE300CA	256.00	285.00	315.00	1	414.0	1.5	5	DO-15
P6KE350A	P6KE350CA	300.00	332.00	368.00	1	482.0	1.3	5	DO-15
P6KE400A	P6KE400CA	342.00	380.00	420.00	1	548.0	1.1	5	DO-15
P6KE440A	P6KE440CA	376.00	418.00	462.00	1	602.0	1.0	5	DO-15
P6KE480A	P6KE480CA	408.00	456.00	504.00	1	658.0	0.9	5	DO-15
P6KE510A	P6KE510CA	434.00	485.00	535.00	1	698.0	0.9	5	DO-15
P6KE530A	P6KE530CA	450.00	503.50	556.50	1	725.0	0.8	5	DO-15
P6KE540A	P6KE540CA	459.00	513.00	567.00	1	740.0	0.8	5	DO-15
P6KE550A	P6KE550CA	467.00	522.50	577.50	1	760.0	0.8	5	DO-15



DO-15

Transient Voltage Suppressor

Part Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max. Clamp Voltage	Peak Plus Current	Reverse Leakage	Package
			$V_{BR}@I_T$						
Uni	BI	V_{RWM}	Min.	Max.	I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_{RWM}$	
			V	V					
1500W Transient Voltage Suppressor									
1.5KE6.8A	1.5KE6.8CA	5.80	6.45	7.14	10	10.50	144.8	1000	DO-201
1.5KE7.5A	1.5KE7.5CA	6.40	7.13	7.88	10	11.30	134.5	500	DO-201
1.5KE8.2A	1.5KE8.2CA	7.02	7.79	8.61	10	12.10	125.6	200	DO-201
1.5KE9.1A	1.5KE9.1CA	7.78	8.65	9.50	1	13.40	113.4	50	DO-201
1.5KE10A	1.5KE10CA	8.55	9.50	10.50	1	14.50	104.8	10	DO-201
1.5KE11A	1.5KE11CA	9.40	10.50	11.60	1	15.60	97.4	5	DO-201
1.5KE12A	1.5KE12CA	10.20	11.40	12.60	1	16.70	91.0	5	DO-201
1.5KE13A	1.5KE13CA	11.10	12.40	13.70	1	18.20	83.5	5	DO-201
1.5KE15A	1.5KE15CA	12.80	14.30	15.80	1	21.20	71.7	5	DO-201
1.5KE16A	1.5KE16CA	13.60	15.20	16.80	1	22.50	67.6	5	DO-201
1.5KE18A	1.5KE18CA	15.30	17.10	18.90	1	25.20	60.3	5	DO-201
1.5KE20A	1.5KE20CA	17.10	19.00	21.00	1	27.70	54.9	5	DO-201
1.5KE22A	1.5KE22CA	18.80	20.90	23.10	1	30.60	49.7	5	DO-201
1.5KE24A	1.5KE24CA	20.50	22.80	25.20	1	33.20	45.8	5	DO-201
1.5KE27A	1.5KE27CA	23.10	25.70	28.40	1	37.50	40.5	5	DO-201
1.5KE30A	1.5KE30CA	25.60	28.50	31.50	1	41.40	36.7	5	DO-201
1.5KE33A	1.5KE33CA	28.20	31.40	34.70	1	45.70	33.3	5	DO-201
1.5KE36A	1.5KE36CA	30.80	34.20	37.80	1	49.90	30.5	5	DO-201
1.5KE39A	1.5KE39CA	33.30	37.10	41.00	1	53.90	28.2	5	DO-201
1.5KE43A	1.5KE43CA	36.80	40.90	45.20	1	59.30	25.6	5	DO-201
1.5KE47A	1.5KE47CA	40.20	44.70	49.40	1	64.80	23.5	5	DO-201
1.5KE51A	1.5KE51CA	43.60	48.50	53.60	1	70.10	21.7	5	DO-201
1.5KE56A	1.5KE56CA	47.80	53.20	58.80	1	77.00	19.7	5	DO-201
1.5KE62A	1.5KE62CA	53.00	58.90	65.10	1	85.00	17.9	5	DO-201
1.5KE68A	1.5KE68CA	58.10	64.60	71.40	1	92.00	16.5	5	DO-201
1.5KE75A	1.5KE75CA	64.10	71.30	78.80	1	103.00	14.8	5	DO-201
1.5KE82A	1.5KE82CA	70.10	77.90	86.10	1	113.00	13.5	5	DO-201
1.5KE91A	1.5KE91CA	77.80	86.50	95.50	1	125.00	12.2	5	DO-201
1.5KE100A	1.5KE100CA	85.50	95.00	105.00	1	137.00	11.1	5	DO-201
1.5KE110A	1.5KE110CA	94.00	105.00	116.00	1	152.00	10.0	5	DO-201
1.5KE120A	1.5KE120CA	102.00	114.00	126.00	1	165.00	9.2	5	DO-201
1.5KE130A	1.5KE130CA	111.00	124.00	137.00	1	179.00	8.5	5	DO-201
1.5KE150A	1.5KE150CA	128.00	143.00	158.00	1	207.00	7.3	5	DO-201
1.5KE160A	1.5KE160CA	136.00	152.00	168.00	1	219.00	6.9	5	DO-201
1.5KE170A	1.5KE170CA	145.00	162.00	179.00	1	234.00	6.5	5	DO-201
1.5KE180A	1.5KE180CA	154.00	171.00	189.00	1	246.00	6.2	5	DO-201
1.5KE200A	1.5KE200CA	171.00	190.00	210.00	1	274.00	5.5	5	DO-201
1.5KE220A	1.5KE220CA	185.00	209.00	231.00	1	328.00	4.6	5	DO-201
1.5KE250A	1.5KE250CA	214.00	237.00	263.00	1	344.00	4.4	5	DO-201
1.5KE300A	1.5KE300CA	256.00	285.00	315.00	1	414.00	3.7	5	DO-201
1.5KE350A	1.5KE350CA	300.00	332.00	368.00	1	482.00	3.2	5	DO-201
1.5KE400A	1.5KE400CA	342.00	380.00	420.00	1	548.00	2.8	5	DO-201
1.5KE440A	1.5KE440CA	376.00	418.00	462.00	1	602.00	2.5	5	DO-201
1.5KE480A	1.5KE480CA	408.00	456.00	504.00	1	658.00	2.3	5	DO-201
1.5KE510A	1.5KE510CA	434.00	485.00	535.00	1	698.00	2.1	5	DO-201
1.5KE530A	1.5KE530CA	450.00	503.50	556.50	1	725.00	2.1	5	DO-201
1.5KE540A	1.5KE540CA	459.00	513.00	567.00	1	740.00	2.0	5	DO-201
1.5KE550A	1.5KE550CA	467.00	522.50	577.50	1	760.00	2.0	5	DO-201



DO-201

Transient Voltage Suppressor

Part Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max. Clamp Voltage	Peak Plus Current	Reverse Leakage	Package
			$V_{BR}@I_T$						
Uni	BI	V_{RWM}	Min.	Max.	I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_{RWM}$	
			V	V					
5000W Transient Voltage Suppressor									
5KP5.0A	5KP5.0CA	5.0	6.40	7.00	50	9.2	544.0	5000	R-6
5KP6.0A	5KP6.0CA	6.0	6.67	7.37	50	10.3	486.0	5000	R-6
5KP6.5A	5KP6.5CA	6.5	7.22	7.98	50	11.2	447.0	2000	R-6
5KP7.0A	5KP7.0CA	7.0	7.78	8.60	50	12.0	417.0	1000	R-6
5KP7.5A	5KP7.5CA	7.5	8.33	9.21	5	12.9	388.0	250	R-6
5KP8.0A	5KP8.0CA	8.0	8.89	9.83	5	13.6	368.0	150	R-6
5KP8.5A	5KP8.5CA	8.5	9.44	10.40	5	14.4	348.0	10	R-6
5KP9.0A	5KP9.0CA	9.0	10.00	11.10	5	15.4	325.0	10	R-6
5KP10A	5KP10CA	10.0	11.10	12.30	5	17.0	295.0	10	R-6
5KP11A	5KP11CA	11.0	12.20	13.50	5	18.2	275.0	10	R-6
5KP12A	5KP12CA	12.0	13.30	14.70	5	19.9	252.0	10	R-6
5KP13A	5KP13CA	13.0	14.40	15.90	5	21.5	233.0	10	R-6
5KP14A	5KP14CA	14.0	15.60	17.20	5	23.2	216.0	10	R-6
5KP15A	5KP15CA	15.0	16.70	18.50	5	24.4	205.0	10	R-6
5KP16A	5KP16CA	16.0	17.80	19.70	5	26.0	193.0	10	R-6
5KP17A	5KP17CA	17.0	18.90	20.90	5	27.6	181.0	10	R-6
5KP18A	5KP18CA	18.0	20.00	22.10	5	29.2	172.0	10	R-6
5KP20A	5KP20CA	20.0	22.20	24.50	5	32.4	154.0	10	R-6
5KP22A	5KP22CA	22.0	24.00	26.90	5	35.5	141.0	10	R-6
5KP24A	5KP24CA	24.0	26.70	29.50	5	38.9	129.0	10	R-6
5KP26A	5KP26CA	26.0	28.90	31.90	5	42.1	119.0	10	R-6
5KP28A	5KP28CA	28.0	31.10	34.40	5	45.4	110.0	10	R-6
5KP30A	5KP30CA	30.0	33.30	36.80	5	48.4	103.0	10	R-6
5KP33A	5KP33CA	33.0	36.70	40.60	5	53.3	93.9	10	R-6
5KP36A	5KP36CA	36.0	40.00	44.20	5	58.1	86.1	10	R-6
5KP40A	5KP40CA	40.0	44.40	49.10	5	64.5	77.6	10	R-6
5KP43A	5KP43CA	43.0	47.80	52.80	5	69.4	72.1	10	R-6
5KP45A	5KP45CA	45.0	50.00	55.30	5	72.7	68.8	10	R-6
5KP48A	5KP48CA	48.0	53.30	58.90	5	77.4	64.7	10	R-6
5KP51A	5KP51CA	51.0	56.70	62.70	5	82.4	60.7	10	R-6
5KP54A	5KP54CA	54.0	60.00	66.30	5	87.1	57.5	10	R-6
5KP58A	5KP58CA	58.0	64.40	71.20	5	93.6	53.5	10	R-6
5KP60A	5KP60CA	60.0	66.70	73.70	5	96.8	51.7	10	R-6
5KP64A	5KP64CA	64.0	71.10	78.60	5	103.0	48.6	10	R-6
5KP70A	5KP70CA	70.0	77.80	86.00	5	113.0	44.3	10	R-6
5KP75A	5KP75CA	75.0	83.30	92.10	5	121.0	41.4	10	R-6
5KP78A	5KP78CA	78.0	86.70	95.80	5	126.0	39.7	10	R-6
5KP85A	5KP85CA	85.0	94.40	104.00	5	137.0	36.5	10	R-6
5KP90A	5KP90CA	90.0	100.00	111.00	5	146.0	34.3	10	R-6
5KP100A	5KP100CA	100.0	110.00	123.00	5	162.0	30.9	10	R-6
5KP110A	5KP110CA	110.0	122.00	135.00	5	177.0	28.3	10	R-6
5KP120A	5KP120CA	120.0	133.00	147.00	5	193.0	26.0	10	R-6
5KP130A	5KP130CA	130.0	144.00	159.00	5	209.0	24.0	10	R-6
5KP150A	5KP150CA	150.0	167.00	185.00	5	243.0	20.6	10	R-6
5KP160A	5KP160CA	160.0	178.00	197.00	5	259.0	19.3	10	R-6
5KP170A	5KP170CA	170.0	189.00	209.00	5	275.0	18.2	10	R-6
5KP180A	5KP180CA	180.0	200.00	221.00	5	292.0	17.6	10	R-6
5KP190A	5KP190CA	190.0	211.00	233.00	5	310.0	9.7	10	R-6
5KP200A	5KP200CA	200.0	222.00	246.00	5	329.2	9.1	10	R-6
5KP210A	5KP210CA	210.0	233.00	258.00	5	349.5	8.6	10	R-6
5KP220A	5KP220CA	220.0	244.00	270.00	5	371.1	8.1	10	R-6



R-6

Product Carton Specification

REEL PACKAGING (T/R)

PACKAGE	REEL (pcs)	PITCH OF BODY (m/m)	CARTON SIZE (m/m)	CARTON (EA)	APPROX. GROSS WEIGHT(Kg)
DO-27	1,200	5.0	360x350x430	6,000	11.2
DO-201AD	1,200	5.0	360x350x430	6,000	11.2
DO-41	5,000	5.0	350x350x350	20,000	10.5
DO-15	4,000	5.0	350x350x350	16,000	10.0
DO-35	1,200	10.0	350x350x350	4,800	9.2
R-6	750	10.0	350x350x350	3,000	7.8
SMA	1,800/7,500	4.0	350x350x350	144,000/120,000	19.5/16.6
SMB	500/3,000	8.0	364x356x340	40,000/48,000	12.6/13.1
SMC	500/3,000	4.0	364x356x340	30,000/42,000	15.6/18.6
MELF	5,000	4.0	364x356x340	80,000	19.0
DL-35	2,500	8.0	350x350x440	100,000	13.2

AMMO BOX PACKAGING (T/B)

PACKAGE	AMMO (pcs)	PITCH OF BODY (m/m)	BOX SIZE (m/m)	CARTON SIZE (m/m)	CARTON (EA)	APPROX. GROSS WEIGHT(Kg)
DO-27	1,200	5.0	210x75x140	470x275x235	12,000	19.5
DO-201AD	1,200	5.0	210x75x140	470x275x235	12,000	19.5
DO-41	5,000	5.0	255x85x105	410x350x275	50,000	19.0
DO-15	2,000	5.0	255x85x105	465x275x240	20,000	11.0
DO-35	800	10.0	255x85x105	465x275x240	8,000	13.0
R-6	300	10.0	255x85x85	4.5x275x240	3,000	9.0

BULK PACKAGING

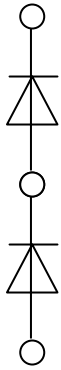
PACKAGE	BOX (EA)	BOX SIZE (m/m)	CARTON SIZE (m/m)	CARTON (EA)	APPROX. GROSS WEIGHT(Kg)
DO-41	1,000	185x83x20	450x210x250	50,000	19.2
DO-15	500	203x83x254	465x275x233	12,000	17.0
DO-27	500	305x75x40	350x350x350	12,000	18.0
DO-201AD	500	305x75x40	350x350x350	12,000	18.0
R-6	200	305x75x40	350x350x350	4,800	14.0
DB	5,000	500x160x150	510x330x160	10,000	9.0
MB-S	5,000	500x160x150	510x330x160	10,000	9.0
RB15	1,000	210x202x70	480x230x440	10,000	14.5
WOM	1,000	210x202x70	480x230x440	10,000	14.5
RS1	600	215x110x35	410x210x195	5,000	11.0
KBP	500	195x195x35	440x230x023	5,000	13.0
RS2	500	230x220x40	420x340x175	6,000	17.0
KBL	500	230x230x50	480x240x180	3,000	19.7
RS4L	500	230x230x50	480x240x180	3,000	19.7
RS5	200	230x230x50	480x240x280	2,000	22.0
KBU	400	230x230x50	480x240x180	2,400	20.8
RS6-25	400	230x230x50	480x240x180	2,400	20.8
GBU	400	230x230x50	480x240x180	2,400	20.8
KBJ	400	195x195x35	420x210x260	2,500	19.0
KBPC1	200	200x200x45	420x210x260	2,000	10.6
KBPC6	200	200x200x45	420x210x260	2,000	10.6
BR3	200	200x200x45	420x210x260	2,000	10.6
BR6	200	200x200x45	420x210x260	2,000	10.6
KBPC8	200	230x230x50	480x240x280	2,000	16.0
BR8	200	230x230x50	480x240x280	2,000	16.0
BR10	200	230x230x50	480x240x280	2,000	16.0
KBPC	50	200x200x45	420x210x260	500	16.3
MP	50	200x200x45	420x210x260	500	11.8
MP-S	120	220x220x40	440x230x230	1,200	22.0
TO-220	1,000	555x155x95	560x300x180	5,000	14.5
TO-3P	500	555x155x95	560x300x180	2,000	16.8

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фото, аналог, замена,

Content


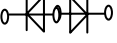
Modules	
Diode	1
	MD1 MD7
Thyristor	5
	MD1 MD7
Bridge Rectifier	8
	MD5 MD8 MD9
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Diode	12
	D04 D05 D08 D09
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Modules-Diode

Type	V_{RRM} V $V_{RSM} =$ $V_{RRM} + 100V$	I_{FSM}/i^2t A/A ² t 10 ms, @25°C	I_{FAV}/T_C A/°C Sin 180	$V_{(TO)}$ V @125°C	r_T mΩ @125°C	$R_{th(j-s)}$ per Diode/ Module °C/W	Case	Circuit
MD1LU15	800-1600	320/510	15/83	0.85	15.0	2.2/1.1	A1	
MD7LU18	800-1600	370/685	17/79	0.85	12.0	2.2/1.1	A2	
MD7LU25	800-1600	550/1510	27/82	0.85	11.0	1.2/0.6	A2	
MD7LU40	800-1600	700/2450	38/80	0.85	5.0	1.1/0.55	A2	
MD7LU55	800-1600	1150/6610	60/79	0.85	3.0	0.8/0.4	A2	
MD7LU70	800-1600	1750/15310	70/79	0.85	2.0	0.75/0.375	A2	
MD7LU81	800-1600	2000/20000	80/86	0.85	1.8	0.6/0.3	A2	
MD7LU95	800-1600	2150/23110	95/85	0.85	1.5	0.55/0.275	A2	
MD7LU105	800-1600	2300/26450	115/75	0.85	1.5	0.55/0.275	A2	
MD1EW15	800-1600	320/510	15/83	0.85	15.0	2.2	A3	
MD7EW18	800-1600	370/685	17/79	0.85	12.0	2.2	A4	
MD7EW25	800-1600	550/1510	27/82	0.85	11.0	1.2	A4	
MD7EW40	800-1600	700/2450	38/80	0.85	5.0	1.1	A4	

Note: T_{vj} (all module) = 125° C

Modules-Diode

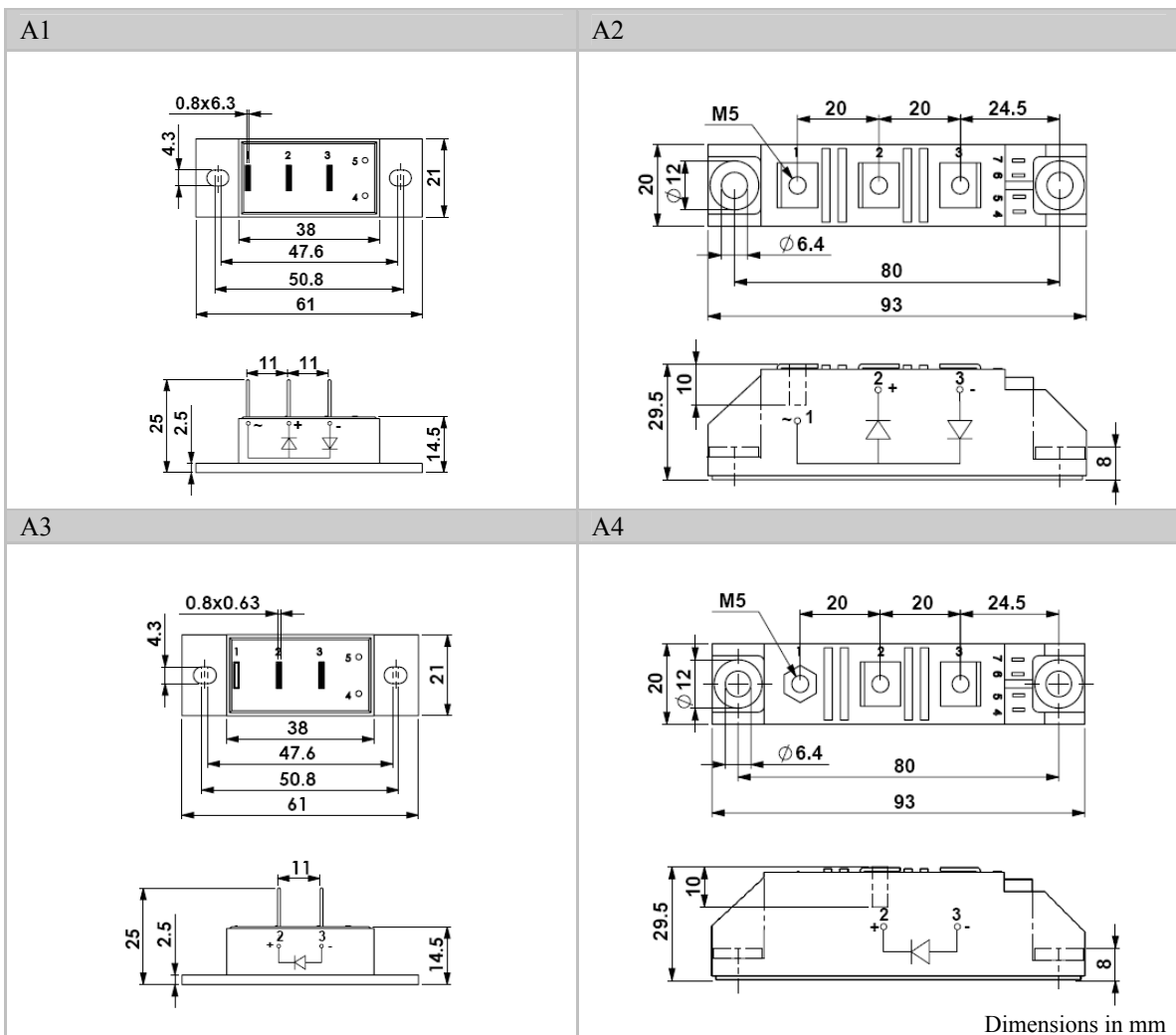
Type	V_{RRM} V $V_{RSM} = V_{RRM} + 100V$	I_{FSM}/i^2t A/A ² t 10 ms, @25°C	I_{FAV}/T_C A/°C Sin 180	$V_{(TO)}$ V @125°C	r_T mΩ @125°C	$R_{th(j-s)}$ per Diode/ Module °C/W	Case	Circuit
MD7EW55	800-1600	1150/6610	60/79	0.85	3.0	0.8	A4	
MD7EW70	800-1600	1750/15310	70/79	0.85	2.0	0.75	A4	
MD7EW81	800-1600	2000/20000	80/86	0.85	1.8	0.6	A4	
MD7EW95	800-1600	2300/26450	95/85	0.85	1.5	0.55	A4	
MD7DU55	800-2200	1150/6610	60/79	0.85	3.0	0.8/0.4	A4	
MD7DU70	800-2200	1750/15310	70/79	0.85	2.0	0.75/0.375	A4	
MD7DU81	800-2200	2000/20000	80/85	0.85	1.8	0.6/0.3	A4	
MD1MU15	800-1600	320/510	15/83	0.85	15	2.2/1.1	A5	
MD7MU55	800-1600	1150/6610	60/79	0.85	3.0	0.8/0.4	A6	
MD7MU70	800-1600	1750/15310	70/79	0.85	2.0	0.75/0.375	A6	
MD7MU95	800-1600	2300/26450	95/85	0.85	1.5	0.55/0.275	A6	
MD1NU15	800-1600	320/510	15/83	0.85	15	2.2/1.1	A7	
MD7NU55	800-1600	1150/6610	60/79	0.85	3.0	0.8/0.4	A8	

Note: T_{Vj} (all module) = 125° C

Modules-Diode

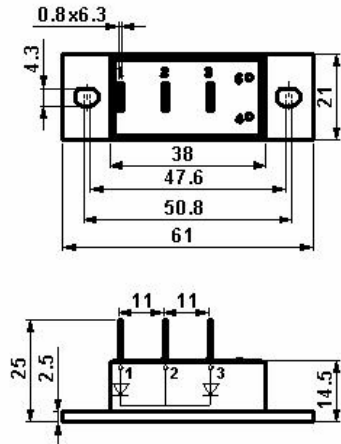
Type	V_{RRM} V $V_{RSM} = V_{RRM} + 100V$	I_{FSM}/i^2t A/A ² t 10 ms, @25°C	I_{FAV}/T_C A/°C Sin 180	$V_{(TO)}$ V @125°C	r_T mΩ @125°C	$R_{th(j-s)}$ per Diode/ Module °C/W	Case	Circuit
MD1NU70	800-1600	1750/15310	70/79	0.85	2.0	0.75/0.375	A8	
MD7NU95	800-1600	2300/26450	95/85	0.85	1.5	0.55/0.275	A8	

Note: T_{vj} (all module) = 125° C

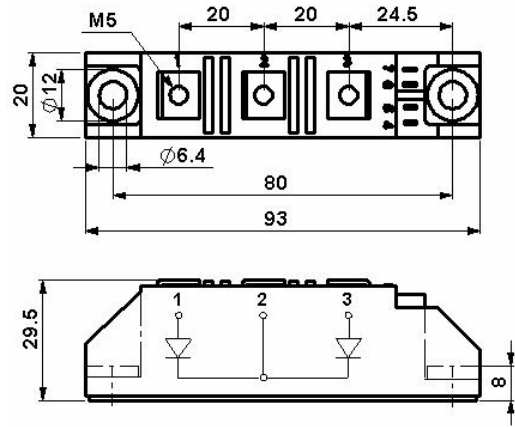


Modules-Diode

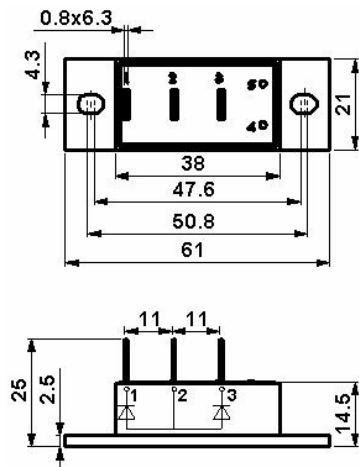
A5



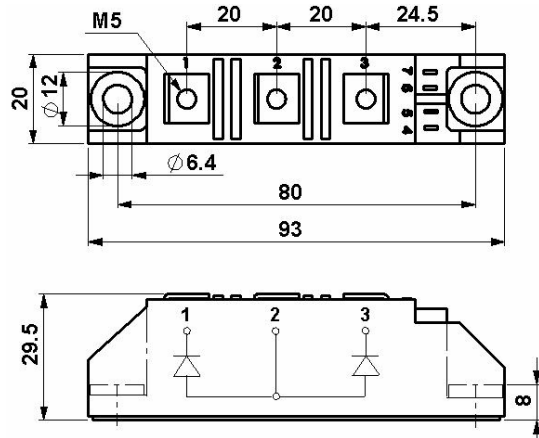
A6



A7

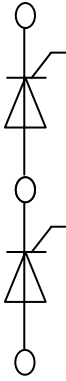
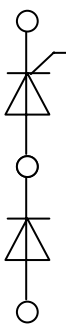


A8



Dimensions in mm

Modules-Thyristor

Type	V_{DRM}, V_{RRM} V $V_{DSM} = V_{RSM}$ = $V_{RRM} + 100V$	I_{TSM}/i^2t A/A ² t 10 ms, @25°C	I_{TAV}/T_C A/°C Sin 180	$V_{T(TO)}$ V @125°C	r_T mΩ @125°C	$R_{th(i-s)}$ per Thyristor/ Module °C/W	Case	Circuit	
MD1LC15	800-1600	320/510	14.5/80	1.1	20.0	1.9/0.95	A9		
MD7LC19	800-1800	320/510	19.5/80	1.0	16.0	1.5/0.75	A10		
MD7LC27	800-1800	470/1100	27/81	0.9	12.0	1.15/0.575	A10		
MD7LC42	800-1800	1000/5000	44/80	1.0	4.5	0.89/0.445	A10		
MD7LC57	800-1800	1500/11250	55/80	0.9	3.5	0.8/0.4	A10		
MD7LC72	800-1800	1600/12800	72/85	0.9	3.5	0.57/0.285	A10		
MD7LC97	800-1800	2000/20000	97/85	0.9	2.0	0.5/0.25	A10		
MD7LC107	800-1800	2250/25310	105/80	0.9	2.0	0.5/0.25	A10		
MD1LK15	800-1600	320/510	14.5/80	1.1	20.0	1.9/0.95	A11		
MD7LK19	800-1800	320/510	19.5/80	1.0	16.0	1.5/0.75	A12		
MD7LK27	800-1800	470/1100	27/81	0.9	12.0	1.15/0.575	A12		
MD7LK42	800-1800	1000/5000	44/80	1.0	4.5	0.89/0.445	A12		

Note: T_{vj} (all module) = 125° C

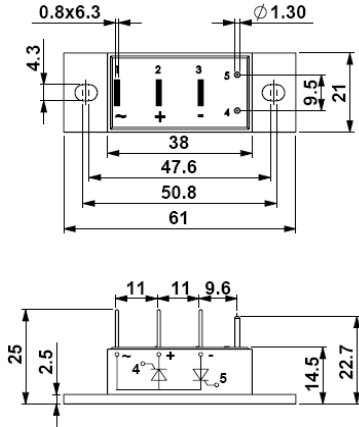
Modules-Thyristor

Type	V_{DRM}, V_{RRM} V $V_{DSM} = V_{RSM}$ = $V_{RRM} + 100V$	I_{TSM}/t^2 A/A ² t 10 ms, @25°C	I_{TAV}/T_C A/°C Sin 180	$V_{T(TO)}$ V @125°C	r_T mΩ @125°C	$R_{th(j-s)}$ per Thyristor/ Module °C/W	Case	Circuit
MD7LK57	800-1800	1500/11250	55/80	0.9	3.5	0.8/0.4	A12	
MD7LK72	800-1800	1600/12800	72/85	0.9	3.5	0.57/0.285	A12	
MD7LK97	800-1800	2000/20000	97/85	0.9	2.0	0.5/0.25	A12	
MD7LK107	800-1800	2250/25310	105/80	0.9	2.0	0.5/0.25	A12	
MD1MC15	800-1600	320/510	14.5/80	1.1	20.0	1.9/0.95	A13	
MD7MC19	800-1800	320/510	19.5/80	1.0	16.0	1.5/0.75	A14	
MD7MC27	800-1800	470/1100	27/81	0.9	12.0	1.15/0.575	A14	
MD7MC42	800-1800	1000/5000	44/80	1.0	4.5	0.89/0.445	A14	
MD7MC57	800-1800	1500/11250	55/80	0.9	3.5	0.8/0.4	A14	
MD7MC72	800-1800	1600/12800	72/85	0.9	3.5	0.57/0.285	A14	
MD7MC97	800-1800	2000/20000	97/85	0.9	2.0	0.5/0.25	A14	
MD7MC107	800-1800	2250/25310	105/80	0.9	2.0	0.5/0.25	A14	

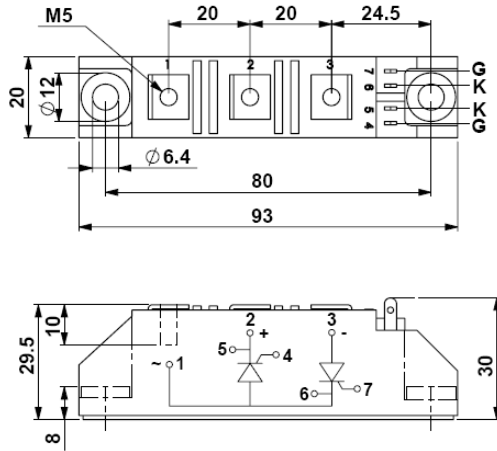
Note: T_{vj} (all module) = 125° C

Modules-Thyristor

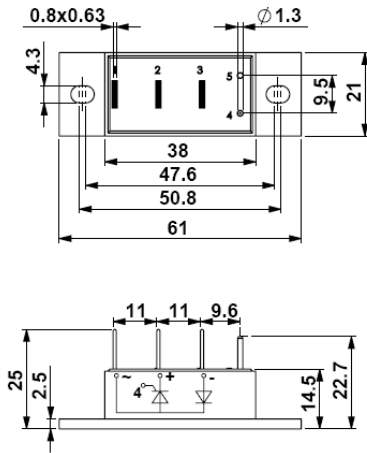
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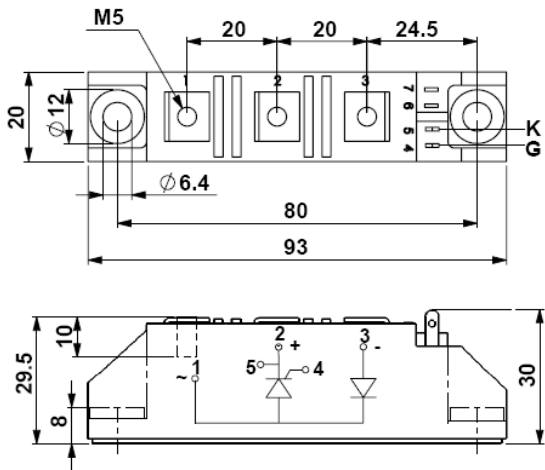
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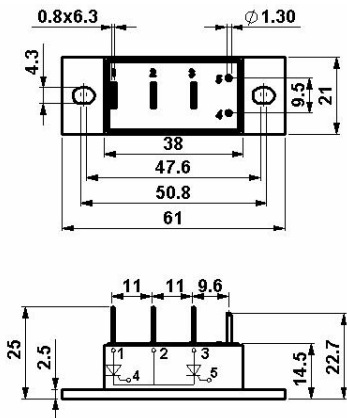
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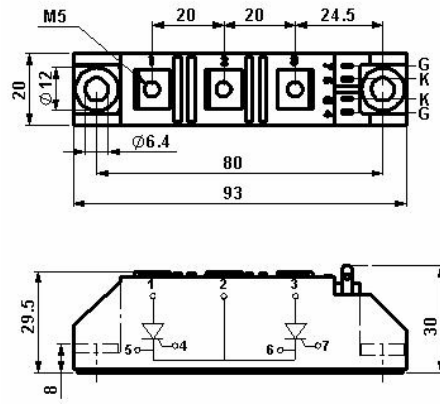
A12



A13

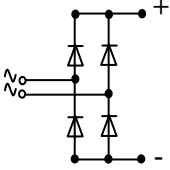
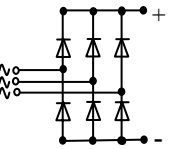


A14



Dimensions in mm

Modules-Bridge Rectifier

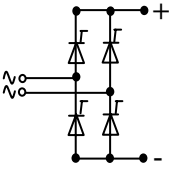
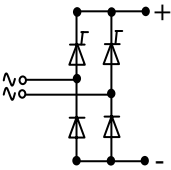
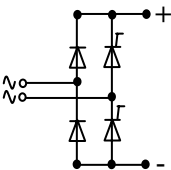
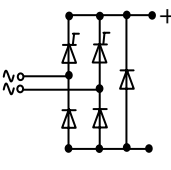
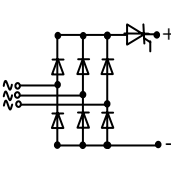
$V_{RRM} = (400 \dots 1600) \text{ V}$ $V_{RSM} = V_{RRM} + 100\text{V}$									
Type	I_{FSM}/I^2t $\text{A/A}^2\text{s}$ 10 ms, @25°C	$I_D^{1)/T_C}$ $\text{A/}^\circ\text{C}$	$V_{(TO)}$ V @125°C	r_T $\text{m}\Omega$ @25°C	$R_{th(i-s)}$ $^\circ\text{C/W}$ per Module	T_{VJ} max $^\circ\text{C}$	Case	Circuit	
MD5BU10	180/160	10/55	0.85	30	$4(R_{thj-a})$	150	A9		
MD5BU15	300/450	15/25	0.85	12	$4(R_{thj-a})$	150	A9		
MD8BU30	370/685	32/85	0.85	12	0.545	125	A10		
MD8BU60	1150/6610	67/85	0.85	5	0.3	125	A10		
MD9BU25	370/685	30/100	0.85	12	0.35	125	A11		
MD9BU55	370/685	52/80	0.85	12	0.35	125	A11		
MD5TU10	180/160	10/55	0.85	30	$3(R_{thj-a})$	150	A12		
MD5TU15	300/450	15/30	0.85	12	$3(R_{thj-a})$	150	A12		
MD8TU30	370/685	40/90	0.85	12	0.43	125	A13		
MD8TU60	1000/5000	75/95	0.85	5	0.191	125	A13		
MD8TU100	1150/6610	100/80	0.85	5	0.191	125	A13		
MD9TU25	370/685	25/110	0.85	12	0.25	125	A14		
MD9TU55	370/685	55/90	0.85	12	0.25	125	A14		
MD9TU110	1150/6610	110/75	0.85	5	0.191	125	A14		

¹⁾ rec. 180 deg conduction for single phase bridge rectifier and rec. 120 deg conduction for three phase bridge rectifier

Modules-Bridge Rectifier

$$V_{DRM}, V_{RRM} = 400 \dots 1400 \text{ V}$$

$$V_{DSM} = V_{RSM} = V_{RRM} + 100 \text{ V}$$

Type	I_{TSM}/I^2t A/ A ² s 10 ms, @25°C	$I_D^{1)/T_C}$ A/°C	$V_{T(TO)}$ V @125°C	r_T mΩ @125°C	$R_{th(j-s)}$ °C/W per Module	Case	Circuit
MD8BC26	320/510	30/85	1	16	0.50	A15	
MD8BC41	470/1100	41/90	1	16	0.3	A15	
MD8BH26	320/510	30/85	1	16	0.50	A16	
MD8BH41	470/1100	41/90	1	16	0.3	A16	
MD8BZ26	320/510	30/85	1	16	0.50	A16	
MD8BZ41	470/1100	41/90	1	16	0.3	A16	
MD8BKW26	320/510	30/85	1	16	0.50	A16	
MD8BKW41	470/1100	41/90	1	16	0.3	A16	
MD8TUC26	470/1100	30/81	0.9	12	0.31	A17	
MD8TUC41	1000/5000	41/90	1	4.5	0.2	A17	

¹⁾ rec. 180 deg conduction for single phase bridge rectifier and rec. 120 deg conduction for three phase bridge rectifier

Note: T_{Vj} (all module) = 125° C

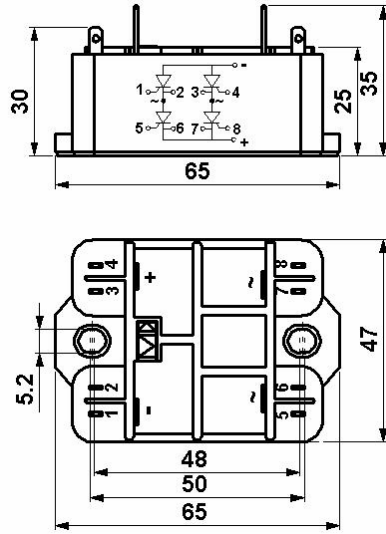
Modules-Bridger Rectifier

<p>A9</p>	<p>A10</p>
<p>A11</p>	<p>A12</p>
<p>A13</p>	<p>A14</p>

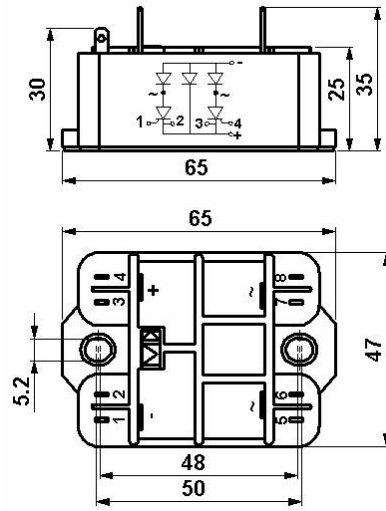
Dimensions in mm

Modules-Bridge Rectifier

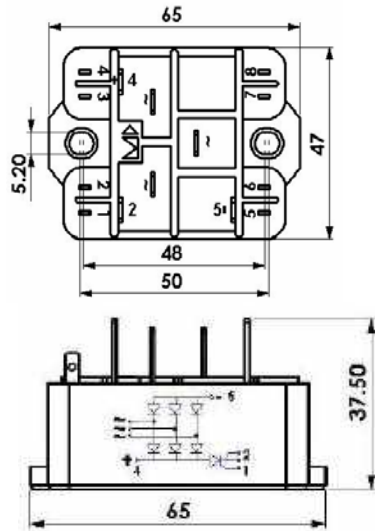
A15



A16



A17

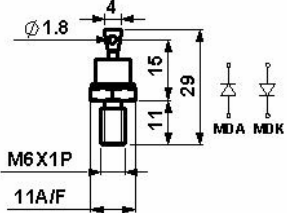
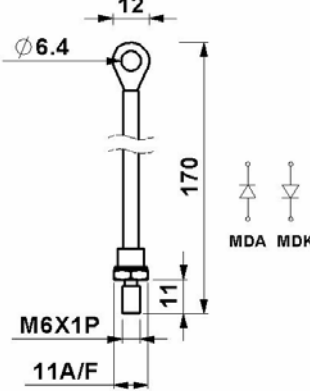
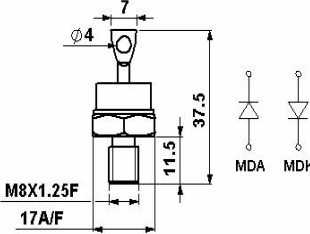
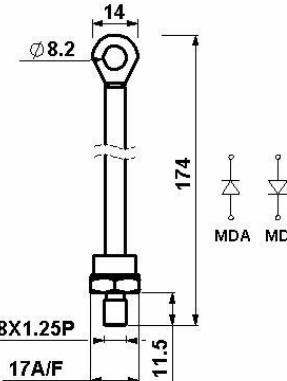
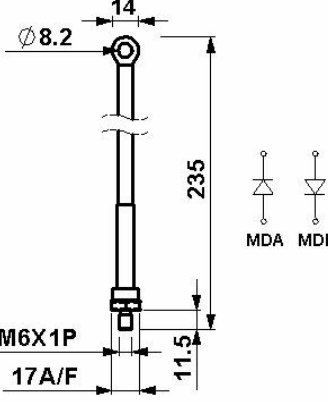
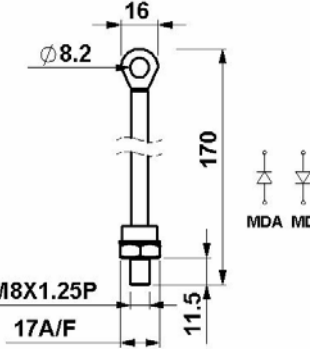
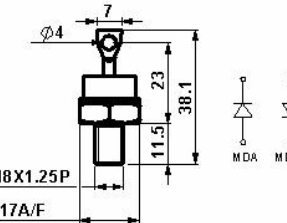
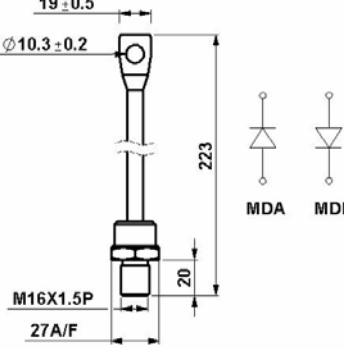
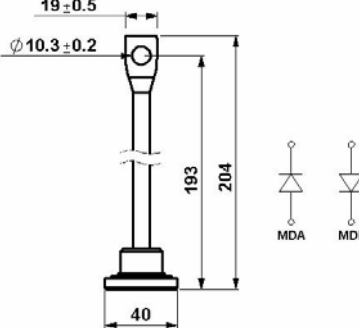


Dimensions in mm

Discretes-Diode

Type	V_{RRM} $V_{RSM} =$ $V_{RRM} + 100V$	I_{FAV} / T_C A/°C Sin 180	I_{FSM}/i^2t A/A ² t 10 ms, @25°C	$V_{(TO)}$ V @180°C	r_T mΩ @180°C	$R_{th(j-s)}$ °C/W	$T_{VJ(max)}$ °C	Case
MDA/K 16	400-1600	19/125	300/450	0.85	12	3.0	180	C1
MDA/K 20	400-1600	25/100	375/700	0.85	11	3.0	180	C2
MDA/K 25	400-1600	25/100	375/700	0.85	11	3.0	180	C1
MDA/K 26	400-1600	25/100	375/700	0.85	11	3.0	180	C2
MDA/K 37	400-1600	45/125	600/1800	0.85	5	1.1	180	C3
MDA/K 45	400-1600	45/125	700/2450	0.85	5	1.1	180	C4
MDA/K 47	400-1600	45/125	700/2450	0.85	5	1.1	180	C3
MDA/K 48	400-1600	45/125	700/2450	0.85	5	1.1	180	C5
MDA/K 50	400-1600	50/117	700/2450	0.85	5	1.1	180	C4
MDA/K 70/72	400-1600	70/125	1150/6610	0.85	3	0.75	180	C6/C7
MDA/K 85/87	400-1600	85/130	1250/7800	0.85	1.8	0.53	180	C6/C7
MDA/K 150	400-1600	150/135	3600/64800	0.85	0.6	0.3	180	C8
MDA/K 155	400-1600	150/135	3600/64800	0.85	0.6	0.3	180	C9
MDA/K 200	400-1600	230/125	5000/125000	0.85	0.6	0.23	180	C8
MDA/K 205	400-1600	230/125	5000/125000	0.85	0.6	0.23	180	C9
MDA/K 240	800-1600	250/120	6000/180000	0.85	0.6	0.23	180	C10
MDA/K 245	800-1600	250/120	6000/180000	0.85	0.6	0.23	180	C11
MDA/K 320	800-1600	325/120	9000/405000	0.80	0.45	0.175	180	C10
MDA/K 325	800-1600	325/120	9000/405000	0.80	0.45	0.175	180	C11
MDA/K 400	800-1600	400/115	9000/405000	0.90	0.5	0.12	160	C10
MDA/K 405	800-1600	400/115	9000/405000	0.90	0.5	0.12	160	C11
MD8A/K 155 Non-isolated module	400-1600	155/90	3600/64800	0.85	0.6	0.25	125	C12

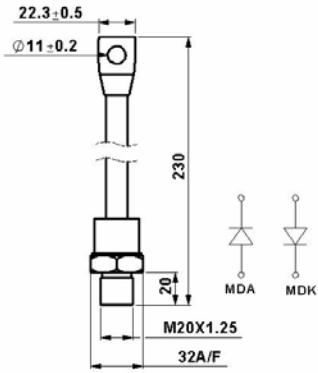
Discretes-Diode

C1	C2	C3
 <p>Technical drawing of diode C1. Dimensions: $\varnothing 1.8$, 4, 15, 11, 29. Mounting: M6X1P, 11A/F. Symbols: MDA, MDK.</p>	 <p>Technical drawing of diode C2. Dimensions: 12, $\varnothing 6.4$, 170, 11. Mounting: M6X1P, 11A/F. Symbols: MDA, MDK.</p>	 <p>Technical drawing of diode C3. Dimensions: 7, $\varnothing 4$, 37.5, 11.5. Mounting: M8X1.25F, 17A/F. Symbols: MDA, MDK.</p>
C4	C5	C6
 <p>Technical drawing of diode C4. Dimensions: $\varnothing 8.2$, 14, 174, 11.5. Mounting: M8X1.25P, 17A/F. Symbols: MDA, MDK.</p>	 <p>Technical drawing of diode C5. Dimensions: 14, $\varnothing 8.2$, 235, 11.5. Mounting: M6X1P, 17A/F. Symbols: MDA, MDK.</p>	 <p>Technical drawing of diode C6. Dimensions: 16, $\varnothing 8.2$, 170, 11.5. Mounting: M8X1.25P, 17A/F. Symbols: MDA, MDK.</p>
C7	C8	C9
 <p>Technical drawing of diode C7. Dimensions: 7, $\varnothing 4$, 23, 11.5, 38.1. Mounting: M8X1.25P, 17A/F. Symbols: MDA, MDK.</p>	 <p>Technical drawing of diode C8. Dimensions: 19 ± 0.5, $\varnothing 10.3 \pm 0.2$, 223, 20. Mounting: M16X1.5P, 27A/F. Symbols: MDA, MDK.</p>	 <p>Technical drawing of diode C9. Dimensions: 19 ± 0.5, $\varnothing 10.3 \pm 0.2$, 193, 204, 40. Symbols: MDA, MDK.</p>

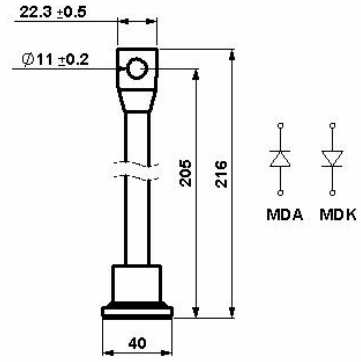
Dimensions in mm

Discretes-Diode

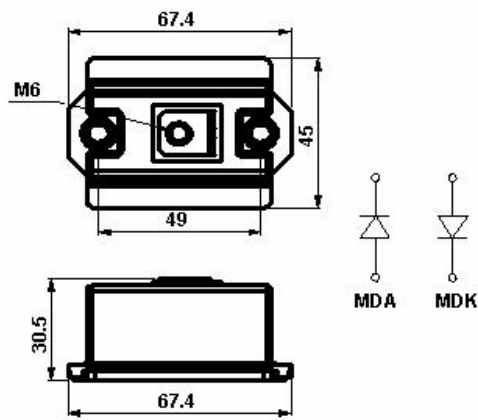
C10



C11



C12



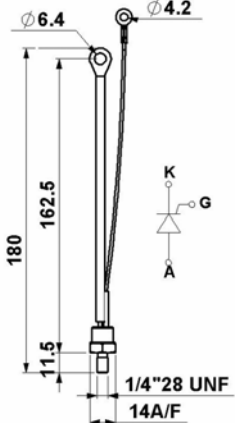
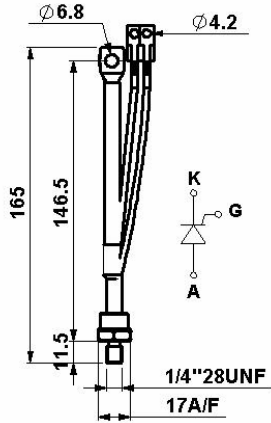
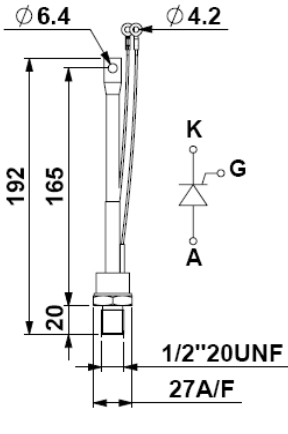
Dimensions in mm

Discretes-Thyristor

Type	V_{DRM}, V_{RRM} V $V_{DSM} = V_{RSM} =$ $V_{RRM} + 100V$	I_{TAV} / T_C A/°C Sin 180	$I_{TSM} / i^2 t$ A/A ² t 10 ms, @25°C	$V_{T(TO)}$ V @130°C	r_T mΩ @130°C	$R_{th(j-s)}^{1)}$ °C/W	Case
MDT 16	400-1600	25/80	370/685	1.0	20	1.4	C12
MDT 24	400-1600	31/80	450/1010	1.0	10	1.4	C12
MDT 40	400-1600	40/80	700/2450	1.0	9	0.86	C13
MDT 50	400-1600	50/80	1050/5510	1.1	5	0.8	C13
MDT 70	400-1600	68/80	1300/8450	0.9	4	0.55	C14
MDT 85	400-1600	87/80	1700/14450	1.2	4	0.36	C14
MDT 110	400-1600	109/80	2000/20000	1.0	2.4	0.36	C14

¹⁾ 180° electrical conduction angle, sine wave

Note: T_{Vj} (all module) = 130° C

C12	C13	C14
		
Dimensions in mm		

STACK with Diodes and Thyristors: SEMIPACK, isolated platforms

Features

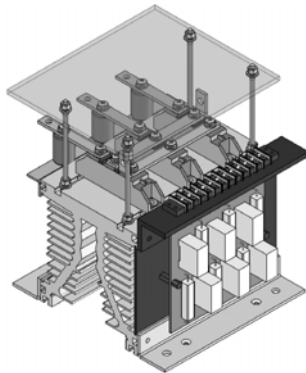
- Robust, reliable and reinforced mechanical structure
- Long-life fans
- Options: fuses, RC snubbers, current sensor, low voltage connector, Thermal switch

For industrial application

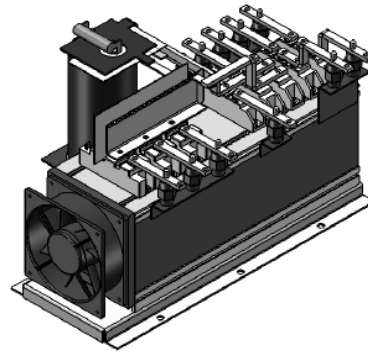
- Single/three phase rectifier
- DC motor controller
- Alternator excitation
- AC static switches
- AC motor soft starter

Platform	Topology	Current range A
MP3/250F	B2U, B6U, B2C, B6C, W1C, W3C	15 – 400
MP16/300F	B2U, B6U, B2C, B6C, W1C, W3C	200 – 700
MP16/400F (spec. realization)	12 pulse converter	500 – 1100

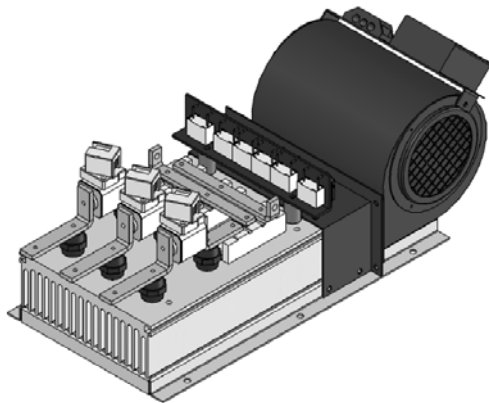
Stack platform using SEMIPACK



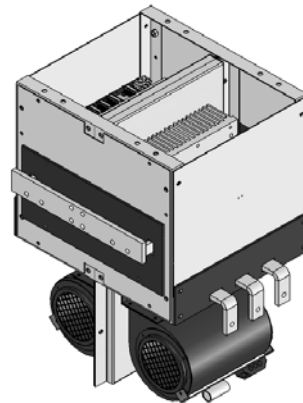
MP3 platform



MP3 specific realisation



MP16 platform



MP16 specific realisation (12 pulse converter)

STACK with Diodes and Thyristors capsule devices: non-isolated platforms

Features

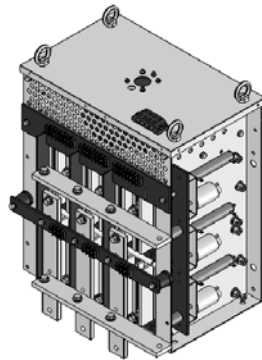
- Robust, reliable and reinforced mechanical structure
- Long-life fans
- Options: fuses, RC snubbers, current sensor, low voltage connector, Thermal switch

For industrial application

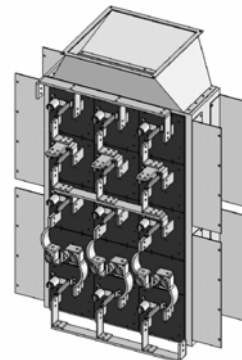
- High power rectifier (6 or 12 pulse)
- DC motor controller
- Alternator excitation
- AC static switches
- AC motor soft starter

Platform	Topology	Current range A
P17/130F	B2U, B6U, B2C, B6C, W1C, W3C	500 – 1200
MN2/200F	B2U, B6U, B2C, B6C, W1C, W3C	1000 – 2000
MN3/200F	B2U, B6U, B2C, B6C, W1C, W3C	1500 – 3000
N4/250F	B2U, B6U, B2C, B6C, W1C, W3C	2000 – 3000

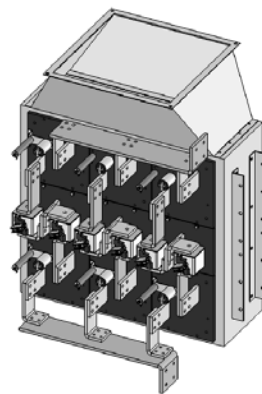
Stack platform using capsule devices



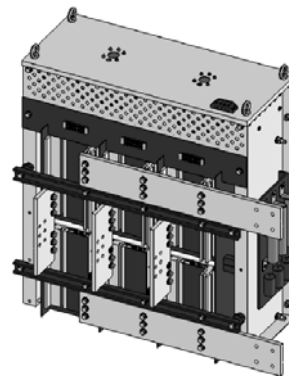
P17 platform



MN2 platform



MN3 platform



N4 platform

Power Electronics System - SEMISTACK

STACK with IGBT power modules: SEMITRANS, SEMITOP and SEMiX

Features

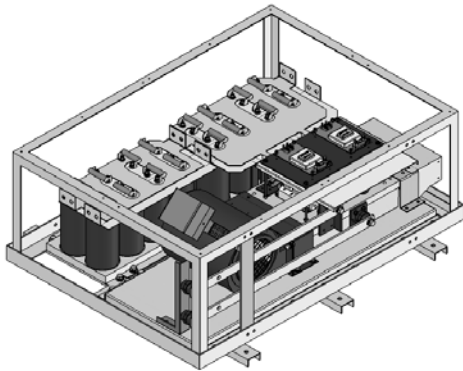
- Robust and reliable
- Long-life fans
- Options: fuses, snubbers, current sensor, low voltage connector
- Thermal switch
- All configuration are possible on request

For industrial application and transportation applications and custom designs

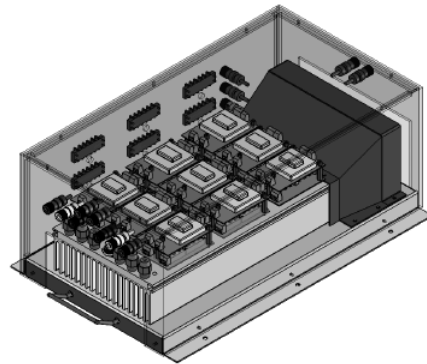
- Variable speed drive
- STATCOM
- Induction heating
- UPS
- Transport

Platform	Topology	Current range A
MP16 - SEMITRANS	B2CI, B2I, B6CI, B6I, B6CIB	50 – 1850
MP16 - SEMITOP	B2CI, B2I, B6CI, B6I	10 – 300
MP16 - SEMiX	B2I, B6I	50 – 200

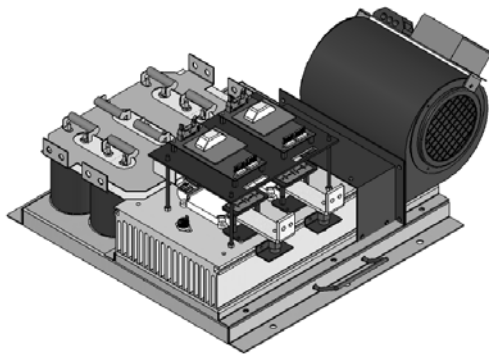
Stack platform using SEMITRANS, SEMiX and SEMITOP



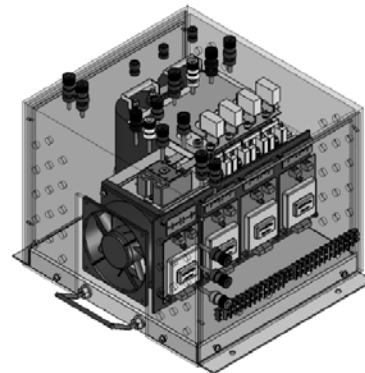
MP16 – SEMITRANS platform



MP16 – SEMITOP platform



MP16 – SEMiX platform



Teaching Kit: All platform/configuration on request

Power Electronics System - SEMISTACK

Natural, Water cooled and special type of stack assembly

Features

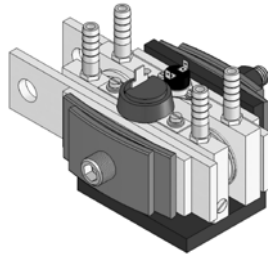
- Robust and reliable
- Options: fuses, snubbers, current sensor, low voltage connector
- Thermal switch
- All configuration are possible on request

For industrial application and transportation applications and custom designs

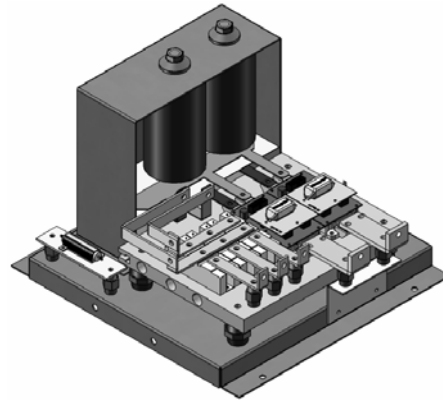
- Variable speed drive
- AC voltage controller
- Welding
- Wind generators
- Transport

Platform	Topology	Current range A
Natural cooling	B2U, B2C, B2HC, B6U, B6C, B6HC	200 – 700
Water cooling	W1C, W3C, B6CI	500 – 2000
Welding	B6U, B2I, B6CI, B6I, B6CIB	100 – 500

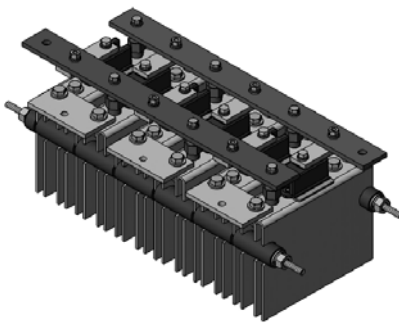
Stack platform



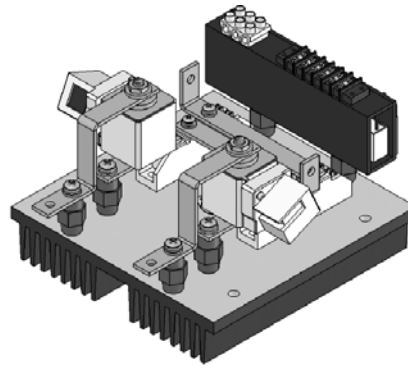
Water cooling platform (Welding)



Water cooling platform (Welding)

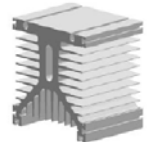
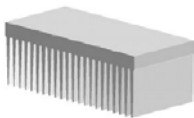
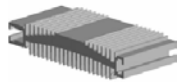
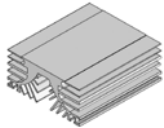
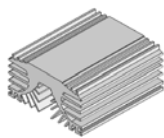
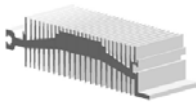


Welding platform



Natural cooling platform

Accessories - Heatsinks

Type	Suitable for	R_{thha} natural cooling K/W	R_{thha} Forced cooling K/W	W Kg/m	Circuit
MP3	Isolated base modules	0.54	0.168	17.6	
MP16	Isolated base modules	-	0.072	23.5	
P17	Capsules	0.45	0.12	10.6	
MN2	Capsules	-	0.055	-	
MN3	Capsules	-	0.035	-	
N4	Capsules	-	0.04	25.1	

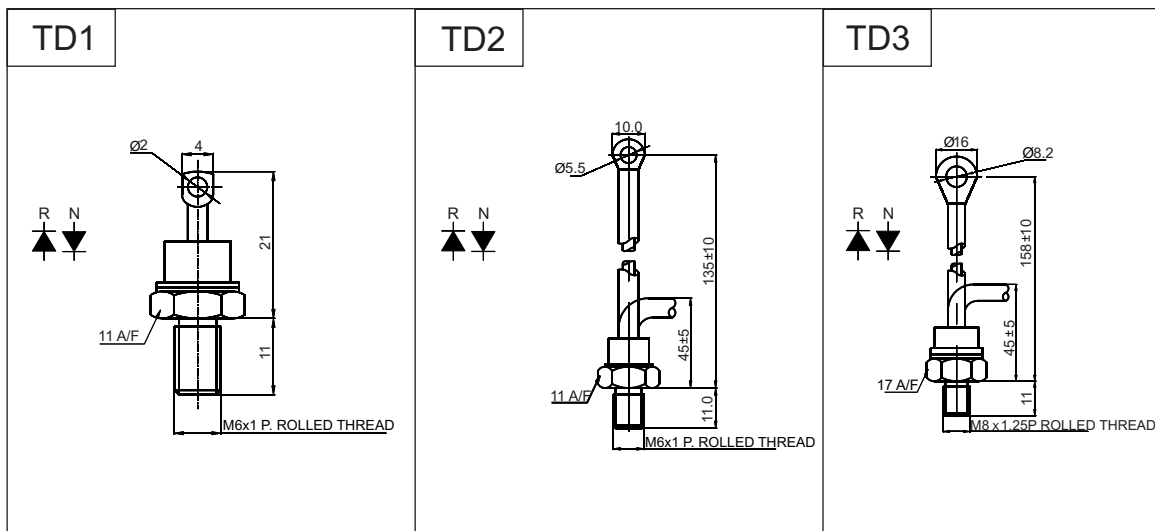
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Rectifier Diodes

Top Hat Type														
Type	V_{RRM} x100 V	$I_{f(av)} / T_c$		I_{rms}	I_{FSM} 10 mS	i^2t 10mS	V_{pk}/I_{pk} at T_{jmax}		V_o	r	R_{th} (j-c) (c-h)		T_{jmax}	Fig.No
	[V]	[A]	[°C]	[A]	[A]	[kA ² sec]	[V]	[A]	[V]	[mΩ]	[°C/W]	[°C]		
SXHN6	2 - 15	6	130	9.5	200	0.200	1.30	20	0.70	16.50	4.500	0.60	180	TD1
SXHN14		12	130	19	250	0.312	1.50	38	0.77	11.00	2.100	0.60		TD1
SXHN16		16	130	25	300	0.450	1.55	50	0.82	8.30	1.500	0.25		TD1
SXHN20		20	130	32	350	0.612	1.50	63	0.90	10.00	1.300	0.25		TD1
SXBN26		25	130	40	375	0.703	1.45	78	0.80	10.00	1.100	0.25		TD2
SXHN26		25	130		400	0.800	1.25	78	0.80	4.25	1.000	0.25		TD3
SXHN41		40	130	63	500	1.250	1.25	125	0.72	3.60	0.750	0.25		TD3
SXHN55		55	125	86	800	3.200	1.35	172	0.72	2.75	0.500	0.15		TD3
SXBR71		70	125	110	1000	5.000	1.35	220	0.77	2.00	0.400	0.15		TD3
SXHNS100		100	130	160	2400	28.800	1.30	300	0.80	1.22	0.360	0.05		TD4
SXHNS150		150	130	200	3600	64.800	1.25	470	0.75	0.90	0.240	0.05		TD4
SXHBN150		150	130	200	3600	64.800	1.25	470	0.75	0.90	0.240	0.05		TD5
SXHNS201		200	130	300	4000	80.000	1.30	630	0.70	0.60	0.240	0.05		TD4
SXHBN200		200	130	300	4000	80.000	1.30	630	0.70	0.60	0.240	0.05		TD5
SXHNS250		250	130	392	5000	125.000	1.30	785	0.75	0.56	0.180	0.05		TD7
SXHN250		250	130	392	5000	125.000	1.30	785	0.75	0.56	0.180	0.05		TD6
SXHN300		300	130	471	5200	1303.000	1.20	1000	0.72	0.40	0.160	0.05		TD6
SXHNS320		320	125	500	5500	151.000	1.40	1000	0.77	0.57	0.140	0.05		TD7
SXHN350		350	125	430	6000	180.000	1.15	1050	0.75	0.36	0.140	0.05	TD6	
SXHFN350		350	125	430	6000	180.000	1.15	1050	0.75	0.36	0.120	0.02	TD8	
SXHN400	400	125	628	7000	245.000	1.12	1500	0.75	0.35	0.120	0.05	TD6		
SXHFN400	400	125	628	7000	245.000	1.12	1500	0.75	0.35	0.110	0.02	TD8		
SXHN550	2 - 18	550	100	865	12500	781.000	1.65	1500	0.85	0.50	0.072	0.02	TD9	
SXHN680	2 - 30	680	90	1070	14000	980.000	1.55	2100	0.80	0.33	0.070	0.02	TD9	
SXHN860	2 - 20	860	100	1350	16000	1280.000	1.48	2500	0.74	0.20	0.070	0.20	180	TD9

* for further details refer individual datasheets @ www.hirect.com



Rectifier Diodes

Capsules												
Type	V_{RRM} x100 V	$I_{f(av)} / T_c$	I_{frms}	I_{FSM} 10 mS T_{jmax}	I^2t	V_{pk} / I_{pk} at T_{jmax}	V_o	r	R_{th} (j-c) (c-h)	T_{jmax}	Fig No	
	[V]	[A] [°C]	[A]	[A]	[kA ² sec]	[V] [A]	[V]	[mΩ]	[°C/W]	[°C]		
SHXC450	2 - 18	450 95	700	4900	120	1.52 1500	0.70	0.700	0.1120 0.015	170	CD1	
SHXC540		540 91	850	6000	180	1.85 1600	0.75	0.650	0.0900 0.015		CD1	
SHXC760	2 - 6	760 104	1200	8500	361	1.39 2000	0.70	0.300	0.0790 0.015	180	CD1	
SHXC1130	2 - 18	1130 65	1775	11000	605	1.83 3000	0.78	0.350	0.0450 0.015	160	CD2	
SHXC1850		1850 63	2900	20500	2100	1.44 3000	0.74	0.200	0.0380 0.005		CD3	
SHXC2230	2 - 6	2230 109	3500	25000	3125	1.10 3000	0.70	0.100	0.0255 0.005	180	CD3	
SHXXC2300	2 - 44	2300 71	3600	26000	3380	1.70 3000	0.88	0.245	0.0170 0.005	160	CD4	
SHXXC2500	2 - 26	2500 90	3925	26000	3380	1.30 3000	0.87	0.127	0.0220 0.004	150	CD5	
SHXXC6400	2 - 6	6400 85	10048	55000	15125	0.88 4500	0.70	0.040	0.0170 0.005	190	CD6	

Fast Recovery Diode												
Type	V_{RRM} x100	$I_{f(av)} / T_c$	I_{frms}	I_{FSM} 10 mS T_{jmax}	I^2t	V_{pk} / I_{pk} at T_{jmax}	V_o	r	R_{th} (j-c) (c-h)	T_{jmax}	Fig No	
	[V]	[A] [°C]	[A]	[A]	[kA ² sec]	[V] [A]	[V]	[mΩ]	[°C/W]	[°C]		
HD368SXX	2 - 14	368 100	730	5200	135.20	2.25 1400	1.00	0.80	0.08 0.015	150	CD1	

* for further details refer individual datasheets @ www.hirect.com



Diode Modules

Diode- Diode Modules - Isolated base													
Type	$V_{RRM} \times 100$	$I_{f(av)}/T_c$	I_{frms}	$I_{frms}^{10ms} @ T_{jmax}$	I^2t	Vpk / Ipk at 25°C		V_o	r	$R_{th(J-C)} / \text{chip}$	$R_{th(C-H)} / \text{module}$	T_{jmax}	Fig No
	[V]	[A] [°C]	[A]	[kA]	[kA ² sec]	[V] [A]	[V]	[mΩ]	[°C/W]	[°C/W]	[°C]		
HDD25N	2 - 18	25 100	40	0.50	1.25	1.40 80	0.85	6.00	1.00	0.10	150	DD1	
HDD56N		55 100	85	1.15	9.80	1.40 175	0.85	4.00	0.50	0.10		DD1	
HDD95N		95 100	150	2.10	21.00	1.45 300	0.91	1.86	0.39	0.10		DD1	
HDD100N		100 100	165	2.50	31.25	1.30 325	0.80	1.50	0.39	0.10		DD1	
HDD170N		170 100	270	5.60	157.00	1.25 535	0.77	0.80	0.26	0.03		DD2	
HDD250N		250 100	395	8.30	344.00	1.40 785	0.70	0.68	0.17	0.02		DD3	
HDD350N		350 100	550	11.00	605.00	1.45 1100	0.75	0.40	0.13	0.02		DD3	

Single Phase bridges (Isolated base)												
Type	$V_{RRM} \times 100$	I_{DC}/T_c	$I_{frms}^{10ms} @ T_{jmax}$	I^2t	Vpk / Ipk at 25°C		V_o	r	$R_{th(J-C)} / \text{Diode}$	$R_{th(C-H)} / \text{bridge}$	T_{jmax}	Fig No
	[V]	[A] [°C]	[A]	[kA ² sec]	[V] [A]	[V]	[mΩ]	[°C/W]	[°C/W]	[°C]		
MB35	2 - 12	30 67	550	1.25	1.30 50	0.8	8	5.40	1.350	150	DB1	
HB62		50 85		9.80	1.50 75		8	1.93	0.310		DB3	
HB82		80 85		2.80	1.50 125		6	1.60	0.483		DB3	

Three phase bridge (Isolated base)												
Type	$V_{RRM} \times 100$	I_{DC}/T_c	$I_{frms}^{10ms} @ T_{jmax}$	I^2t	Vpk / Ipk at 25°C		V_o	r	$R_{th(J-C)} / \text{Diode}$	$R_{th(C-H)} / \text{bridge}$	T_{jmax}	Fig No
	[V]	[A] [°C]	[A]	[kA ² sec]	[V] [A]	[V]	[mΩ]	[°C/W]	[°C/W]	[°C]		
HD35	2 - 12	35 62	550	1.50	1.7	0.8	7.5	8.40	1.400	150	DB2	
HD62		63 100	550	1.52	1.50 75		8.0	1.87	0.310	150	DB3	
HD82		82 100	750	2.18	1.30 75		5.0	1.52	0.253	150	DB3	
HD162		160 100	1800	16.20	1.55 185		3.0	0.83	0.140	150	DB4	

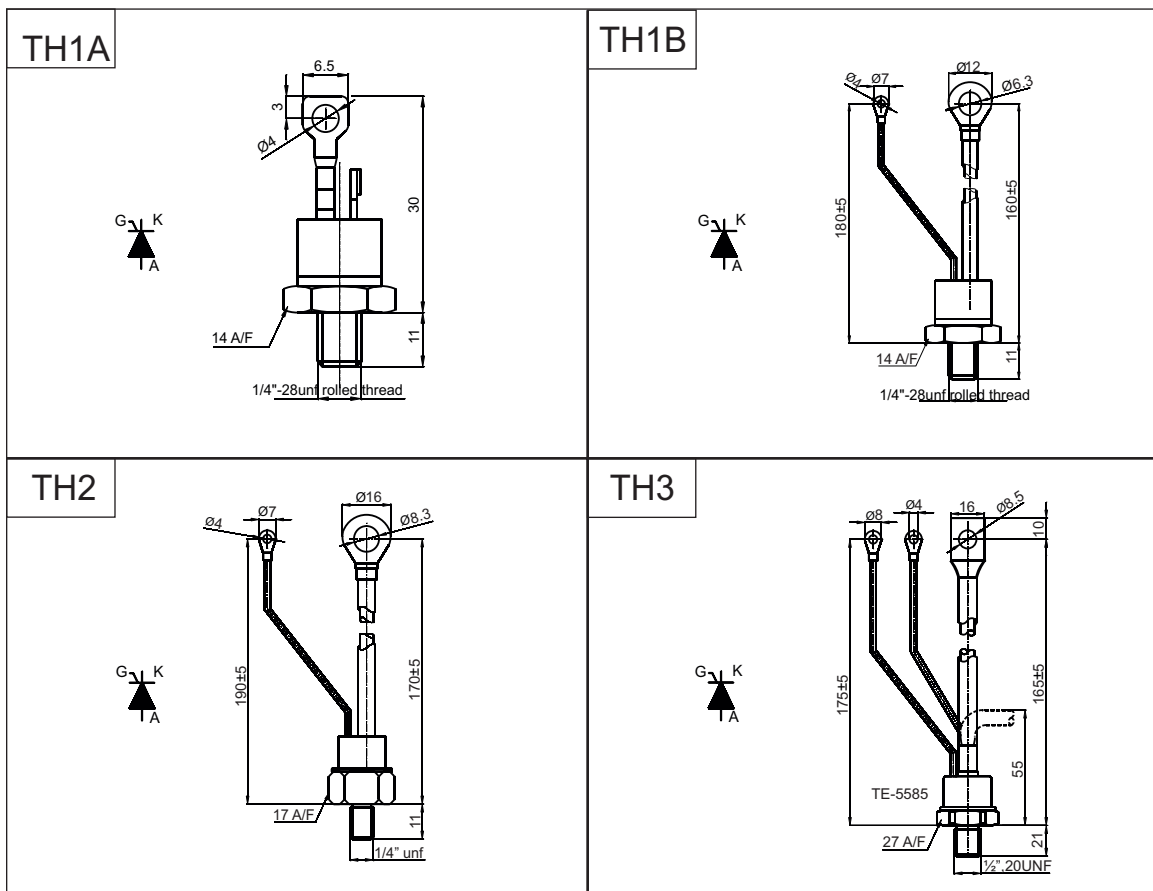
* for further details refer individual datasheets @ www.hirect.com



Phase Control Thyristors

Top Hat Type													
Type	$V_{DRM} / V_{RRM} \times 100$	$I_{T(av)} / T_c$	I_{rms}	V_{pk} / I_{pk} at T_{jmax}		i^2t	$I_{ism} / 10m T_{jmax}$	V_o	r	R_{th} (j-c) (c-h)		T_{jmax}	Fig No
	[V]	[A] [°C]	[A]	[V] [A]	[kA ² sec]	[kA]	[V]	[mΩ]	[°C/W]	[°C]			
H16TL/TB	2 - 15	16 85	25	2.05 53	0.61	0.35	1.10	16.00	1.400	0.300	125	TH1-A/B	
H30TL/TB		30 85	50	1.72 100	1.25	0.50	0.95	6.40	0.930	0.300		TH1-A/B	
H45TB		45 85	70	1.72 150	3.20	0.80	0.95	4.50	0.600	0.200		TH2	
H55TB	2 - 16	55 75	85	1.82 175	4.05	0.90	0.90	4.35				TH2	
H65TB	2 - 15	65 75	100	1.87 200	5.00	1.00	0.87	4.10	0.500	0.200		TH2	
H85TB	2 - 16	85 85	135	1.75 265	13.60	1.65	1.20	2.60	0.270	0.080		TH3	
H125TB		125 70	195	2.00 400	31.00	2.50	1.20	1.90	0.245	0.080		TH4	
H150TB		150 70	235	1.80 470	45.00	3.00	0.90	1.80	0.234	0.080		TH5	
H175TB	2 - 16	175 85	275	1.76 550	106.00	4.60	1.08	1.30	0.135	0.040		TH6	
H250TB	2 - 18	250 78	392	1.75 785	106.00	4.60	0.92	0.99	0.120	0.040		TH6	
H285TB	2 - 60	285 82	450	1.70 1000	211.00	6.50	0.80	0.75	0.113	0.050		TH6	
H300TB	2 - 16	300 85	470	1.65 1000	281.00	7.50	1.04	0.61	0.080	0.020		TH7	
H350TB		350 85	550	1.65 1100	320.00	8.00	0.80	0.50			TH7		
H400TB		400 85	628	1.45 1260	500.00	10.00	0.90	0.40	0.076	0.015	TH8		
H500TB		500 75	785	1.60 1570	720.00	12.00	0.90	0.35			TH8		
H650TB	2 - 60	650 70	1020	1.35 2000	980.00	14.00	1.00	0.12	0.070	0.015	TH9		

* for further details refer individual datasheets @ www.hirect.com



Phase Control Thyristors

Capsules													
Type	V_{DRM}/V_{RRM}	$I_{T(av)}/T_c$	I_{trms}	V_{pk}/I_{pk} at T_{jmax}		I^2t	I_{Tsm}^{10ms}/T_{jmax}	V_o	r	R_{th} (j-c) (c-h)		T_{jmax}	Fig No
	[V]	[A] [°C]	[A]	[V] [A]	[kA ² sec]	[kA]	[V]	[mΩ]	[°C/W]		[°C]		
H445CH	2 - 16	445 69	700	2.07 1200	106	4.60	0.85	0.900	0.0680	0.015	125	CH1	
H507CH	2 - 14	507 85		1.92 1600	320	8.00	0.80	0.600	0.0530	0.015		CH2	
H955CH	2 - 16	955 64	1500	2.00 3000	781	12.50	0.85	0.350	0.0380	0.005		CH3	
H1450CH	2 - 28	1450 82	2280		4500	30.00	0.97	0.270	0.0150	0.005		CH4	
H1500CH	2 - 18	1500 63	2355	1.55 3000	2420	22.00	0.84	0.195	0.0265	0.005		CH4	
H1590CH	2 - 60	1590 65	2500	1.37 3000	2000	20.00	1.00	0.100	0.0330	0.005	140	CH3	
H1800CH	2 - 20	1800 54	2830	1.68 3000	2880	24.00	1.05	0.185	0.0210	0.005	125	CH4	
H2000CH	2 - 18	2000 73	3140	1.45 3000	6480	36.00	0.82	0.180	0.0150	0.005		CH4	
H2900CH	2 - 25	2900 78	4550	1.42 3000	7683	39.20	0.85	0.175	0.0090	0.002		CH5	
H3200CH	2 - 20	3200 68	5000	1.30 3000	12701	50.40	0.95	0.127	0.0090	0.002		CH5	
H4350CH	2 - 14	4350 85	6829	1.18 4000	18000	60.00	0.88	0.075	0.0095	0.002		CH6	

* for further details refer individual datasheets @ www.hirect.com



Thyristors Modules

Modules (Isolated Base)														
Type	V_{DRM}/V_{RRM} ×100	$I_{T(av)}/T_c$		I_{trms}	V_{pk}/I_{pk} at T_{jmax}		I^2t	I_{Tsm} 10m @ T_{jmax}	V_o	r	$R_{th(J-C)}$ /chip	$R_{th(C-H)}$ /module	T_{jmax}	Fig No
	[V]	[A]	[°C]	[A]	[V]	[A]	[kA ² sec]	[kA]	[V]	[mΩ]	[°C/W]	[°C/W]	[°C]	
HTT/HTD25N	2 - 18	25	85	40	1.80	80	1.06	0.46	1.00	11.00	0.92	0.10	125	TT1
HTT/HTD40N		40	85	65	1.80	125	2.45	0.70	0.88	5.80	0.69	0.10		TT1
HTT/HTD55N		55	85	85	1.60	175	7.81	1.25	0.90	3.50	0.55	0.10		TT1
HTT/HTD76N		75	85	120	1.60	235	10.51	1.45	0.82	2.60	0.39	0.10		TT1
HTT/HTD90N		90	85	140	1.60	300	14.45	1.70	0.84	2.10	0.38	0.10	130	TT1
HTT/HTD116N		116	85	180	1.75	300	24.00	2.20	0.80	2.40	0.22	0.10	125	TT1
HTT/HTD132N		130	85	205	1.50	410	51.20	3.20	0.85	1.50	0.23	0.03		TT2
HTT/HTD162N		162	85	255	1.50	500	96.80	4.40	0.85	0.95	0.20	0.03		TT2
HTT/HTD170N		170	85	265	1.54	550	106.00	4.60	0.95	1.00	0.17	0.02		TT3
HTT/HTD250N		250	85	395	1.55	800	245.00	7.00	0.80	0.70	0.13	0.02		TT3

3 Thyristor Modules (Non-Isolated Base)														
Type	V_{DRM}/V_{RRM} ×100	$I_{T(av)}/T_c$		I_{trms}	V_{pk}/I_{pk} at 25°C		I^2t	I_{Tsm} 10mS T_{jmax}	I_{GT}	V_{GT}	$R_{th(J-C)}$ /chip	$R_{th(C-H)}$ /module	T_{jmax}	Fig No
	[V]	[A]	[°C]	[A]	[V]	[A]	[kA ² sec]	[kA]	[mA]	[V]	[°C/W]	[°C/W]	[°C]	
H3T80N	2 - 4	80	116	125	1.20	240	26	2.28	150	2.00	0.35	0.03		TT4
H3T130N		130	112	204	1.20	410	51	3.20			0.20	0.03		TT4
H3T200N		200	121	314	1.20	630	145	5.40			0.12	0.03		TT5

Single Phase Half Controlled Bridge														
Type	V_{DRM}/V_{RRM} ×100	$I_{T(av)}/T_c$		I_{trms}	V_{pk}/I_{pk} at T_{jmax}		I^2t	I_{Tsm} 10mS T_{jmax}	V_o	r	$R_{th(J-C)}$ /chip	$R_{th(C-H)}$ /module	T_{jmax}	Fig No
	[V]	[A]	[°C]	[A]	[V]	[A]	[kA ² sec]	[kA]	[V]	[mΩ]	[°C/W]	[°C/W]	[°C]	
HCH40	8 - 12	40	85	28	1.45	45	0.5	320	0.85	13.00	1.15	0.20	125	TT6

High Voltage modules (Isolated Base)														
Type	V_{DRM}/V_{RRM} ×100	$I_{T(av)}/T_c$		I_{trms}	V_{pk}/I_{pk} at 25°C		I^2t at 45°C.	I_{Tsm} 10mS T_{jmax}	V_o	r	$R_{th(J-C)}$ /chip	$R_{th(C-H)}$ /module	T_{jmax}	Fig No
	[V]	[A]	[°C]	[A]	[V]	[A]	[kA ² sec]	[kA]	[A]	[mΩ]	[°C/W]	[°C/W]	[°C]	
HTT70N	2 - 24	70	85	110	1.65	320	13.50	1.60	0.85	3.20	0.300	0.10	125	TT1
HTT100N	2 - 22	100	85	157	1.74	300	14.45	1.70	0.85	3.20	0.220	0.03		TT1
HTT165N		165	85	259	1.36	300	180.00	6.00	0.80	1.60	0.155	0.03		TT2

* Pressure contact devices available on request

* for further details refer individual datasheets @ www.hirect.com

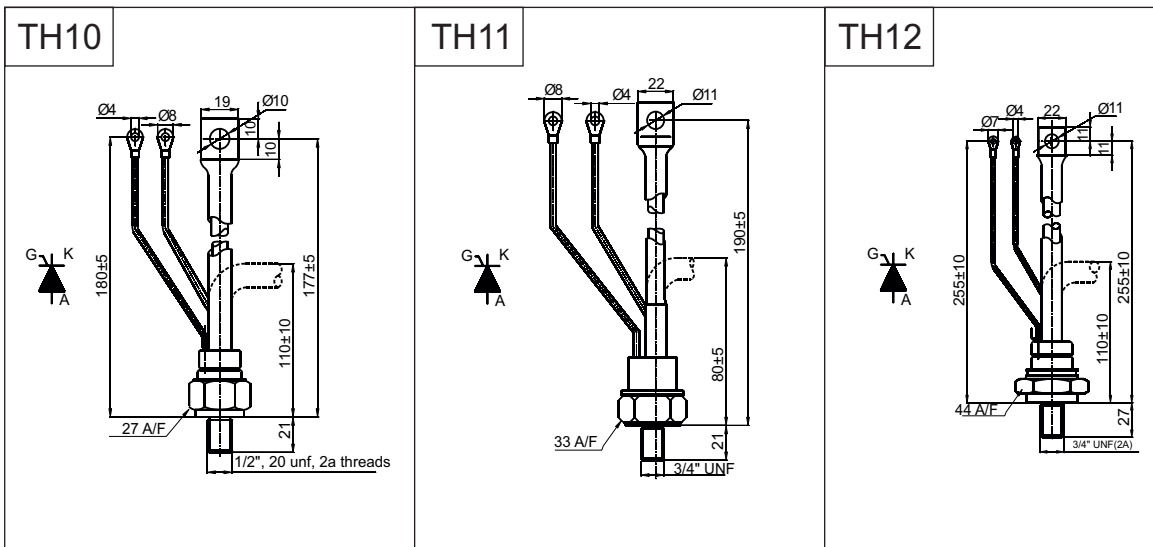
Fast Turn-off Thyristors

Top Hat Type										
Type	$V_{DRM} / V_{RRM} \times 100$	$I_{T(av)} / T_c$	I_{Tsm} / T_{jmax}	I^2t	V_{pk} / I_{pk} at T_{jmax}	I_{GT} / V_{GT} $T_j = 125^\circ C.$	T_q	Reapplied dv/dt	T_{jmax}	Fig No
	[V]	[A] [°C]	[kA]	[kA ² sec]	[V] [A]	[mA] [V]	[µSec]	[V/MSec]	[°C]	
HF80TB	2 - 12	80 85	2.45	30	2.40 400	150 / 2.5	20-25	D,F,H	125	TH10
HF120TB		120 85	2.90	42	2.20 500			D,F		TH11
HF196TB		195 85	6.00	180	2.05 800			250 / 2.5		D,F

Capsules (Center gate type)										
Type	$V_{DRM} / V_{RRM} \times 100$	$I_{T(av)} / T_c$	I_{Tsm} / T_{jmax}	I^2t	V_{pk} / I_{pk} at T_{jmax}	I_{GT} / V_{GT} $T_j = 125^\circ C.$	T_q	Reapplied dv/dt	T_{jmax}	Fig No
	[V]	[A] [°C]	[kA]	[kA ² sec]	[V] [A]	[mA] [V]	[µSec]	[V/MSec]	[°C]	
HF188CH	2 - 12	188 85	2.90	42	2.2 800	250 / 2.5	20-25	D,F	125	FH1
HF408CH		408 85	6.40	205	2.3 1400					250 / 2.5

Capsules (Distributed gate type)										
Type	$V_{DRM} / V_{RRM} \times 100$	$I_{T(av)} / T_c$	I_{Tsm} / T_{jmax}	I^2t	V_{pk} / I_{pk} at T_{jmax}	I_{GT} / V_{GT} $T_j = 125^\circ C.$	T_q	Reapplied dv/dt	T_{jmax}	Fig No
	[V]	[A] [°C]	[kA]	[kA ² sec]	[V] [A]	[mA] [V]	[µSec]	[V/MSec]	[°C]	
HS800CH	15	800 55	10.00	500	2.30 1600	250 / 3.0	20-25	500	125	FH3
HS1250CH	16-20	1250 55	14.00	980	2.00 2000	300 / 3.0	40-55	500		FH4
HS2550CH		2500 55	37.20	6920	2.15 4000		60-80	1000		FH5

* for further details refer individual datasheets @ www.hirect.com



Power Stacks

Thyristor Stack (B6C)										
Sr No	Device type	I/P Voltage	Class - I 100% cont.	Class - II 150% for 1 minute	Class - IV 125% for 2 hrs 200% for 10 secs	Class - V 150% for 2 hrs 200% for 1 Min	Class - VI 150% for 2 Hrs 300% for 1 Mn	Arm Fuse (For Class II)	Fuse Rating	Recommended Panel size in mm (w x d x h)
								Fuse Type		
1	H445CH16	450V	800A	560A	440A	410A	280A	170M3269	400A/690V	800 x 800 x 2200
2	H505CH16	450V	860A	600A	475A	450A	340A	170M3270	450A/690V	800 x 800 x 2200
3	H509CH18	500V	1010A	710A	575A	525A	360A	170M3271	500A/690V	800 x 800 x 2200
4	H955CH16	450V	1375A	975A	800A	725A	500A	170M4267	700A/690V	800 x 800 x 2200
5	H1800CH18	500V	1675A	1225A	1025A	900A	640A	170M5265	900A/690V	800 x 800 x 2200
6	H2000CH18	500V	2090A	1540A	1325A	1125A	800A	170M5267	1100A/690V	800 x 800 x 2200
7	H1800CH18	500V	2350A	1740A	1360A	1275A	910A	170M5268	1250A/690V	1000 x 800 x 2200
8	H2000CH18	500V	2990A	2225A	1770A	1625A	1175A	170M6269	1600A/690V	1000 x 800 x 2200
9	H3200CH20	550V	3675A	2850A	2325A	2050A	1525A	170M7082	2000A/690V	1000 x 800 x 2200
10	H2900CH25	700V	3550A	2375A	2225A	1975A	1475A	2X170M6247	2X900A/1250V	1000 x 800 x 2200
11	H1450CH28	750V	1740A	1275A	1100A	925A	670A	170M6247	900A/1250V	800 x 800 x 2200
12	H1450CH28	750V	2475A	1850A	1470A	1350A	975A	170M6251	1400A/1100V	1000 x 800 x 2200
13	H1663CH36	1000V	2350A	1450A	1400A	1275A	925A	170M6723	1000A/1500V	1000 x 800 x 2200

Diode Stack (B6U)							
Sr No	Device type	I/P Voltage	Class - I 100% cont.	Class - II 150% for 1 minute	Arm Fuse (For Class II)	Fuse Rating	Recommended Panel size in mm (w x d x h)
					Fuse Type		
1	SH16C540	415Vac	1200A	800A	170M3272	550A/690V	800 X 800 X 2200
2	SH18C1130	415Vac	1800A	1200A	170M5265	900A/690V	800 X 800 X 2200
3	SH18C1850	415Vac	2500A	1800A	170M5268	1250A/690V	800 X 800 X 2200
4	SH18C2500	660Vac	3000A	2000A	170M6251	1400A/1100V	800 X 800 X 2200

NOTE: - Current Ratings are valid for Forced cooling of 5 m/sec air outlet and ambient temp of 45°C



Special Products

High Voltage Disks

Type	Voltage [V]	Current [A]	Fig No
HVD19K/0.65	19K	0.65 A	SP1

Water cooled Assemblies

Thyristors	V_{DRM} / V_{DRM}	I_{RMS} / T_{WATER}	I_{TSM}	Weight	Fig No
	[V]	[A / °C]	Sine wave 10 ms [kA]	[g]	
2 X H505	1600	625 / 40	5.6	2540	W1
2 X H604	1600	880 / 40	6.5	2600	
2 X H955	1600	1120 / 40	12.5	3000	W3
2 X H1500	1600	1500 / 40	24.6	8500	
2 X H2000	1600	1810 / 40	36.0	8500	

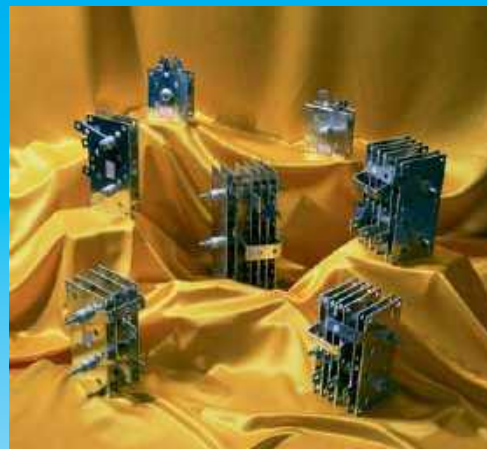
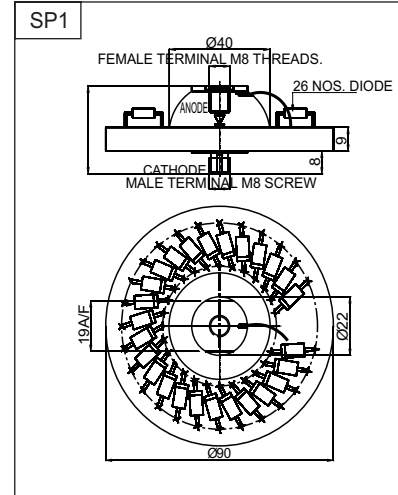
Water Flow Rate - 4.5L /min
Max Water Pressure - 10 Bar

NOTE: - dv/dt - 1000V/μSec available on request

3 Phase Press Fit Diode Stack For Welding Application

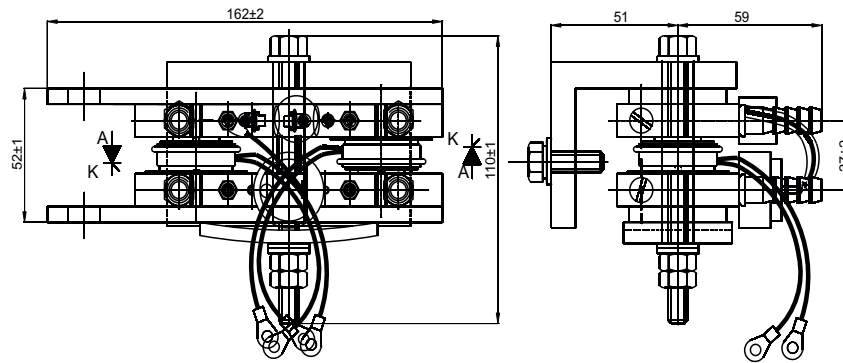
Type	I_n	V_{OUT}	E_d	Air Speed	V_{RRM}
	[A]	[V]	[%]	[M/s]	[V]
PTS 240	240	100	60	4	400
PTS 400	400	100	60	4	400
PTS 600	600	100	60	4	400

Current rating other than the above are available on request

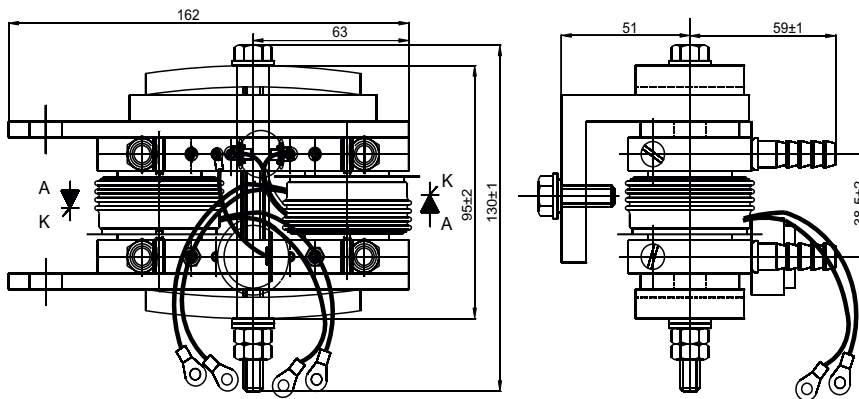


Special Products

W1



W2



W3

IGBT Sacks



HIRECT now offer reliable and highest quality IGBT based SAFESTacks and assemblies with best thermal management. This will help optimize system costs and shorten the time to manufacture final equipment.

SAFE Stack is a complete switch assembly for power electronic circuits. It contains all components necessary for current, voltage and temperature feedback. The 62mm Infineon make IGBT modules are used along with the superior and most reliable Eice Driver, which provides quality and reliability to SAFESTacks.

HIRECT CAN NOW CONTRIBUTE TO YOUR SUCCESS BY



1. Shortening production time due to ready to use power section.
2. Reduce system cost.
3. Modular designs offer flexible systems for power solutions
4. Suitable for industrial standard design cabinets.
5. Optimised thermal designs.
6. Can be readily paralleled for easy expansions.
7. Low inductance IGBT Stack designs.
8. Various power electronic designs can be offered.

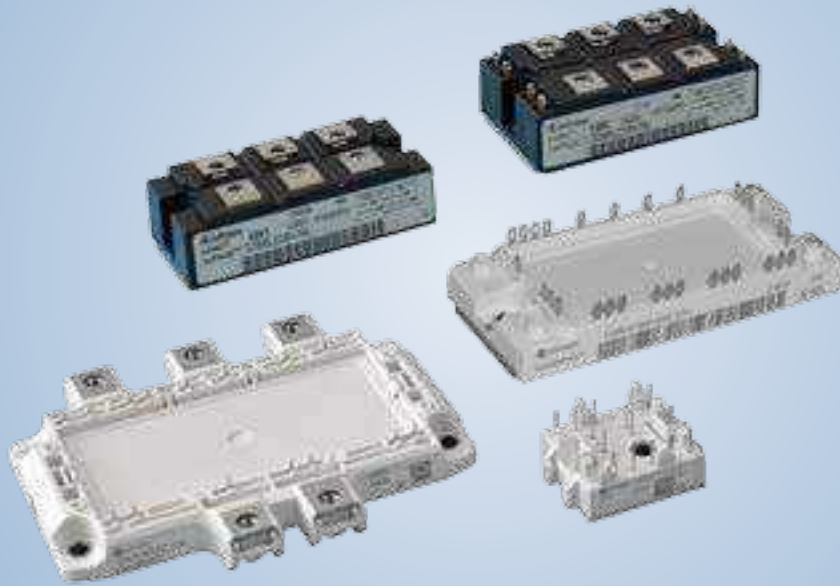
USEFUL IN APPLICATIONS



1. Drives and Elevators
2. Renewable Energy and Distributed Power Generation Systems
3. Un-interrupted Power Supplies (UPS)
4. Traction Drives
5. Medical Equipments
6. Energy Treatment and HVDC conversion
7. Electrolysis and Electroplating
8. Pulsed Power

AVAILABLE IN RATINGS 1000AMPS TO 1600AMPS AND WITH IGBTs OF 600, 1200 AND 1700 VOLTS.

By this technology tie-up, world class technology product is now locally available for manufacturers of heavy duty drives, distributed power generators & industrial application in the form of HIRECT make SAFESTacks & assemblies.


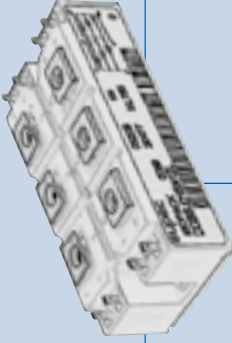
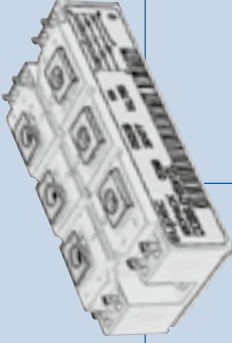
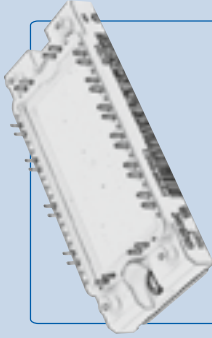
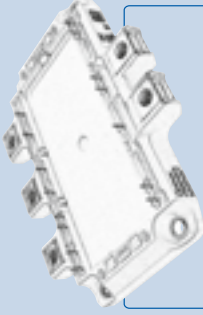


Bridge Rectifier & AC-Switches

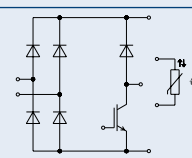
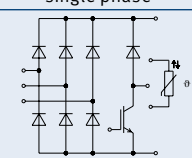
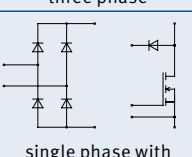
We offer bridge rectifier modules in solder pin design like EasyBRIDGE or eupec™ EconoBRIDGE™ modules. The available configurations are fully- and half-controlled rectifiers with brake IGBT and optional NTC resistor. They cover the current range from 25 A up to 180 A at 800 V, 1600 V and 1800 V.

The IsoPACK™ family with screwable load terminals are fully-, half- and uncontrolled rectifier modules. The three phase AC Switches complete the IsoPACK™ product family. The current range covers 85 A up to 205 A at 1600 V.

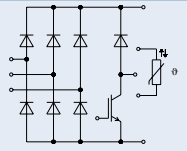
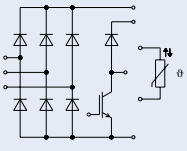
Overview Bridge Rectifier, AC-Switches

2000		EasyBRIDGE	$I_d = 25 - 75A$	Configuration B2U B6U
1800		eupec™ IsoPACK™ Bridge	$I_d = 85 - 205A$	Configuration B6 U/HK/C
1600		eupec™ IsoPACK™ AC-Switch	$I_{RMS} = 85 - 145A$	Configuration W3C
		eupec™ EconoBRIDGE™ 2	$I_d = 84 - 180A$	Configuration B6U B6HK
		eupec™ EconoBRIDGE™ 4	$I_d = 240 - 360 A$	Configuration B6HK
V_{RRM}				

EasyBRIDGE

800 V _{CEs}										
Type	V _{RRM} V	I _d A	Diode R _{thJC} K/W max.	V _{to} V T _{vj} = 150°C	r _t mΩ	Brake Chopper			Outline/ page	
						V _{CE} V	I _C * A T _C = 80°C	R _{thJC} K/W max.		
 <p>single phase</p>	DDB2U30N08VR	800	48	1,30	0,75	6,95	600	20	1,50	L_750d/6.7
 <p>three phase</p>	DDB6U30N08VR	800	30	1,80	0,85	8,30	600	20	1,50	L_750e/6.7
 <p>single phase with MOSFET chopper</p>	DDB2U50N08W1R_B23	800	50	1,20			600	50	0,25	data on request

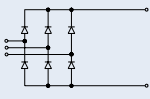
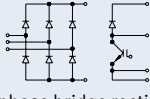
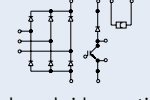
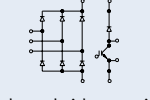
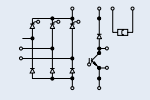
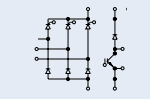
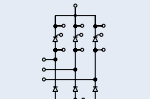
EasyBRIDGE

1600 V _{CEs}										
Type	V _{RRM} V	I _d A	Diode			Brake Chopper			Outline/ page	
			R _{thjC} K/W max.	V _{to} V T _{vj} = 150°C	r _t mΩ	V _{CE} V	I _C * A T _C = 80°C	R _{thjC} K/W max.		
 <p>three phase</p>	DDB6U25N16VR	1600	30	1,55	0,76	7,60	1200	15	1,45	L_750e/6.7
 <p>three phase</p>	DDB6U75N16W1R	1600	75	0,72			1200	50	0,45	L_1ba/6.7
	DDB6U75N16W1R_B11	1600	75	0,72			1200	50	0,45	L_1ba/6.7

* as specified in data sheet

..._B11 PressFIT Modules

eupec™ EconoBRIDGE™

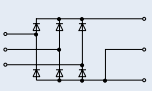
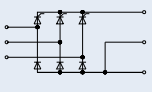
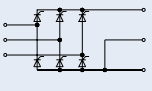
Type	V_{DRM}, V_{RRM} V $V_{DSM} = V_{DRM}$ $V_{RSM} =$ $V_{RRM} + 100V$	I_{RMSM} A	I_{FSM} (I_{TSM}) A 10 ms $T_{vj\ max}$	I_d/T_c A/°C	$V_{(TO)}$ V $T_{vj} =$ $T_{vj\ max}$	r_T mΩ $T_{vj} =$ $T_{vj\ max}$	R_{thJC} °C/W per arm 120° el Square wave	$T_{vj\ max}$ °C	V_{CES} V	I_C A	Outline/ page	
 3 phase bridge rectifier, uncontrolled	DDB6U100N16R	1600	100	550	100/100	0,75	5,5	1,15	150		M_EB2a/6.8	
	DDB6U144N16R	1600	144	1000	145/100	0,75	3,1	0,89	150		M_EB2a/6.8	
 3 phase bridge rectifier, uncontrolled with brake chopper	DDB6U84N16RR	1600	84	550	85/100	0,75	5,50	1,45	150	1200	50	M_EB2b/6.8
	DDB6U100N16RR	1600	100	550	100/100	0,75	5,50	1,15	150	1200	50	M_EB2b/6.8
 3 phase bridge rectifier, uncontrolled with brake chopper and NTC	DDB6U104N16RR	1600	104	550	105/100	0,75	5,50	1,08	150	1200	50	M_EB2c/6.8
	DDB6U104N18RR	1800	144	550	105/100	0,75	5,50	1,08	150	1200	50	M_EB2c/6.8
	DDB6U134N16RR	1600	134	550	134/100	0,75	6,30	0,70	150	1200	70	M_EB2c/6.8
 3 phase bridge rectifier, uncontrolled with brake chopper	◆ DDB6U180N16RR	1600	180	1400	180/80	0,83	2,30	0,35	150	1200	100	M_EB2h/6.9
	◆ DDB6U180N16RR_B11	1600	180	1400	180/80	0,83	2,30	0,35	150	1200	100	M_EB2g/6.9
 3 phase bridge rectifier, halfcontrolled with brake chopper and NTC	TDB6HK124N16RR	1600	124	550	125/85	0,75	6,30	0,63	125	1200	70	M_EB2d/6.8
 3 phase bridge rectifier, halfcontrolled with brake chopper	TDB6HK180N16RR	1600	180	1400	180/80	0,83	2,30	0,35	150	1200	100	M_EB2f/6.8
	TDB6HK180N16RR_B11	1600	180	1400	180/80	0,83	2,30	0,35	150	1200	100	M_EB2e/6.8
 3 phase bridge rectifier, half-controlled with NTC	◆ TDB6HK240N16P	1600	240	data on request							M_EB4a/6.9	
	◆ TDB6HK360N16P	1600	360	data on request							M_EB4a/6.9	

◆ New type

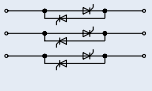
_B11 PressFIT Modules

eupec™ EconoBRIDGE™ Rectifiers are UL recognized

eupec™ IsoPACK™ Bridge

Type		V_{DRM}, V_{RRM} V $V_{DSM} = V_{DRM}$ $V_{RSM} =$ $V_{RRM} + 100V$	I_{FRMSM} (I_{TRMSM}) A	I_{FSM} (I_{TSM}) A 10 ms $T_{vj\ max}$	I_d/T_c A/°C	$V_{(TO)}$ V $T_{vj} =$ $T_{vj\ max}$	r_T mΩ $T_{vj} =$ $T_{vj\ max}$	R_{thJC} °C/W per arm 120° el Square wave	$T_{vj\ max}$ °C	Outline/ page
 <p>3 phase bridge rectifier, uncontrolled</p>	DDB6U85N16L	1600	60	550	85/100	0,75	5,50	1,45	150	M_1Pa/6.9
	DDB6U145N16L	1600	100	1000	145/100	0,75	3,10	0,89	150	M_1Pa/6.9
	DDB6U205N16L	1600	120	1375	205/100	0,75	2,20	0,59	150	M_1Pa/6.9
	DDB6U215N16L	1600	125	1850	215/100	0,75	1,60	0,49	150	M_1Pa/6.9
 <p>3 phase bridge rectifier, half controlled</p>	TDB6HK95N16LOF	1600	75	620	95/85	0,95	5,50	0,82	125	M_1Pb/6.9
	TDB6HK135N16LOF	1600	100	870	135/85	0,95	4,30	0,59	125	M_1Pb/6.9
	TDB6HK165N16LOF	1600	120	1050	165/85	0,95	3,20	0,49	125	M_1Pb/6.9
 <p>3 phase bridge rectifier, fully controlled</p>	TTB6C95N16LOF	1600	75	620	95/85	0,95	5,50	0,82	125	M_1Pb/6.9
	TTB6C135N16LOF	1600	100	870	135/85	0,95	4,30	0,59	125	M_1Pb/6.9
	TTB6C165N16LOF	1600	120	1050	165/85	0,95	3,20	0,49	125	M_1Pb/6.9

eupec™ IsoPACK™ AC-Switch

Type		V_{DRM}, V_{RRM} V $V_{DSM} = V_{DRM}$ $V_{RSM} =$ $V_{RRM} + 100V$	I_{FRMSM} (I_{TRMSM}) A	I_{FSM} (I_{TSM}) A 10 ms $T_{vj\ max}$	I_d/T_c A/°C	$V_{(TO)}$ V $T_{vj} =$ $T_{vj\ max}$	r_T mΩ $T_{vj} =$ $T_{vj\ max}$	R_{thJC} °C/W per arm 120° el Square wave	$T_{vj\ max}$ °C	Outline/ page
 <p>3 phase AC-Switches, fully controlled</p>	TTW3C85N16LOF	1600	75	620	85/85	0,95	5,50	0,70	125	M_1Pb/6.9
	TTW3C115N16LOF	1600	100	870	115/85	0,95	4,30	0,50	125	M_1Pb/6.9
	TTW3C145N16LOF	1600	120	1050	145/85	0,95	3,20	0,42	125	M_1Pb/6.9

eupec™ IsoPACK™ modules are UL recognized

POWER PRODUCTS

In This Section

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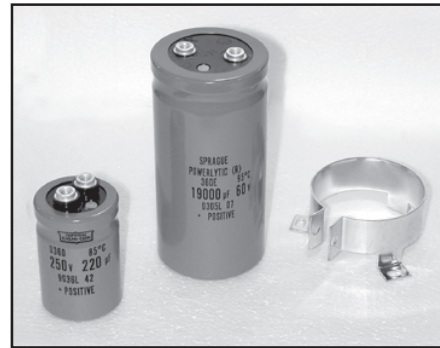
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Capacitors



OEM Xref	Mfr	Commercial #	Case Style	Micro-Farads	Working Voltage
Kone 46279-100	Xicon	140-XAL25V100	Axial Lead	100	25 VDC
Dover 9828953, 32895	Xicon	140-XAL50V220	Axial Lead, Electrolytic	220	50 VDC
Dover 9876212, 141108					
Dover 9715046, 238AK1	Xicon	140-XAL50V680	Axial Lead, Electrolytic	680	50 VDC
Dover 9719040, 341AM1	Vishay	715P473512MD3	Axial Lead, Metalized Polyester	0.047	1200 VDC
K473K20X7RF53L2	Vishay	192P473X9080	Axial Lead, Metalized Polyester	0.047	50 VDC
Dover 9845940, 17586360	G.E.	97F5276	Can Type, Non-Polarized	60	370 VAC
Dover 9763302, Dover 76330	Mallory	CG501U150R3C	Computer Grade Can	500	150 VDC
Otis 226W1	Mallory	CGS162U150R2L	Computer Grade Can	1600	150 VDC
US 936-60042-000	Mallory	CGS532U150U4C	Computer Grade Can	5300	150 VDC
Kone 47282	Mallory	CGS253U016R4C	Computer Grade Can	25000	16 VDC
	Mallory	CGS102T200V2C	Computer Grade Can	1000	200 VDC
	Mallory	CGS162T200V3C	Computer Grade Can	1600	200 VDC
	Mallory	CGS202T200V4C	Computer Grade Can	2000	200 VDC
	Mallory	CGS222T200V4C	Computer Grade Can	2200	200 VDC
	Mallory	CGS502T200W5C	Computer Grade Can	5000	200 VDC
	Mallory	CGS542T200X4L	Computer Grade Can	5400	200 VDC
	Mallory	CGS742T200X5L	Computer Grade Can	7400	200 VDC
Otis 226H2	Mallory	CGS251T250R2C	Computer Grade Can	250	250 VDC
Otis 226H4	Mallory	CGS251T250R2C	Computer Grade Can	250	250 VDC
		w/Add'l Hardware			
Otis 226H9	Mallory	CGS251T250R2C	Computer Grade Can	250	250 VDC
	Mallory	CGS551T250R4C	Computer Grade Can	550	250 VDC
	Mallory	CGS721T250R4C	Computer Grade Can	720	250 VDC
Dover 9849956, Otis 238AH1	Mallory	CGS122T250R3C	Computer Grade Can	1200	250 VDC
	Mallory	CGS122T250V3C	Computer Grade Can	1200	250 VDC
	Mallory	CGS252T250V5L	Computer Grade Can	2500	250 VDC
	Mallory	CGS502T250W3L	Computer Grade Can	5000	250 VDC
	Mallory	CGS131T350R2C	Computer Grade Can	130	350 VDC
	Mallory	CGS251T350R3C	Computer Grade Can	250	350 VDC
	Mallory	CGS331T350R2C	Computer Grade Can	330	350 VDC
	Mallory	CGS381T350R4C	Computer Grade Can	380	350 VDC
	Mallory	CGS481T350R2L	Computer Grade Can	480	350 VDC
Armor 11034-01	Mallory	CGS651T350V3C	Computer Grade Can	650	350 VDC
	Mallory	CGS651T350V3C	Computer Grade Can	650	350 VDC
	Mallory	CGS801T350V4C	Computer Grade Can	800	350 VDC
	Mallory	CGS102T350R4C	Computer Grade Can	1000	350 VDC
Armor 11034-01	Mallory	CGS102T350R4C	Computer Grade Can	1000	350 VDC

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Capacitors



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POWER PRODUCTS

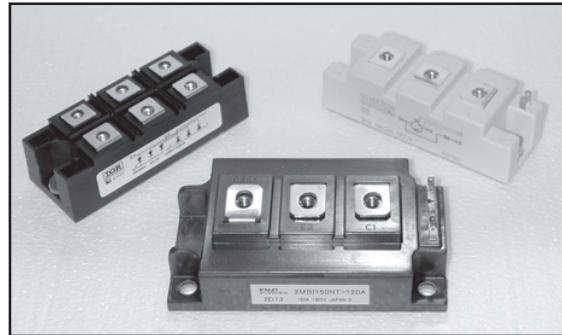
OEM Xref	Mfr	Commercial #	Case Style	Micro-Farads	Working Voltage	
Armor 11035-01	Mallory	CGS212T350X4C	Computer Grade Can	2100	350 VDC	
	Mallory	CGS222T350W5L	Computer Grade Can	2200	350 VDC	
Kone 713994G06	Mallory	CGS332T350V5L	Computer Grade Can	3300	350 VDC	
	Mallory	CGS422T350X4C	Computer Grade Can	4,200	350 VDC	
	Mallory	CGS632T350X5L	Computer Grade Can	6,300	350 VDC	
	Mallory	CGS103T350X8L	Computer Grade Can	10,000	350 VDC	
	Mallory	CGS123T350X8L	Computer Grade Can	12,000	350 VDC	
	Mallory	CGS272U040R2C	Computer Grade Can	2700	40 VDC	
Dover 9768439	Mallory	CGS272U040R2C	Computer Grade Can	2700	40 VDC	
Dover 9778044	Mallory	CGS781T400V4C	Computer Grade Can	780	400 VDC	
	Mallory	CGS750T450R2C	Computer Grade Can	75	450 VDC	
Armor 11025-01	Mallory	CGS101T450R2C	Computer Grade Can	100	450 VDC	
	Mallory	CGS101T450R2C	Computer Grade Can	100	450 VDC	
Dover 9727759	Mallory	CGS141T450R3C	Computer Grade Can	140	450 VDC	
	Mallory	CGS141T450R3C	Computer Grade Can	140	450 VDC	
	Mallory	CGS171T450R3C	Computer Grade Can	170	450 VDC	
	Mallory	CGS211T450R4C	Computer Grade Can	210	450 VDC	
	Mallory	CGS251T450R4C	Computer Grade Can	250	450 VDC	
	Mallory	CGS321T450V3C	Computer Grade Can	320	450 VDC	
US 936-40003-000	Mallory	CGS351T450R2L	Computer Grade Can	350	450 VDC	
	Mallory	CGS451T450V3C	Computer Grade Can	450	450 VDC	
	Mallory	CGS621T450V2L	Computer Grade Can	620	450 VDC	
	Mallory	CGS651T450V4C	Computer Grade Can	650	450 VDC	
	Mallory	CGS681T450R4C	Computer Grade Can	680	450 VDC	
	Mallory	CGS801T450V4L	Computer Grade Can	800	450 VDC	
	Mallory	CGS931T450V3C	Computer Grade Can	930	450 VDC	
	Mallory	CGS102T450R5L	Computer Grade Can	1000	450 VDC	
	Mallory	CGS112T450U4C	Computer Grade Can	1100	450 VDC	
	Mallory	CGS142T450V4C	Computer Grade Can	1400	450 VDC	
	Mallory	CGS152T450X4C	Computer Grade Can	1500	450 VDC	
	Dover 9755196, 238AW1	Mallory	CGS202T450X5C	Computer Grade Can	2000	450 VDC
		Mallory	CGS202T450X5C	Computer Grade Can	2000	450 VDC
		Mallory	CGS222T450V5L	Computer Grade Can	2200	450 VDC
Mallory		CGS252T450X3L	Computer Grade Can	2500	450 VDC	
Mallory		CGS332T450X5L	Computer Grade Can	3300	450 VDC	
Kone 49732	Mallory	CGS413U050X4L	Computer Grade Can	41000	50 VDC	
Dover 9716865, Otis 238AL1	Mallory	CGS282T500X4L	Computer Grade Can	2800	500 VDC	
Otis 226D1	PLCC	CM6-105B	Computer Grade Can	1	600 VDC	
Otis 226D2	PLCC	CM6-255B	Computer Grade Can	2.5	600 VDC	
Dover 76418	Mallory	CGS152U075R3C	Computer Grade Can	1500	75 VDC	
Dover 9764185, Dover 76418	Mallory	CGS152U075R3C	Computer Grade Can	1500	75 VDC	
Kone 46218	CDE	500C432U075AA2B	Computer Grade Can	4300	75 VDC	
Otis 226W2	Mallory	CGS162U150R2L & DALE HL-10-06Z-2	Computer Grade Can (with terminal mounted resistor)	1600	150 VDC	
Otis 226W3	Mallory	CGS162T200V3C & DALE HL-10-06Z-2	Computer Grade Can (w/terminal mounted resistor)	1600	200 VDC	
Kone 49136-010	G.E.	97F5300	Oval Can Type, Non-Polarized	10	440 VAC	
Kone 49136-020	G.E.	97F9625	Oval Can Type, Non-Polarized	20	440 VAC	
Kone 49136-040	G.E.	97F9642	Oval Can Type, Non-Polarized	40	440 VAC	
Dover 9715344	G.E.	97F8670	Oval Can Type, Non-Polarized	2	600 VAC	
Otis 232AE1	Dale	HL10-10-06Z-2	Terminal Resistor	250 OHM		

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26.3

Power Semiconductors



OEM Cross Reference	Mfr	Commercial Number	Max Amperage	Max Voltage	Type	Circuit Configuration
	Ideal	30-024 Noalox Tube	N/A	N/A	Antioxidant ½-oz. Tube	
	3M	2209	N/A	N/A	ESD Wrist Strap	
	Powerex	KS221K10	100	1000	Darlington	Single Darlington
Otis 230BS1	Gen. Inst.	GBPC2501	25	100	Diode Module	Single Phase Bridge Rectifier 1.02" Sq., Center Hole Mount
Otis 230BS2	Gen. Inst.	GBPC2502	25	200	Diode Module	Single Phase Bridge Rectifier 1.02" Sq., Center Hole Mount
Montgomery 46217-040	Gen. Inst.	GBPC2504	25	400	Diode Module	Single Phase Bridge Rectifier 1.02" Sq., Center Hole Mount
Otis AAA612AJ2	Int'l Rectifier	26MT60	25	600	Diode Module	3-Phase Bridge Rectifier 1.12" Sq., Center Hole Mount
Otis 230BS3	Gen. Inst.	GBPC2506	25	600	Diode Module	Single Phase Bridge Rectifier, 1.02" Sq., Center Hole Mount
Otis AAA612AM4, Montgomery 46217-100	Gen. Inst.	GBPC2508	25	800	Diode Module	Single Phase Bridge Rectifier, 1.02" Sq., Center Hole Mount
Otis P230BP3	Semikron	SKD25/08	25	800	Diode Module	3-Phase Bridge Rectifier, 1.12" Sq., Center Hole Mount
Dover 9854903	Semikron	SKB 25/12	25	1200	Diode Module	3-Phase Bridge Rectifier, 1.12" Sq., Center Hole Mount
	Powerex	ME701203	30	1200	Diode Module	3-Phase Diode Bridge
Montgomery 47472-040	Int'l Rectifier	36MB40A	35	400	Diode Module	Single-Phase Bridge Rectifier 1.12" Sq., Center Hole Mount
Montgomery 47472-060	Int'l Rectifier	36MB60A	35	600	Diode Module	Single-Phase Bridge Rectifier 1.12" Sq., Center Hole Mount
Otis 230BS5	Gen. Inst.	GBPC3506	35	600	Diode Module	Single Phase Bridge Rectifier 1.02" Sq., Center Hole Mount
Montgomery 46272-111	Int'l Rectifier	36MB100A	35	1000	Diode Module	Single-Phase Bridge Rectifier 1.12" Sq., Center Hole Mount
Dover AAA612AJ1	Int'l Rectifier	36MT100 or 36MT100A	35	1000	Diode Module	3-Phase Bridge Rectifier 1.12" Sq., Center Hole Mount
Otis P230BP1	Semikron	SKD50/04-A3	50	400	Diode Module	3-Phase Bridge Rectifier, 2.36" Sq. Mounting Holes 2.36" O.C.
AAA612AW4	Int'l Rectifier	110MT100KB	110	1000	Diode Module	3-Phase Bridge Rectifier

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Power Semiconductors



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POWER PRODUCTS

OEM Cross Reference	Mfr	Commercial Number	Max Amperage	Max Voltage	Type	Circuit Configuration
Dover 9850879	Toshiba	MG25Q2YS40	25	1200	IGBT	Dual
Dover 9716956	Toshiba	MG50Q2YS9	50	1200	IGBT	Dual
	Powerex	CM75DY24H	75	1200	IGBT	Dual
Dover 9716981	Toshiba	MG75Q2YS9	75	1200	IGBT	Dual
Dover 9717134	Toshiba	MG100Q2YS1	100	1200	IGBT	Dual
	Powerex	CM150DY-24H	150	1200	IGBT	Dual
Dover 9717171	Toshiba	MG150Q2YS40	150	1200	IGBT	Dual
	Powerex	CM200DY-24H	200	1200	IGBT	Dual
Dover 9717330	Toshiba	MG200Q1US41	200	1200	IGBT	Dual
	Toshiba	MG300Q1US41	300	1200	IGBT	Dual
Dover 9756590	Powerex	PM50RSA120	50	1200	IPM Module	Six-Pack
Dover 9756607	Powerex	PM75CSA120	75	1200	IPM Module	Six-Pack
Dover 9756541	Powerex	PM75DSA120	75	1200	IPM Module	Dual
Dover 9756619	Powerex	PM100CSA120	100	1200	IPM Module	Six-Pack
Dover 9756553	Powerex	PM100DSA120	100	1200	IPM Module	Dual
Dover 9816860	Powerex	PM150CVA120	150	1200	IPM Module	Six-Pack
Dover 9756565	Powerex	PM150DSA120	150	1200	IPM Module	Dual
	Powerex	PM200CVA060	200	600	IPM Module	Six-Pack
Dover 9756577	Powerex	PM200DSA120	200	1200	IPM Module	Dual
Dover 9816770	Powerex	PM200DVA120	200	1200	IPM Module	Dual
Dover 9756589	Powerex	PM300DSA120	300	1200	IPM Module	Dual
Dover 9816574	Powerex	PM400HSA1200	400	1200	IPM Module	Dual
	Powerex	ND431225	250	1200	SCR	Dual SCR
Montgomery 61798	Allen Bradley	SP-192704 Kit (SKKT56/12E, 30-024 Antioxidant & 2209 Wrist Strap)	95	1200	Thyrister/Diode Module	Dual
Montgomery 61799	Semikron	SKKT56/12E	95	1200	Thyrister/Diode Module	Dual
Montgomery 61801	Semikron	SKKT-161/12, Replaced by SKKT253/12	253	1200	Thyrister/Diode Module	Dual
Kone 264513	Semikron	SKM300GB-123D	300	1200	IGBT	Dual

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26.5

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