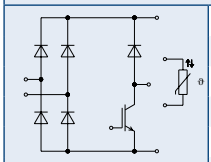
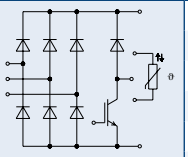
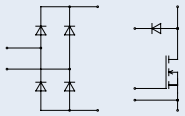
EasyBRIDGE

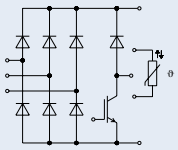
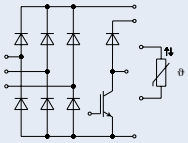
800 V_{CES}

Type		Diode V_{RRM} V	Diode I_d A	Diode V_{t0} V T_{vj} = 150°C	Diode r_t mΩ	Brake Chopper V_{CE} V	Brake Chopper I_C* A T_C = 80°C	Outline/ page
 single phase	DDB2U30N08VR	800	48	0.75	6.95	600	20	L_750d/7.7
 three phase	DDB6U30N08VR	800	30	0.85	8.30	600	20	L_750e/7.7
 single phase with MOSFET chopper	DDB2U50N08W1R_B23	800	50			600	50	data on request

_B23 single-phase rectifier with MOSFET chopper

EasyBRIDGE

1600 V_{CES}

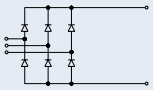
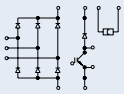
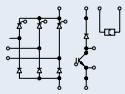
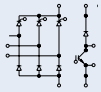
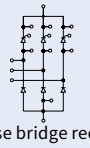
Type		Diode V_{RRM} V	Diode I_d A	Diode V_{t0} V T_{vj} = 150°C	Diode r_t mΩ	Brake Chopper V_{CE} V	Brake Chopper I_C* A T_C = 80°C	Outline/ page
 three phase	DDB6U25N16VR	1600	30	0.76	7.60	1200	15	L_750e/7.7
 three phase	DDB6U75N16W1R	1600	75			1200	50	L_1ba/7.7
	DDB6U75N16W1R_B11	1600	75			1200	50	L_1ba/7.7

* as specified in data sheet

..._B11 PressFIT Modules

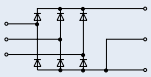
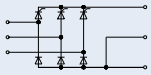
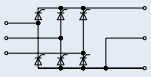
SCR Diode Modules

eupec™ EconoBRIDGE™

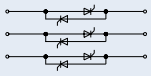
	Type	V_{DRM}, V_{RRM} V $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM}$ + 100V	I_{RMSM} A	I_{FSM} (I_{TSM}) A 10 ms $T_{vj\,max}$	I_d/T_c A/°C	$V_{(TO)}$ V $T_{vj} = T_{vj\,max}$	r_T mΩ $T_{vj} = T_{vj\,max}$	$T_{vj\,max}$ °C	V_{CES} V	I_C A	Outline/ page
 3 phase bridge rectifier, uncontrolled	DDB6U144N16R	1600	144	1000	145/100	0.75	3.1	150			M_EB2a/7.8
 3 phase bridge rectifier, uncontrolled with brake chopper and NTC	DDB6U104N16RR	1600	104	550	105/100	0.75	5.50	150	1200	50	M_EB2c/7.8
	◆ DDB6U104N16RRP_B37 TIM	1600	104	550	105/100	0.75	5.50	150	1200	50	M_EB2j/7.8
	DDB6U134N16RR	1600	134	550	134/100	0.75	6.30	150	1200	70	M_EB2c/7.8
	◆ DDB6U134N16RR_B11	1600	134	550	134/100	0.75	6.30	150	1200	70	M_EB2i/7.8
	◆ DDB6U180N16RRP_B37 TIM	1600	180	1400	180/80	0.83	2.30	150	1200	100	M_EB2k/7.8
 3 phase bridge rectifier, uncontrolled with brake chopper	◆ DDB6U180N16RR	1600	180	1400	180/80	0.83	2.30	150	1200	100	M_EB2h/7.9
	◆ DDB6U180N16RR_B11	1600	180	1400	180/80	0.83	2.30	150	1200	100	M_EB2g/7.9
 3 phase bridge rectifier, halfcontrolled with brake chopper and NTC	TDB6HK124N16RR	1600	124	550	125/85	0.75	6.30	125	1200	70	M_EB2d/7.8
 3 phase bridge rectifier, halfcontrolled with brake chopper	TDB6HK180N16RR	1600	180	1400	180/80	0.83	2.30	150	1200	100	M_EB2f/7.8
	TDB6HK180N16RR_B11	1600	180	1400	180/80	0.83	2.30	150	1200	100	M_EB2e/7.8
 3 phase bridge rectifier, half-controlled with NTC	◆ TDB6HK240N16P	1600	240	data on request							M_EB4a/7.9
	◆ TDB6HK360N16P	1600	360	data on request							M_EB4a/7.9

◆ New type _B11 PressFIT Modules _B37 special pinning, PressFIT eupec™ EconoBRIDGE™ Rectifiers are UL recognized
TIM with pre-applied Thermal Interface Material (TIM) for improved thermal performance. Other modules available with TIM on request.

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 $T_{vj} = T_{vj\,max}$	$T_{vj\,max}$ °C	Outline/ page
 3 phase bridge rectifier. uncontrolled	DDB6U85N16L	1600	60	550	85/100	0.75	5.50	150	M_1Pa/7.10
	DDB6U145N16L	1600	100	1000	145/100	0.75	3.10	150	M_1Pa/7.10
	DDB6U205N16L	1600	120	1375	205/100	0.75	2.20	150	M_1Pa/7.10
	DDB6U215N16L	1600	125	1850	215/100	0.75	1.60	150	M_1Pa/7.10
 3 phase bridge rectifier. half controlled	TDB6HK95N16LOF	1600	75	620	95/85	0.95	5.50	125	M_1Pb/7.10
	TDB6HK135N16LOF	1600	100	870	135/85	0.95	4.30	125	M_1Pb/7.10
	TDB6HK165N16LOF	1600	120	1050	165/85	0.95	3.20	125	M_1Pb/7.10
 3 phase bridge rectifier. fully controlled	TTB6C135N16LOF	1600	100	870	135/85	0.95	4.30	125	M_1Pb/7.10
	TTB6C165N16LOF	1600	120	1050	165/85	0.95	3.20	125	M_1Pb/7.10

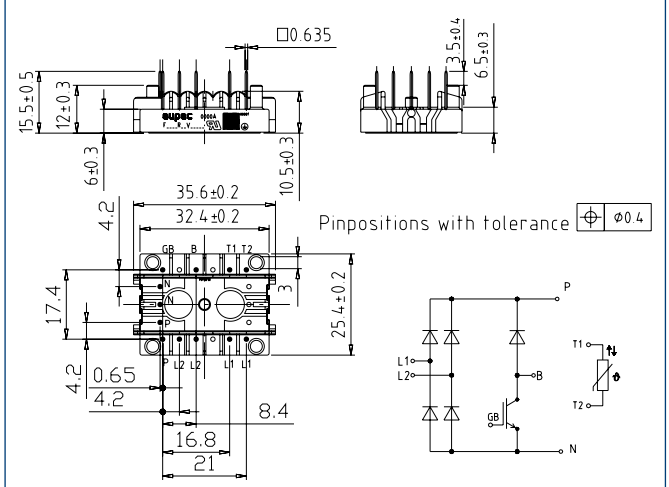
eupec™ IsoPACK™ AC-Switch

	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 $T_{vj} = T_{vj\,max}$	$T_{vj\,maxw}$ °C	Outline/ page
 3 phase AC-Switches, fully controlled	TTW3C85N16LOF	1600	75	620	85/85	0.95	5.50	125	M_1Pb/7.10

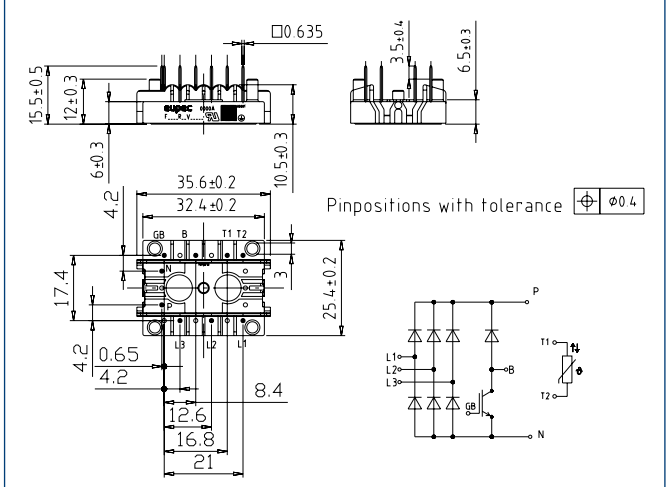
eupec™ IsoPACK™ modules are UL recognized

Outlines

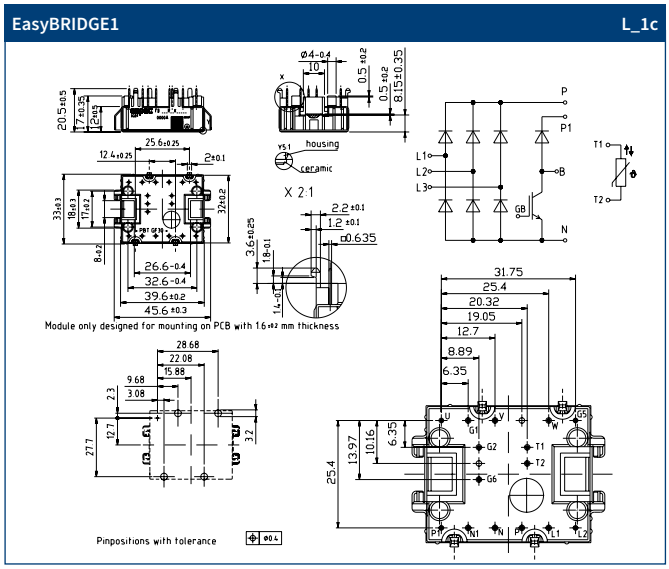
EasyBRIDGE750 **L_750d**



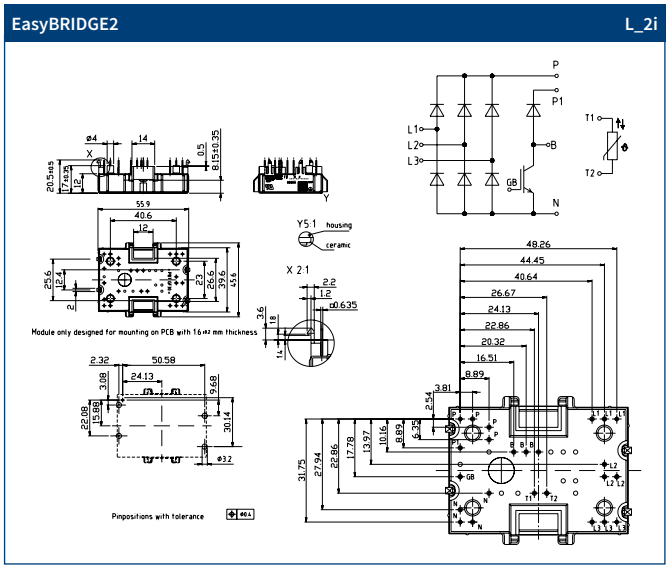
EasyBRIDGE750 **L_750e**



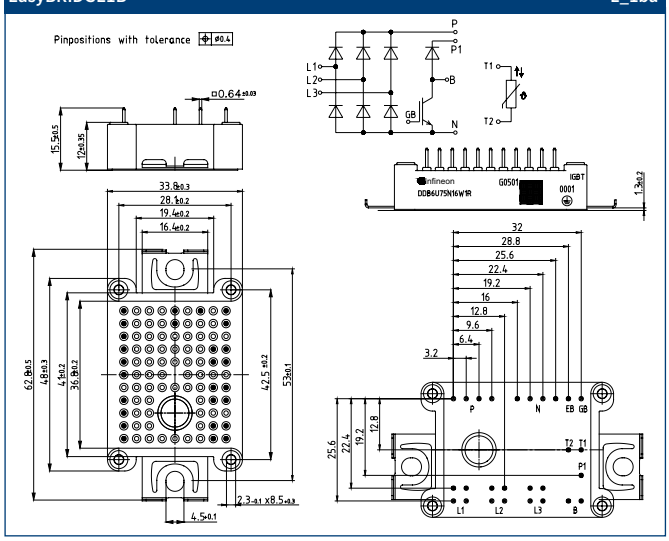
EasyBRIDGE1 **L_1c**



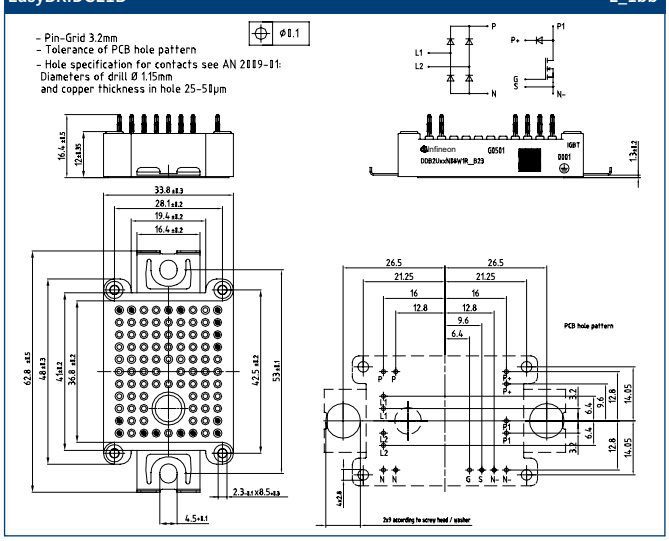
EasyBRIDGE2 **L_2i**



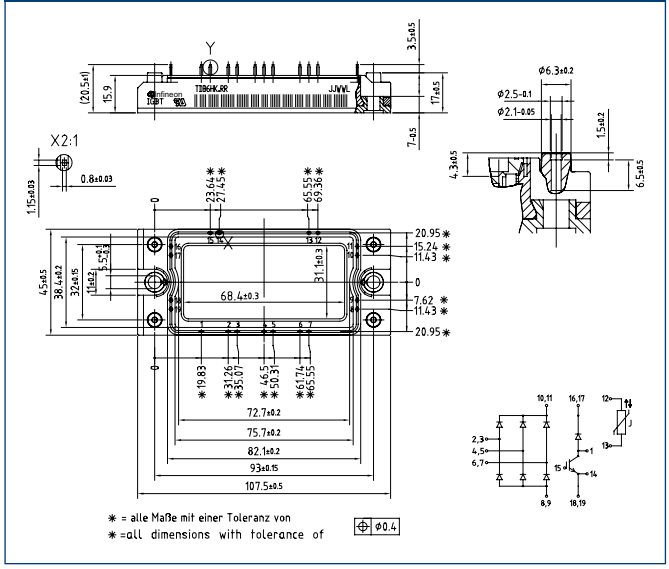
EasyBRIDGE1B **L_1ba**



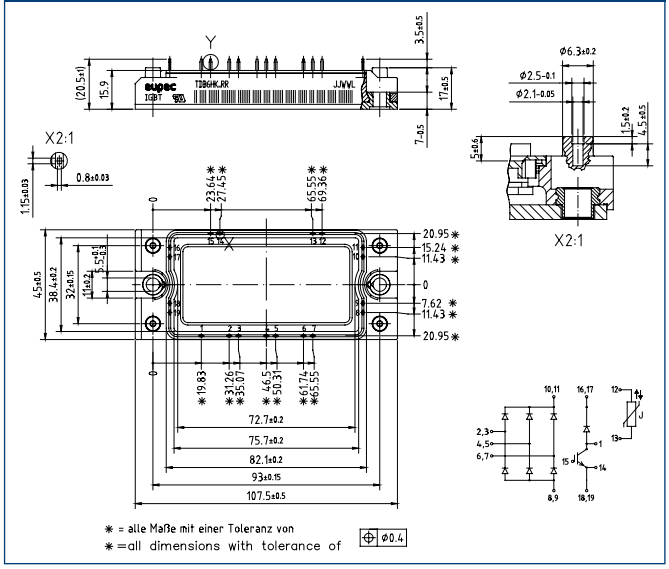
EasyBRIDGE1B **L_1bb**



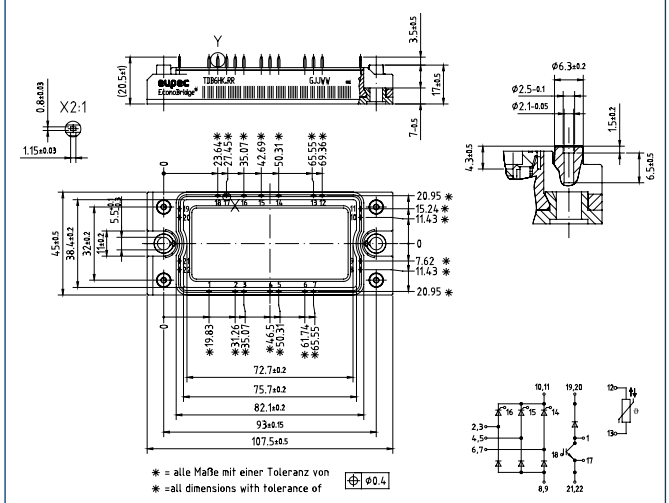
eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2a



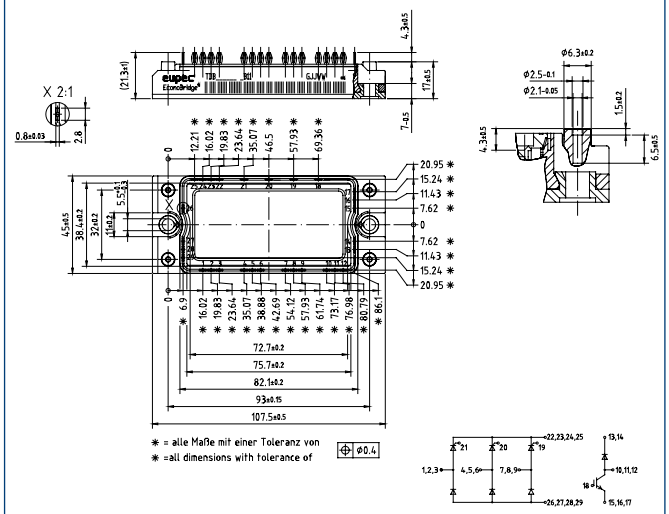
eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2c



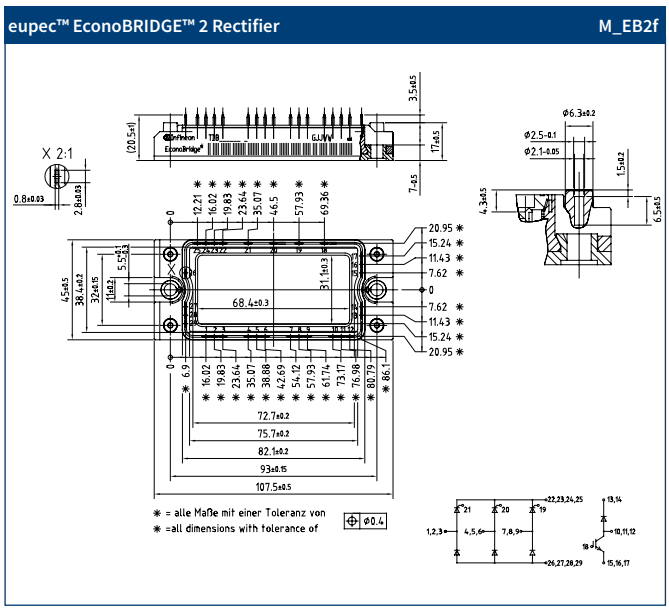
eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2d



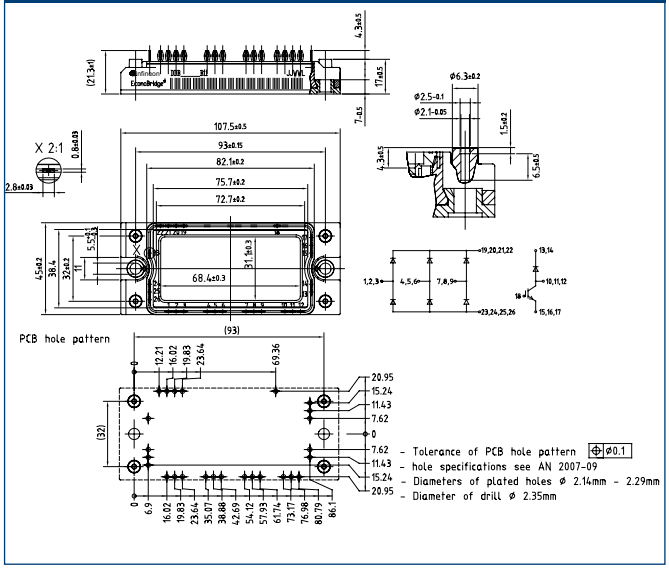
eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2e



eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2f

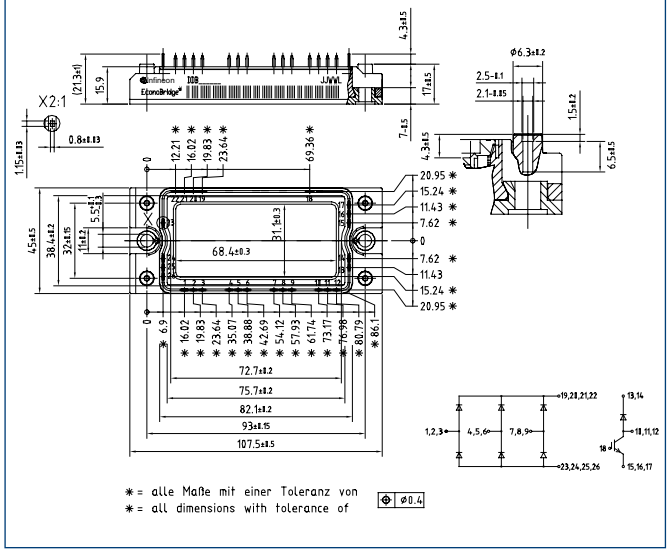


eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2g

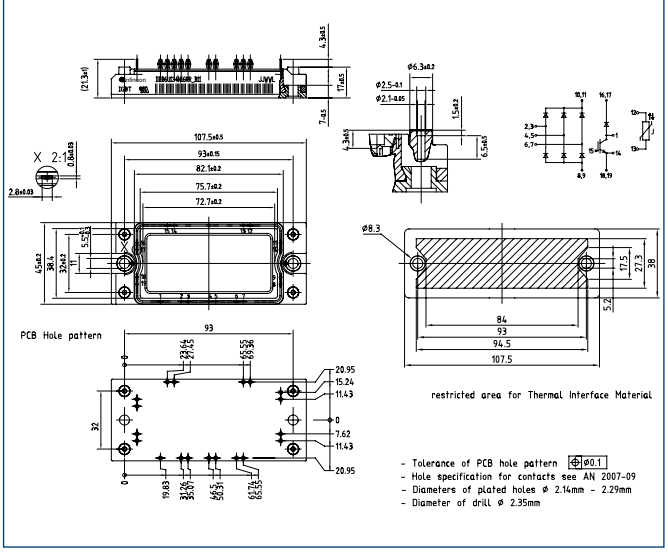


SCR
Diode Modules

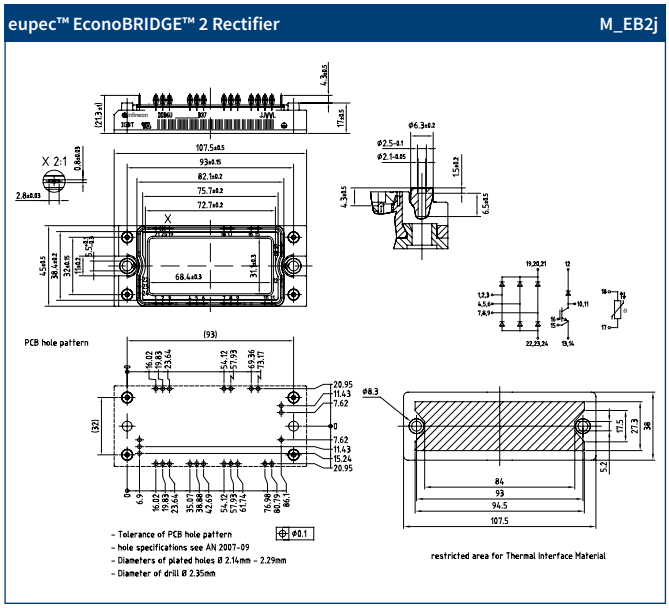
eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2h



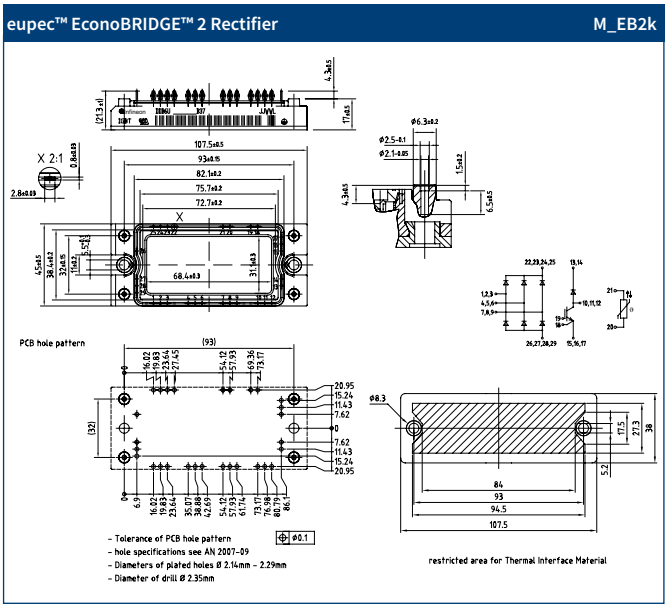
eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2i



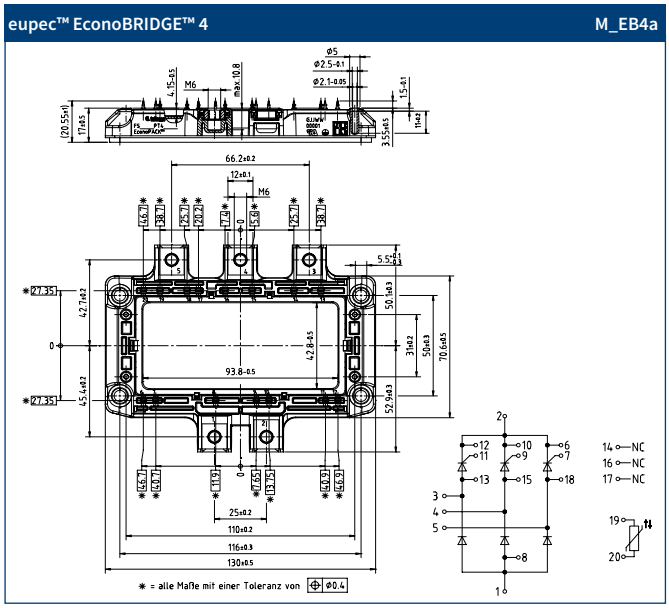
eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2j



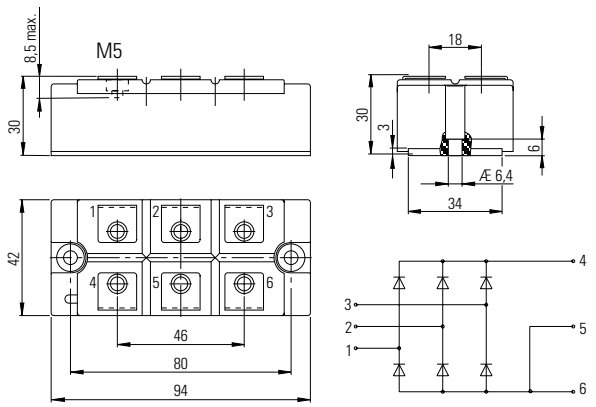
eupec™ EconoBRIDGE™ 2 Rectifier — M_EB2k



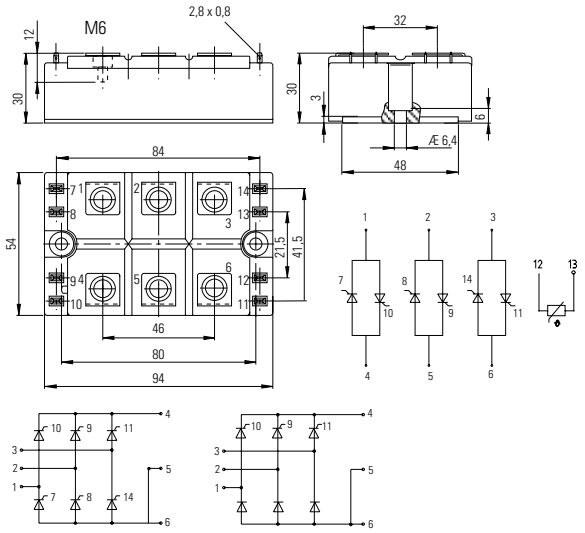
eupec™ EconoBRIDGE™ 4 — M_EB4a



eupec™ IsoPACK™ 42 M_1Pa



eupec™ IsoPACK™ 54 M_1Pb



Package Units

Rectifier Modules	Housing Size (overall)	Packing Units
IsoPACK™	42 mm	4
	54 mm	3
eupec EconoBRIDGE™ 2	45 mm x 107 mm	10
eupec EconoBRIDGE™ 4	130.0 mm x 103.0 mm	6
EasyBRIDGE 750	25.4mm x 35.6 mm	40
EasyBRIDGE 1	33 mm x 45.6 mm	20
EasyBRIDGE 2	45.6 mm x 55.9 mm	20

Thyristor & Diode Modules

We offer a broad range of PowerBLOCK modules containing thyristor and diode pellets in a voltage range of 1600V to 4400V and a current range of 60A up to 1100A. The modules are designed and assembled in pressure contact technology for highest reliability and, as well as highly reliable and cost saving solder bond technology using an isolated copper base plate.
They are offered in several dual and single device topologies for allmost all phase control or rectifier applications. Application areas for our modules are e.g. electrical drives, as well as low voltage soft starters and general purpose power supplies.

Portfolio Thyristor & Diode Modules

Package Technology	Typical areas of application	V_{RRM} (V)	1600V	1800V	2200V	2400V	2600V	2800V	3400V	3600V	4000V	4400V
PowerBLOCK 20mm pressure contact	Drives, UPS, Welding		■	■	■	■						
PowerBLOCK 20mm solder bond	Drives, UPS		■									
PowerBLOCK 34mm pressure contact	Drives, UPS, Welding		■	■	■							
PowerBLOCK 34mm solder bond	Drives, UPS		■									
PowerBLOCK 50mm pressure contact	CAV, Drives, Traction, UPS, Welding, Wind		■	■	■		■		■	■	■	
PowerBLOCK 50.1 pressure contact	CAV, Drives, Traction, UPS, Welding, Wind		■	■	■		■			■		
PowerBLOCK 60mm pressure contact	CAV, Drives, Traction, UPS, Welding, Wind		■	■	■		■	■	■	■	■	
PowerBLOCK 70mm pressure contact	CAV, Drives, Traction, UPS, Welding, Wind		■	■	■		■	■		■		■

Overview PowerBLOCK Thyristor Modules for Phase Control

SCR Diode Modules

PowerBLOCK

Thyristor Modules for Phase Control

	Type TT	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	also available V_{DRM}, V_{RRM} [V]	I_{TSM} [A] @10 ms, $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] 10 ms, $T_{vj\,max}$	I_{TAVM}/T_c [A/°C] @180° el sin	$V_{(TO)}$ [V] @$T_{vj\,max}$	r_T [mΩ] @$T_{vj\,max}$	$(di/dt)_{cr}$ [A/µs] @DIN IEC 747-6	R_{thJC} [K/W] @180° el sin	R_{thCK} [K/W] @180° el sin	$T_{vj\,max}$ [°C]	Outline / page
20 mm Base plate	Solder Contact												
	TT 60 N16 SOF	1600		1200	7.2	55/85	1.00	4.80	140	0.490	0.245	130	TS20/7.22
	TT 120 N16 SOF	1600		1900	18.05	119/85	0.90	3.35	140	0.200	0.245	130	TS20/7.22
	Pressure Contact												
	TT 61 N16 KOF	1600	1200, 1400	1400	9.8	60/85	0.80	3.40	150	0.520	0.16	125	TP20/ 7.22
	TT 92 N16 KOF	1600	1200, 1400	1800	16.2	92/87	0.85	2.15	150	0.370	0.10	130	TP20/ 7.22
	TT 104 N14 KOF	1400	1200	1800	16.2	104/86	0.85	2.15	150	0.370	0.10	140	TP20/ 7.22
34 mm Base plate	Solder Contact												
	TT 140 N16 SOF	1600		4000	80	140/85	1.00	1.60	200	0.190	0.10	125	TS314/7.22
	TT 175 N16 SOF	1600		5000	125	175/85	0.83	1.30	200	0.164	0.10	125	TS34/7.22
	Pressure Contact												
	TT 122 N22 KOF	2200	1800	2950	43.5	122/85	1.00	2.15	100	0.200	0.06	125	TP34/ 7.22
	TT 140 N22 KOF	2200	1800	3200	51.2	140/85	0.90	1.75	150	0.190	0.06	125	TP34/ 7.22
	TT 142 N16 KOF	1600	1200, 1400	4100	84.0	142/85	0.90	1.10	150	0.220	0.06	125	TP34/ 7.22
	TT 162 N16 KOF	1600	1200, 1400	4400	97.0	162/85	0.85	0.95	150	0.200	0.06	125	TP34/ 7.22
	TT 180 N16 KOF	1600	1200	4100	84.0	180/85	0.85	0.90	150	0.200	0.06	130	TP34/ 7.22
50 mm Base plate	Pressure Contact												
	TT 150 N26 KOF	2600	2200	4000	80	150/85	1.20	2.30	60	0.130	0.04	125	TP50/ 7.22
	TT 210 N18 KOF	1800	1200, 1400, 1600	5800	168	210/85	1.00	0.85	150	0.130	0.04	125	TP50A/ 7.22
	TT 215 N22 KOF	2200	1800, 2000	6300	198	215/85	0.95	0.92	100	0.130	0.04	125	TP50A/ 7.22
	TT 250 N18 KOF	1800	1200, 1400, 1600	7000	245	250/85	0.80	0.70	150	0.130	0.04	125	TP50A/ 7.22
	TT 251 N18 KOF	1800	1200, 1400, 1600	8000	320	250/85	0.80	0.70	250	0.130	0.04	125	TP50A/ 7.22
	TT 260 N22 KOF	2200		8000	320	260/85	0.85	0.64	250	0.120	0.04	125	TP50A/ 7.22
	TT 270 N16 KOF	1600		9000	400	270/85	0.80	0.58	250	0.120	0.04	125	TP50A/ 7.22
	TT 330 N16 KOF	1600	1200, 1400	10000	500	330/85	0.80	0.50	250	0.112	0.04	130	TP50/ 7.22
60 mm Base plate	Pressure Contact												
	TT 240 N38 KOF	3800	2800, 3200, 3400, 3600	5500	151	240/89	1.17	1.70	100	0.078	0.02	125	TP60/ 7.22
	TT 310 N26 KOF	2600	2000, 2200, 2400	9000	405	310/85	1.00	0.86	120	0.078	0.02	125	TP60/ 7.22
	TT 400 N26 KOF	2600	2400	11000	605	400/85	1.00	0.50	150	0.065	0.02	125	TP60/ 7.22
	TT 425 N18 KOF	1800	1200, 1400, 1600	14500	1051	471/85	0.90	0.35	120	0.065	0.02	125	TP60A/ 7.22
	TT 430 N22 KOF	2200		17500	1051	430/85	0.95	0.45	150	0.065	0.02	125	TP60A/ 7.22
	TT 500 N18 KOF	1800	1200, 1400, 1600	14500	1051	500/85	0.85	0.35	200	0.058	0.02	125	TP60A/ 7.22
	TT 520 N22 KOF	2200		14500	1051	520/85	0.85	0.35	200	0.058	0.02	125	TP60A/ 7.22
	TT 570 N16 KOF	1600		17500	1531	600/85	0.80	0.23	200	0.058	0.02	125	TP60A/ 7.22
	TT 600 N16 KOF	1600		17500	1531	620/85	0.80	0.23	200	0.058	0.02	125	TP60A/ 7.22

PowerBLOCK modules are UL recognized

Common anode or cathode on request

PowerBLOCK

Single Thyristor Modules for Phase Control

	Type TZ	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	also available V_{DRM}, V_{RRM} [V]	I_{TSM} [A] @10 ms, $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] 10 ms, $T_{vj\,max}$	I_{TAVM}/T_c [A/°C] @180° el sin	$V_{(TO)}$ [V] @$T_{vj\,max}$	r_T [mΩ] @$T_{vj\,max}$	$(di/dt)_{cr}$ [A/µs] @DIN IEC 747-6	R_{thJC} [K/W] @180° el sin	R_{thCK} [K/W] @180° el sin	$T_{vj\,max}$ [°C]	Outline / page
50 mm Base plate	Pressure Contact												
	TZ 240 N36 KOF	3600	3000, 3200, 3400	5500	151	240/85	1.17	1.70	100	0.078	0.02	125	TP50.1/7.23
	TZ 310 N26 KOF	2600	2000, 2200, 2400	8000	320	310/85	1.00	0.86	120	0.078	0.02	125	TP50.1/ 7.23
	TZ 400 N26 KOF	2600	2000, 2400	11000	605	400/85	1.00	0.50	150	0.065	0.02	125	TP50.1/ 7.23
	TZ 425 N18 KOF	1800	1200, 1400, 1600	12500	781	425/85	0.90	0.30	120	0.078	0.02	125	TP50.1/ 7.23
	TZ 430 N22 KOF	2200	2000	12000	720	430/85	0.95	0.45	150	0.065	0.02	125	TP50.1/ 7.23
	TZ 500 N18 KOF	1800	1200, 1400, 1600	14500	1051	500/85	0.90	0.27	200	0.065	0.02	125	TP50.1/ 7.23
	TZ 600 N16 KOF	1600	1200, 1400	14000	980	600/85	0.90	0.27	200	0.065	0.02	125	TP50.1/ 7.23
70 mm Base plate	Pressure Contact												
	TZ 530 N36 KOF	3600	3200	20000	2000	530/85	1.05	0.49	80	0.045	0.01	125	TP70/ 7.23
	TZ 630 N28 KOF	2800	2200, 2400	23000	2650	630/85	0.95	0.37	150	0.042	0.01	125	TP70/ 7.23
	TZ 740 N22 KOF	2200	2000	26500	3500	819/85	0.82	0.17	200	0.042	0.015	125	TP70A/ 7.23
	TZ 800 N18 KOF	1800	1200, 1400, 1600	30000	4500	819/85	0.82	0.17	200	0.042	0.015	125	TP70A/ 7.23
	TZ 810 N22 KOF	2200		35000	6125	819/85	0.82	0.17	200	0.042	0.015	125	TP70A/ 7.23
	TZ 860 N16 KOF	1600		40000	8000	860/85	0.80	0.145	200	0.042	0.015	125	TP70A/ 7.23

PowerBLOCK modules are UL recognized

PowerBLOCK

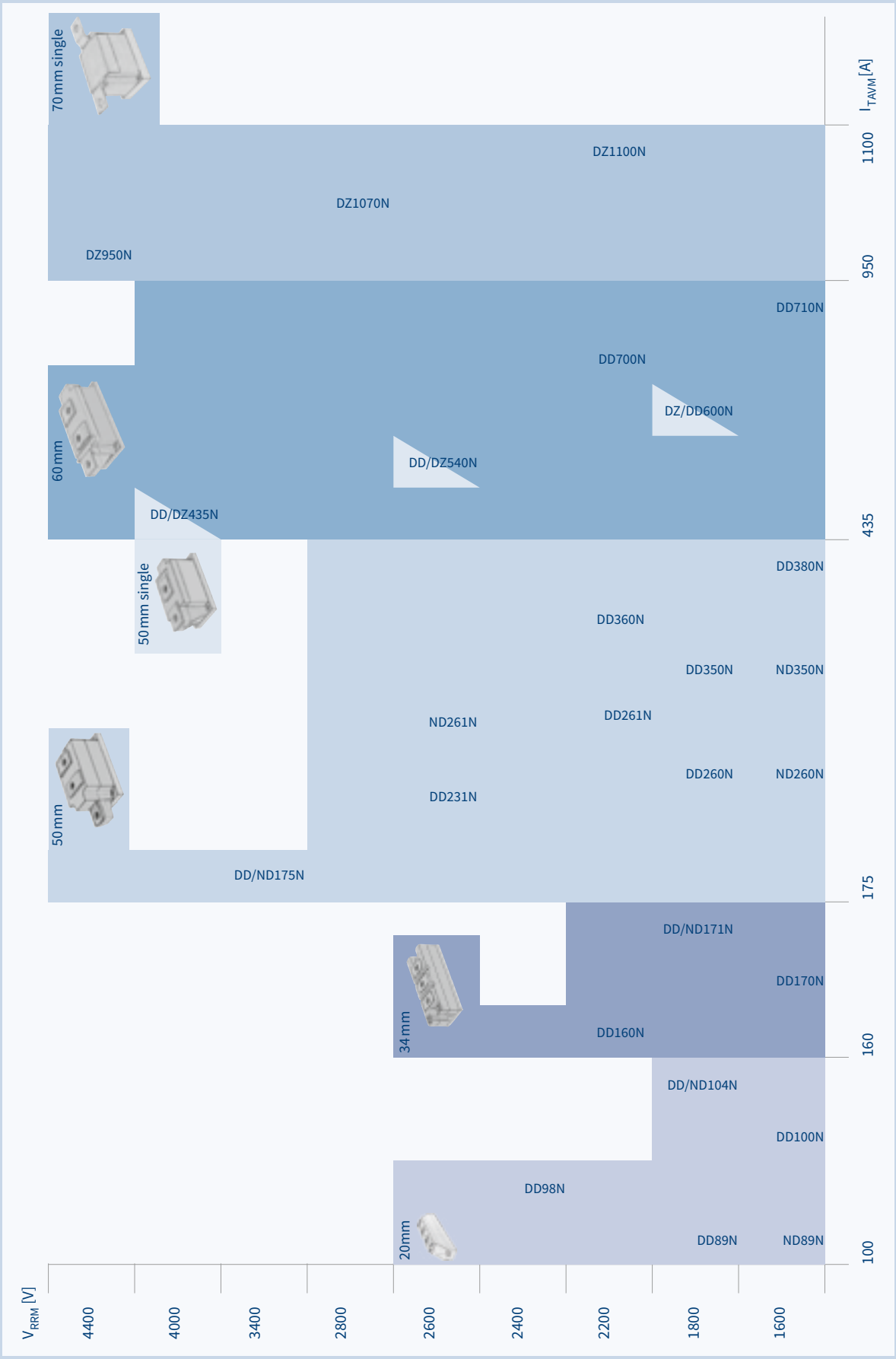
Thyristor/Diode Modules for Phase Control

	Type TD	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	also available V_{DRM}, V_{RRM} [V]	I_{TSM} [A] @10 ms, $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] 10 ms, $T_{vj\,max}$	I_{TAVM}/T_c [A/°C] @180° el sin	$V_{(TO)}$ [V] @$T_{vj\,max}$	r_T [mΩ] @$T_{vj\,max}$	$(di/dt)_{cr}$ [A/µs] @DIN IEC 747-6	R_{thJC} [K/W] @180° el sin	R_{thCK} [K/W] @180° el sin	$T_{vj\,max}$ [°C]	Outline / page
20 mm Base plate	Solder Contact												
	TD 60 N16 SOF	1600		1200	7.2	55/85	1.00	4.80	140	0.490	0.245	130	TS20/ 7.22
	TD 120 N16 SOF	1600		1900	18.05	119/85	0.90	3.35	140	0.200	0.245	130	TS20/ 7.22
	Pressure Contact												
	TD 61 N16 KOF	1600	1200, 1400	1400	9.8	60/85	0.80	3.40	150	0.52	0.16	125	TP20/ 7.22
	TD 92 N16 KOF	1600	1200, 1400	1800	16.2	92/85	0.85	2.15	150	0.37	0.10	130	TP20/ 7.22
	TD 104 N14 KOF	1400	1200	1800	16.2	104/85	0.85	2.15	150	0.37	0.10	140	TP20/ 7.22
34 mm Base plate	Solder Contact												
	TD 140 N16 SOF	1600		4000	80	140/85	1.00	1.60	200	0.190	0.10	125	TS34/ 7.22
	TD 175 N16 SOF	1600		5000	125	175/85	0.83	1.30	200	0.164	0.10	125	TS34/ 7.22
	Pressure Contact												
	TD 122 N24 KOF	2400	2200	2950	43.5	122/85	1.00	2.15	100	0.20	0.06	125	TP34/ 7.22
	TD 140 N22 KOF	2200	1800	3200	51.2	140/85	0.90	1.75	150	0.19	0.06	125	TP34/ 7.22
	TD 142 N16 KOF	1600	1200, 1400	4100	84	142/85	0.90	1.10	150	0.22	0.06	125	TP34/ 7.22
	TD 162 N16 KOF	1600	1200, 1400	4400	97	162/85	0.85	0.95	150	0.20	0.06	125	TP34/ 7.22
	TD 180 N16 KOF	1600		4100	84	180/85	0.85	0.90	150	0.20	0.06	130	TP34/ 7.22
50 mm Base plate	Pressure Contact												
	TD 150 N26 KOF	2600	2400	4000	80	150/85	1.20	2.30	60	0.130	0.04	125	TP50/ 7.22
	TD 210 N18 KOF	1800	1200, 1400, 1600	5800	168	210/85	1.00	0.85	150	0.130	0.04	125	TP50A/ 7.22
	TD 215 N22 KOF	2200		6300	198	215/85	0.95	0.92	100	0.130	0.04	125	TP50A/ 7.22
	TD 250 N18 KOF	1800	1200, 1400, 1600	7000	245	250/85	0.80	0.70	150	0.130	0.04	125	TP50A/ 7.22
	TD 251 N18 KOF	1800	1400, 1600	8000	320	250/85	0.80	0.70	250	0.130	0.04	125	TP50A/ 7.22
	TD 260 N22 KOF	2200		8000	320	260/85	0.85	0.64	250	0.120	0.04	125	TP50A/ 7.22
	TD 270 N16 KOF	1600		9000	400	270/85	0.8	0.58	250	0.120	0.04	125	TP50A/ 7.22
	TD 330 N16 KOF	1600		10000	500	330/85	0.80	0.50	250	0.112	0.04	130	TP50A/ 7.22
60 mm Base plate	Pressure Contact												
	TD 240 N36 KOF	3600	3200	5500	151	240/85	1.17	1.70	100	0.078	0.02	125	TP60/ 7.23
	TD 310 N26 KOF	2600	2000, 2200	9000	405	310/85	1.00	0.86	120	0.078	0.02	125	TP60/ 7.23
	TD 400 N26 KOF	2600		11000	605	400/85	1.00	0.50	150	0.065	0.02	125	TP60/ 7.23
	TD 425 N18 KOF	1800	1600	12500	781	471/85	0.90	0.35	120	0.065	0.02	125	TP60A/ 7.23
	TD 430 N22 KOF	2200		12000	720	430/85	0.95	0.45	150	0.065	0.02	125	TP60A/ 7.23
	TD 500 N18 KOF	1800	1200, 1600	14500	1051	500/85	0.85	0.35	200	0.058	0.02	125	TP60A/ 7.23
	TD 520 N22 KOF	2200		14500	1051	520/85	0.85	0.35	200	0.058	0.02	125	TP60A/ 7.23
	TD 570 N16 KOF	1600		14000	980	600/85	0.80	0.23	200	0.058	0.02	125	TP60A/ 7.23
	TD 600 N16 KOF	1600		17500	1531	620/85	0.80	0.23	200	0.058	0.02	125	TP60A/ 7.23

PowerBLOCK modules are UL recognized

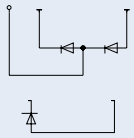
Common anode or cathode on request

Overview PowerBLOCK Diode Modules for Phase Control



PowerBLOCK

Rectifier Diode Modules



	Type DD / Type ND/DZ	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	also available V_{DRM}, V_{RRM} [V]	I_{TSM} [A] @10 ms, $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] 10 ms, $T_{vj\,max}$	I_{TAVM}/T_c [A/°C] @180° el sin	$V_{(TO)}$ [V] @$T_{vj\,max}$	r_T [mΩ] @$T_{vj\,max}$	$(di/dt)_{cr}$ [A/µs] @DIN IEC 747-6	R_{thCK} [K/W] @180° el sin	$T_{vj\,max}$ [°C]	Outline / page
20 mm Base plate	Solder Contact											
	DD 100 N16 S	1600		2000	20	134/100	0.87	2.45	0.2	0.220	130	DS20/ 7.24
	Pressure Contact											
	DD 89 N18 K	1800	1200, 1400, 1600	2400	28.8	89/100	0.75	2.3	0.45	0.10	150	DP20/ 7.24
	ND 89 N16 K	1600	1200	2400	28.8	89/100	0.75	2.3	0.45	0.10	150	DP20/ 7.24
	DD 98 N24 K	2400	2000, 2200	2000	20	98/100	0.82	2.0	0.39	0.10	150	DP20/ 7.24
	DD 104 N18 K	1800	1200, 1400, 1600	2500	31.25	104/100	0.70	2.1	0.39	0.10	150	DP20/ 7.24
	ND 104 N18 K	1800	1200, 1600	2500	31.25	104/100	0.70	2.1	0.39	0.10	150	DP20/ 7.24
34 mm Base plate	Solder Contact											
	DD 170 N16 S	1600		5500	151.3	165/100	0.75	1.05	0.18	0.22	135	DS34/ 7.24
	Pressure Contact											
	DD 160 N22 K	2200		4600	105.8	160/100	0.80	1.00	0.26	0.06	150	DP34/ 7.24
	DD 171 N18 K	1800	1200, 1400, 1600	5600	157	170/100	0.75	0.8	0.26	0.06	150	DP34/ 7.24
	ND 171 N18 K	1800	1200, 1400, 1600	5600	157	170/100	0.75	0.8	0.26	0.06	150	DP34/ 7.24
50 mm Base plate	Pressure Contact											
	DD 175 N34 K	3400	3000, 3200	4000	80	175/100	0.90	1.80	0.17	0.04	150	DP50/ 7.24
	ND 175 N34 K	3400		4000	80	175/100	0.90	1.80	0.17	0.04	150	DP50ND/ 7.24
	DD 231 N26 K	2600	2000, 2200, 2400	6400	205	231/100	0.80	1.84	0.17	0.04	150	DP50/ 7.24
	DD 260 N18 K	1800	1200, 1400, 1600	8300	344	260/100	0.70	0.68	0.17	0.04	150	DP50/ 7.24
	ND 260 N16 K	1600	1200, 1400	8300	344	260/100	0.70	0.68	0.17	0.04	150	DP50ND/ 7.24
	DD 261 N22 K	2200	2000	8300	344	260/100	0.70	0.68	0.17	0.04	150	DP50/ 7.24
	ND 261 N26 K	2600	2000, 2200	8300	344	260/100	0.70	0.68	0.17	0.04	150	DP50ND/ 7.24
	DD 285 N04 K	400	200	8300	344	285/100	0.75	0.40	0.17	0.04	150	DP50/ 7.24
	DD 350 N18 K	1800	1200, 1400, 1600	11000	605	350/100	0.75	0.40	0.13	0.04	150	DP50/ 7.24
	ND 350 N16 K	1600	1200	11000	605	350/100	0.75	0.40	0.13	0.04	150	DP50ND/ 7.24
	DD 360 N22 K	2200		11500	550	360/100	0.75	0.40	0.125	0.04	150	DP50A/ 7.24
	DD 380 N16 K	1600		11500	660	380/100	0.75	0.32	0.125	0.04	150	DP50A/ 7.24
	DZ 435 N40 K	4000	3600	12000	720	435/100	0.84	0.60	0.078	0.02	150	DP50.1/ 7.25
	DZ 540 N26 K	2600	2000, 2200, 2400	14000	980	540/100	0.78	0.31	0.078	0.02	150	DP50.1/ 7.25
	DZ 600 N18 K	1800	1200, 1400, 1600	19000	1805	600/100	0.75	0.22	0.078	0.02	150	DP50.1/ 7.25
60 mm Base plate	Pressure Contact											
	DD 435 N40 K	4000	2800, 3400, 3600	12000	720	435/100	0.84	0.60	0.078	0.02	150	DP60/ 7.25
	DD 540 N22 K	2200		14000	980	540/100	0.78	0.31	0.078	0.02	150	DP60A/ 7.25
	DD 540 N26 K	2600	2400	14000	980	540/100	0.78	0.31	0.078	0.02	150	DP60/ 7.25
	DD 600 N18 K	1800	1200, 1400, 1600	19000	1800	600/100	0.75	0.215	0.078	0.02	150	DP60A/ 7.25
	DD 700 N22 K	2200		19000	1805	700/100	0.78	0.19	0.065	0.02	150	DP60A/ 7.25
	DD 710 N16 K	1600		22000	2420	710/100	0.75	0.15	0.065	0.02	150	DP60A/ 7.25
70 mm Base plate	Pressure Contact											
	DZ 950 N44 K	4400	3600	29000	4205	950/100	0.85	0.28	0.042	0.01	150	DP70/ 7.25
	DZ 1070 N22 K	2200	1800	35000	6125	1100/100	0.75	0.073	0.045	0.01	150	DP70A/ 7.25
	DZ 1070 N28 K	2800	2600	35000	6125	1070/100	0.80	0.17	0.045	0.01	160	DP70/ 7.25
	DZ 1100 N22 K	2200		40000	8000	1100/100	0.75	0.073	0.048	0.015	150	DP70A/ 7.25

PowerBLOCK modules are UL recognized

Common anode or cathode on request

*$V_{RSM} = V_{RRM} + 50V$

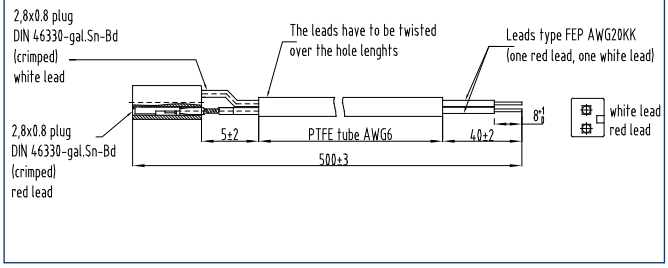
SCR Diode Modules

Gate Leads for PowerBLOCK Thyristor Modules

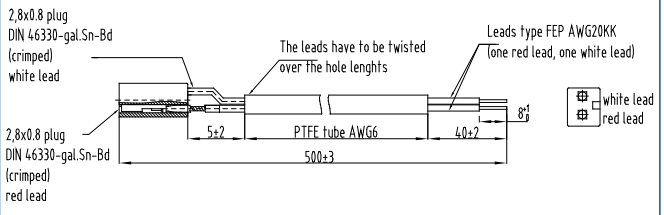
Gate leads must be ordered separately

Base plate width [mm]	Type	Terminal #	Terminal descr.	gate lead color	"HK" lead color	length [mm]	Ordering Code
20	Gatelead L=500 PB20 G1/K1	5/4	G1/K1	red	white	500	SP000983478
	Gatelead L=500 PB20 G2/K2	6/7	G2/K2	red	white	500	SP000983484
34, 50, 60	Gatelead L=500 PB34-60 G1/K1	5/4	G1/K1	red	white	500	SP000983496
	Gatelead L=500 PB34-60 G2/K2	6/7	G2/K2	red	white	500	SP000983490
50 single	Gatelead L=500 PB34-60 G1/K1	5/4	G2/K2	red	white	500	SP000983496
70 single	Gatelead L=500 PB34-70 G2/K2	5/4	G2/K2	red	white	500	SP000983490

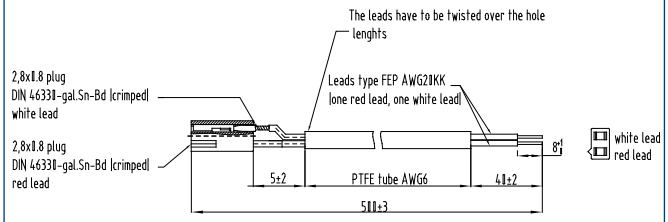
SP000983478



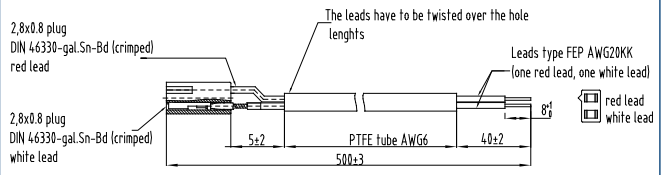
SP000983484



SP000983496



SP000983490



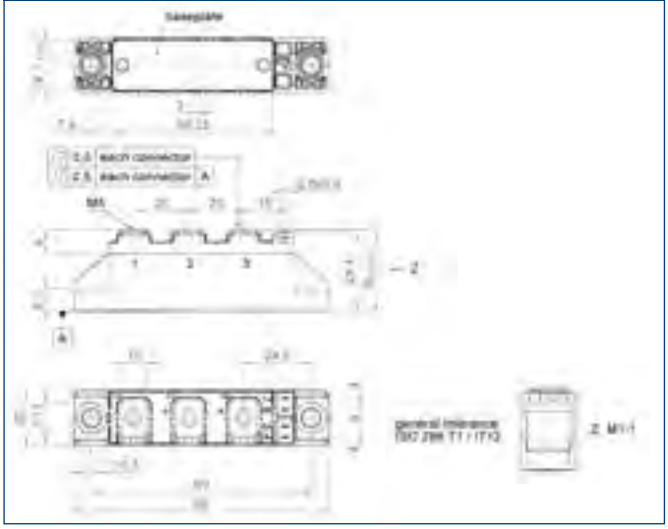
Screws for electrical connection of PowerBLOCK Thyristor and Diode Modules

screws must be ordered separately

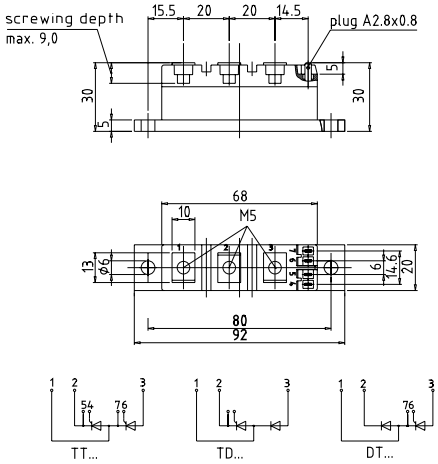
Base plate	screw	Salesname	packing unit	SP No
20 mm	M5x11	SHR DIN7985-M5X11	500	SP000485868
34mm	M6x15	SHR DIN7985-M6x15	500	SP000485872
50 mm	M8x18	SHR DIN933-M8X18	500	SP000485876
50 mm single	M10x23	SHR DIN933-M10X23	500	SP000485880
60 mm	M10x23	SHR DIN933-M10X23	500	SP000485880

Outlines

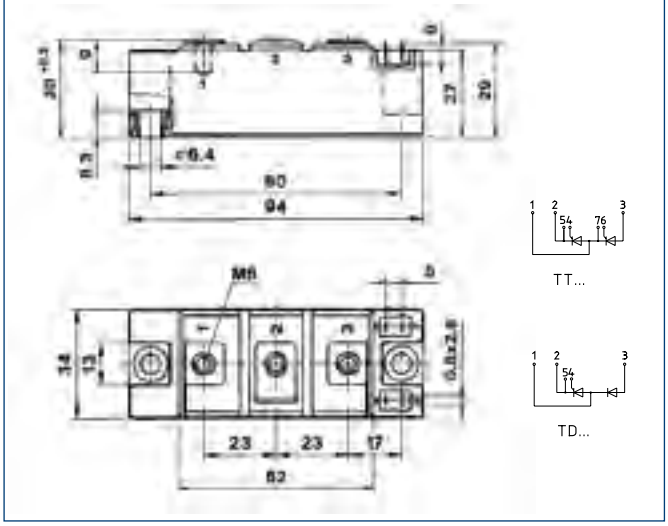
20 mm **TS20**



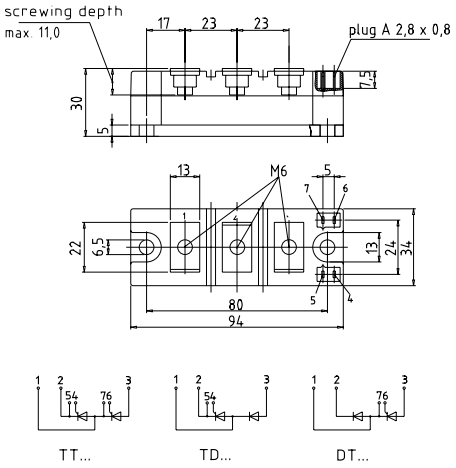
20 mm **TP20**



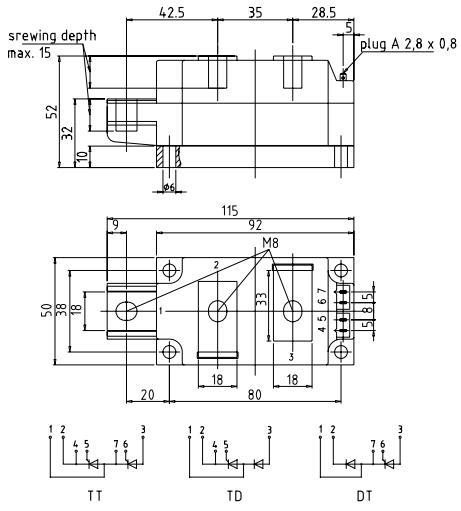
34 mm **TS34**



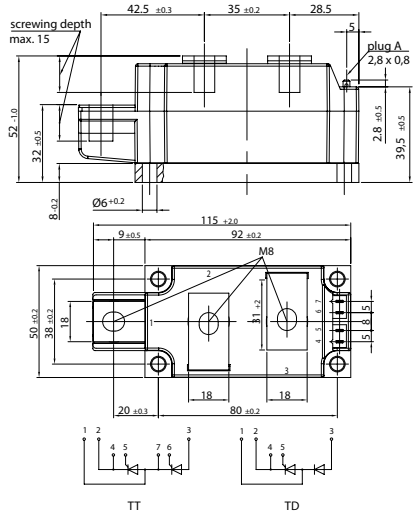
34 mm **TP34**



50 mm **TP50**

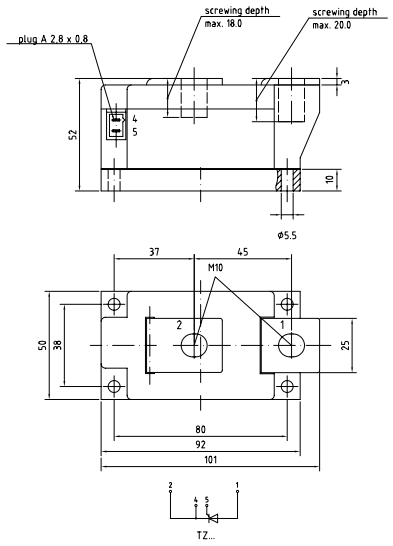


50 mm **TP50A**

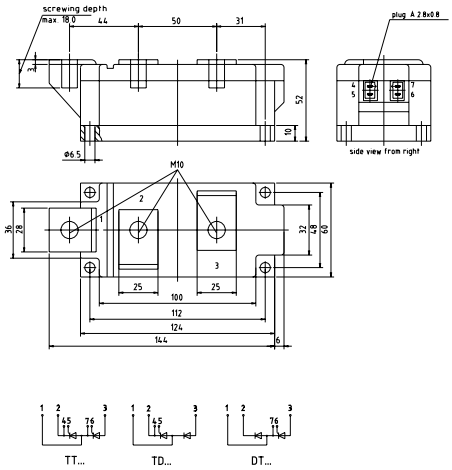


SCR
Diode Modules

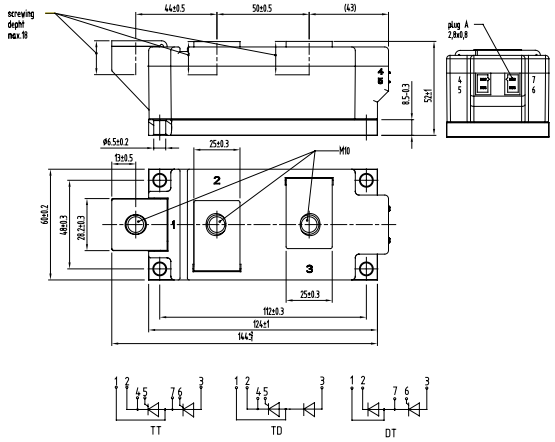
50 mm — TP50.1



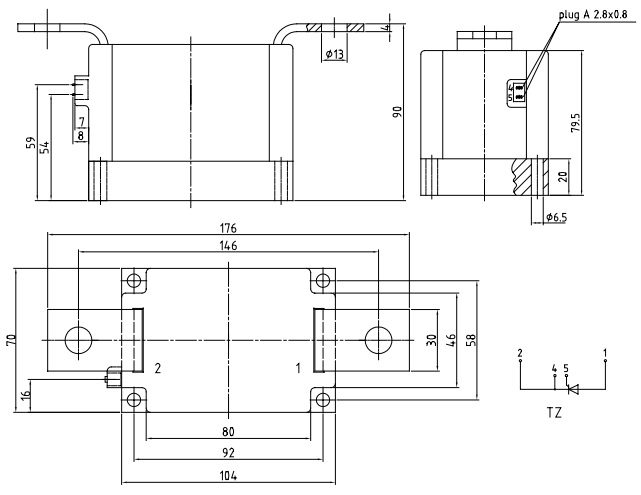
60 mm — TP60



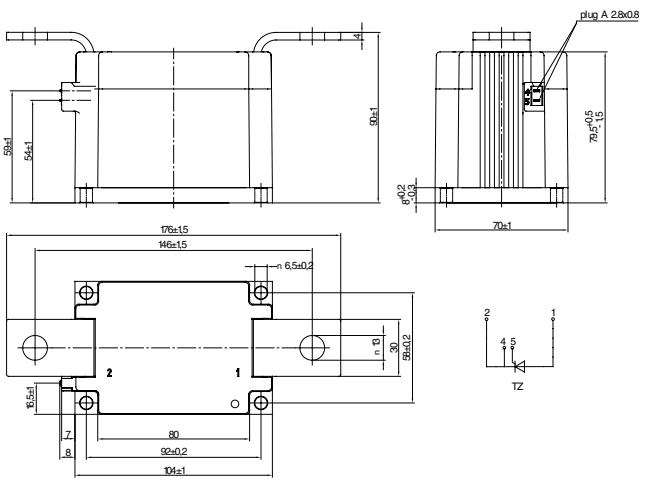
60 mm — TP60A



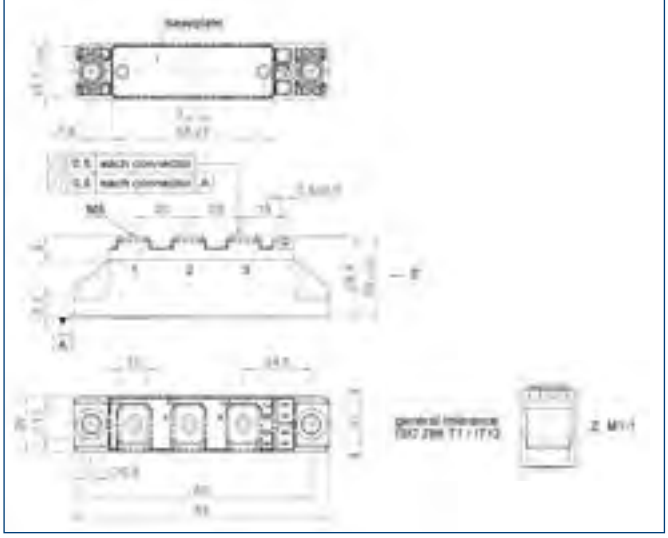
70 mm — TP70



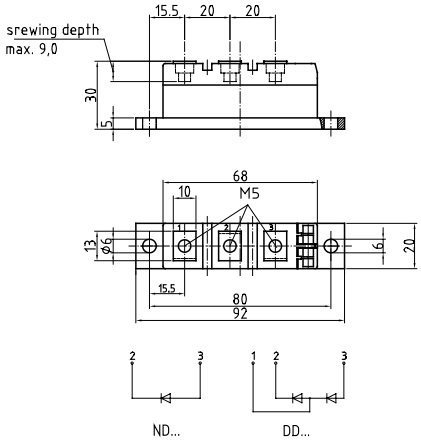
70 mm — TP70A



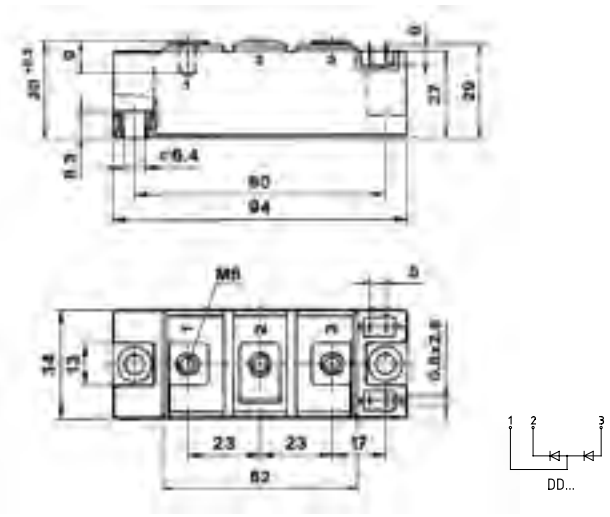
20 mm DS20



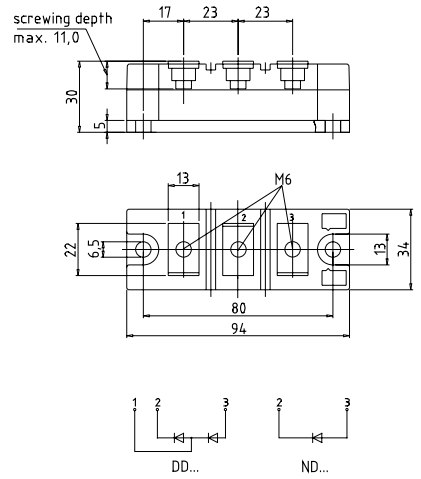
20 mm DP20



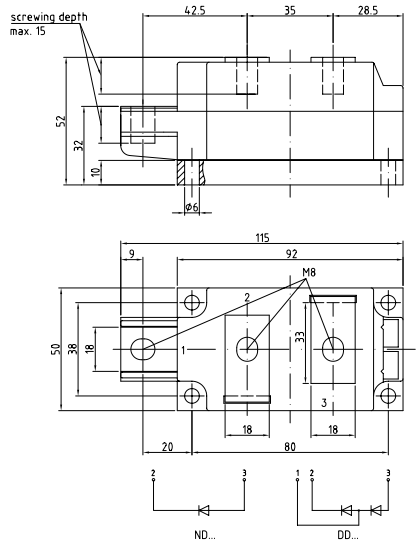
34 mm DS34



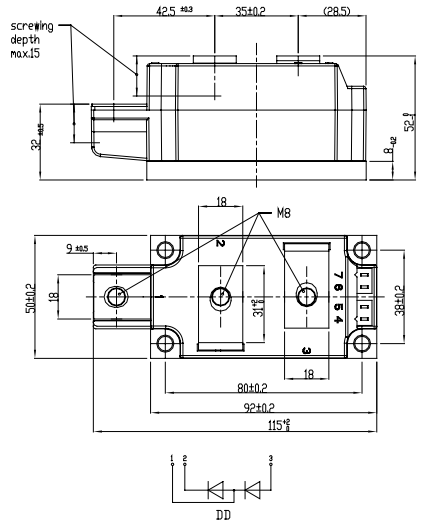
34 mm DP34



50 mm DP50

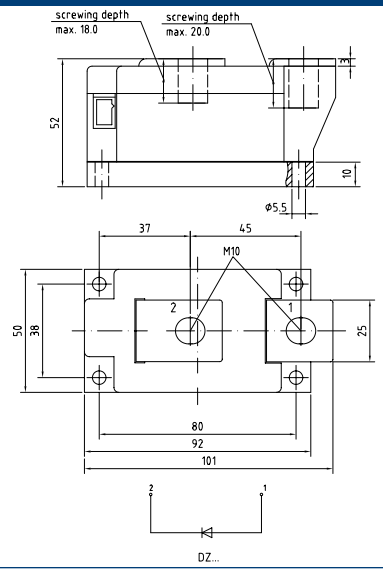


50 mm DP50A

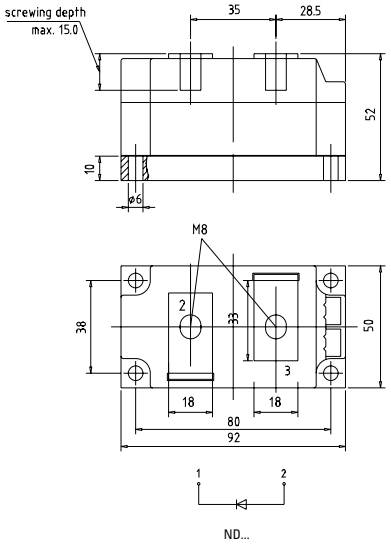


SCR
Diode Modules

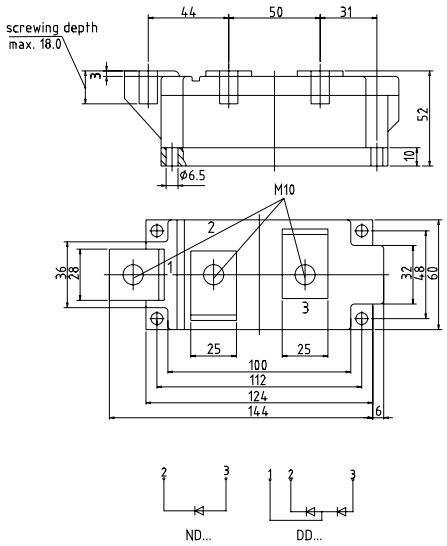
50 mm — DP50.1



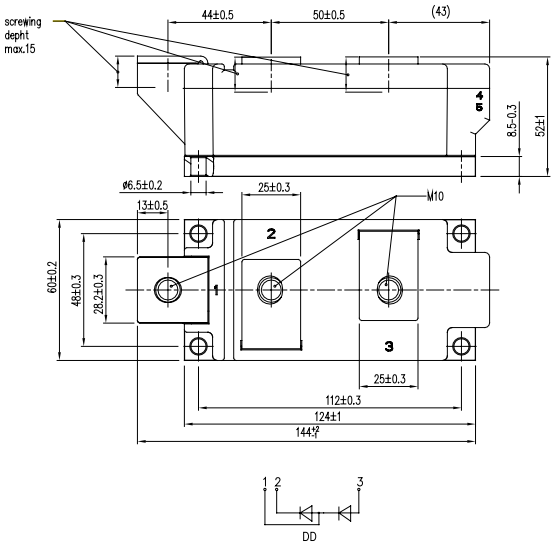
50 mm — DP50ND



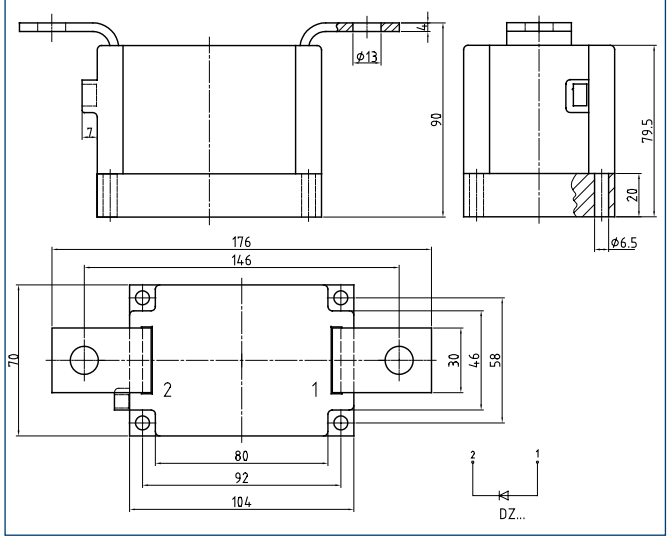
60 mm — DP60



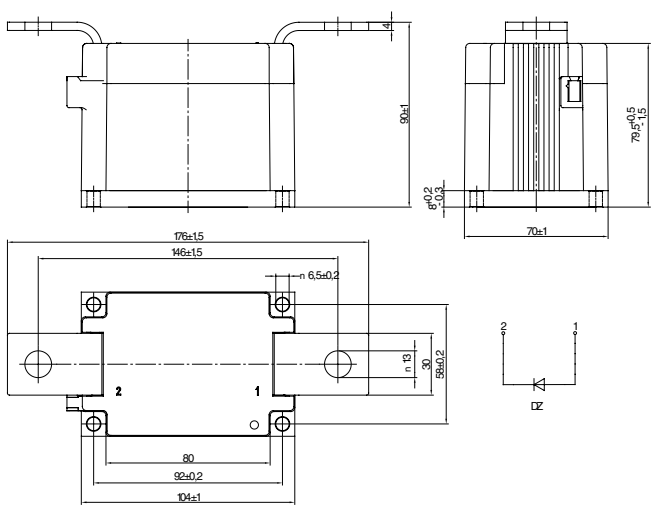
60 mm — DP60A



70 mm — DP70



70 mm — DP70A



Package Units

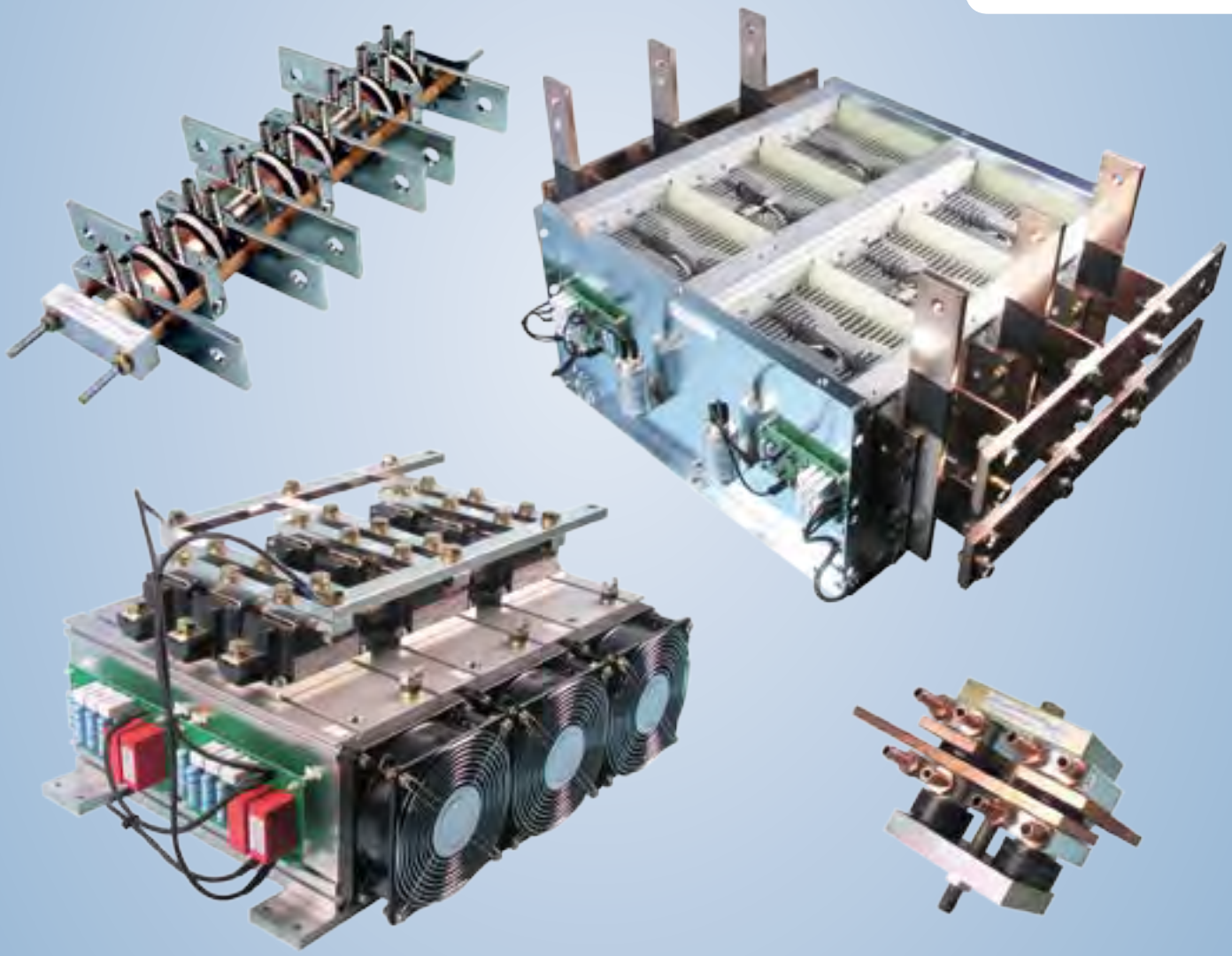
PowerBLOCK Modules

Outline	Packing units
DP20	15
DS20	12
DP34	8
DS34	10
DP50	3
DP50.1	3
DP50A	3
DP50ND	3
DP60	2
DP60A	2
DP70	1
DP70A	1
TP20	15
TS20	12
TP34	8
TS34	10
TP50	3
TP50.1	3
TP50A	3
TP60	2
TP60A	2
TP70	1
TP70A	1

Links

Application Notes, Product Briefs, Flyers and Brochures	Type	Redirects
Technical Information for Bipolar Semiconductors (english)	Application Note	www.infineon.com/technical-information-appnote
Technical Information for Bipolar Semiconductors (german)	Application Note	www.infineon.com/technical-information-appnote-german
IFBIP Company Brochure	Brochure	www.infineon.com/ifbip-company-brochure
IFBIP Web shop	Webpage	www.ifbip-shop.com
Thyristor and Diode Modules	Product Brief	www.infineon.com/thyristor-and-diodes-product-brief
Thyristor/Diode Modules in solder bond technology	Product Brief	www.infineon.com/solder-bond-modules-product-brief
Standard gate leads for PowerBLOCK modules	Product Information	www.infineon.com/gate-leads-for-powerblock-modules-product-information

Infineon Technologies Bipolar GmbH & Co. KG



BIP-Stack is back

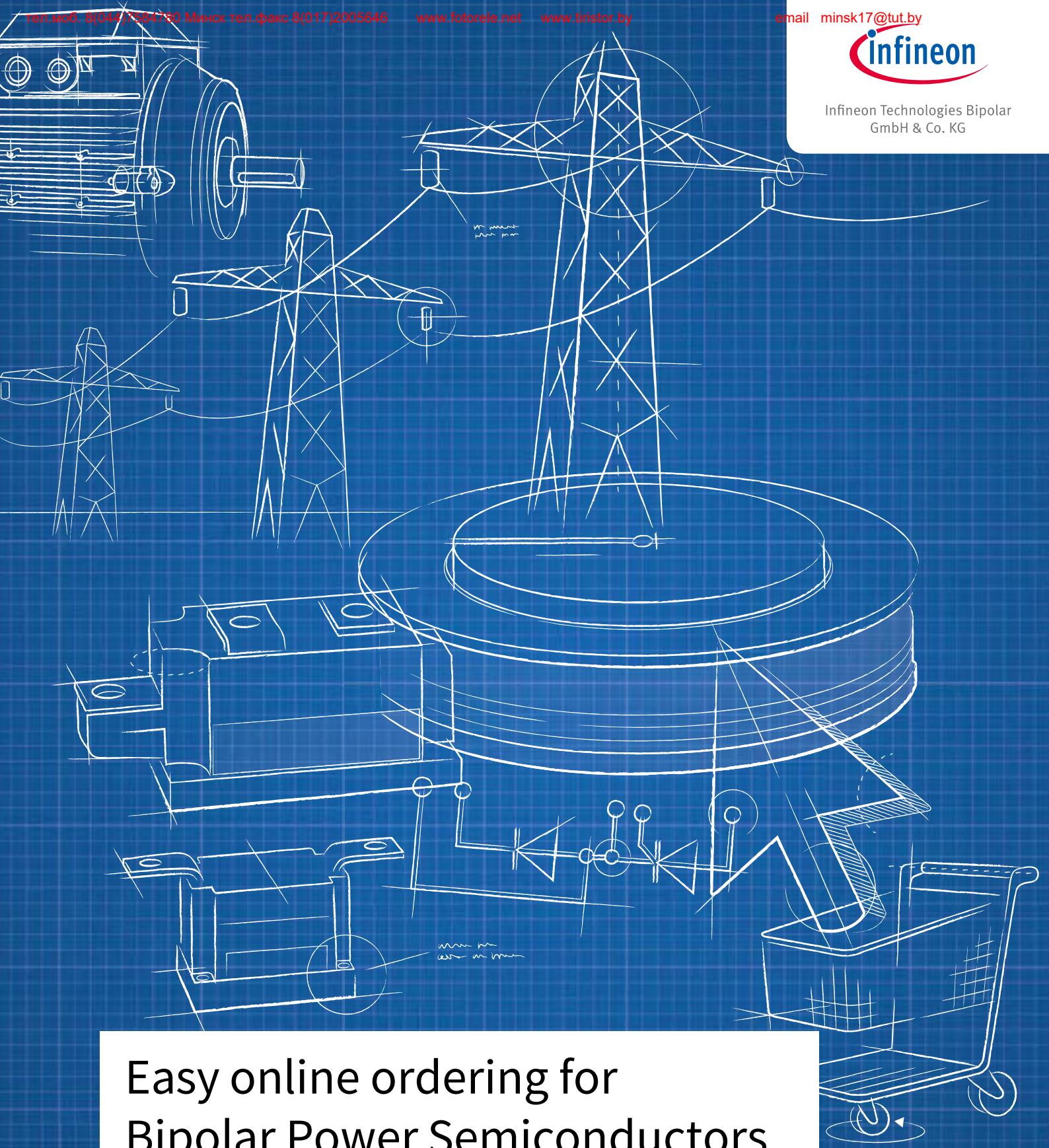
A summary of our contribution to your success:

- On request:
  - New designs
  - Modification of existing designs
  - Re-Vival of discontinued designs
  - Small volumes possible
- Available directly from manufacturer Infineon Technologies Bipolar GmbH & Co KG
- Over 30 years of experience
- Over 4000 designs in portfolio
- Assemblies and complete Stacks
- Direct technical support

www.infineon-bipolarshop.com/en/Stacks-Assemblies
support@infineon-bip.com

Drives

Infineon Technologies Bipolar GmbH & Co. KG



Easy online ordering for Bipolar Power Semiconductors

Discover modern power electronics components with convenient purchasing options – now available in the Infineon Bipolar Webshop

- 24/7 availability check and purchasing
- No minimum order quantity
- Free direct technical support
- Special offers and promotions
- Fast delivery across Europe directly from production site

Visit **infineon-bipolarshop.com**
or call **0800 951 951 951**

Now available on your **mobile device**!

Thyristor & Diode Presspacks

We offer a broad range of Press pack disc housings containing thyristor and diode pellets in a voltage range of 200 V to 9500 V and a current range of 56 A to 8400 A.

All discs are assembled in highly reliable, robust and hermetic sealed ceramic housings in order to avoid mechanical damages as well as almost any negative environmental influences as e.g. high humidity.

Beside the standard electrical triggered thyristor disc types for phase control applications and diode disc types for rectifier applications, we offer a range of discs as fast switching diodes, as well as soft and fast recovery freewheeling diodes for IGCT and IGBT switches.

As an extension, our product portfolio contains disc types as light triggered thyristors (LTT). These ceramic discs offer an easy way of triggering by using fiber optics to avoid insulation problems between load and trigger unit. Higher reliability thanks to less electronic components on high electric potential by using monolithic integrated protection functions (BoD and dv/dt protection). The power range covers blocking voltages from 5200 V up to 8000 V and current ratings from 550 A up to 3500 A.

Overview Phase Control Thyristors in Disc Housings

V_{DRM}

10000V												
9500 V					T600N							
8000 V					T 533 N					T1503N	T2563N	T4161N
										T2251N	T3011N	
										T1901N	T2871N	
7000 V	Light Triggered Thyristor (LTT) 							T1081N T1851N				
								T1201N T1651N				
6500 V	Electric Triggered Thyristor (ETT) 		T281N		T571N	T1060N	T1620N					
5200 V								T1551N T2351N		T3441N	T4003N	
								T1451N T2161N		T2851N	T4121N	
											T4021N	
4400 V					T731N			T1971N				
								T1401N				
4200 V					T730N		T1800N					
3800 V							T1930N					
3600 V				T860N T930N	T901N			T2001N		T3401N T3801N		
								T1601N				
2800 V		T360N			T1220N	T1590N	T2480N				T4301N T4771N	
2600 V			T460N	T660N T740N								
2200 V				T700N	T1040N T1330N	T1960N	T2810N					
1800 V	T300N T430N	T560N T640N	T590N T720N	T880N T830N T940N	T1190N T1500N	T2180N	T3160N					
1600 V	T390N T470N											
1400 V		T680N										
600 V	T580N T690N	T920N T1080N		T1410N	T2510N	T3710N						
Contact Ø	23mm	30 mm	34/36 mm		50 mm	65 mm	75 mm	86 mm		100 mm	115 mm	135 mm
Case Ø	42 mm	48 mm	58 mm		75 mm	100 mm	111 mm	120mm		150 mm	172 mm	202 mm

Phase Control Thyristors

up to 600 V

Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 50$ V	also available V_{DRM}, V_{RRM} [V]	I_{TSM} [kA] @10 ms. $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] @10 ms. $T_{vj\,max}$	V_T/I_T [V/kA] $T_{vj\,max}$	I_{TAVM} [A] @180 ° el sin T_c = 85 °C	V(TO) [V] @$T_{vj\,max}$	rT [mΩ] @$T_{vj\,max}$	tq [µs] typ.	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\,max}$ [°C]	Recommended Clamping force range [kN]	Outline / page
T 580 N06 TOF	600	200, 400	5.5	151	1.63/1.5	568	1.00	0.400	200	62.0	140	3.0...6.0	T42.14K0/8.8
T 690 N06 TOF	600	200, 400	6.7	225	1.76/2.0	694	0.80	0.440	200	51.0	140	4.0...8.0	T42.14K0/8.8
T 920 N06 TOF	600	200, 400	12.0	720	1.65/2.5	925	1.00	0.230	150	39.0	140	5.5...8.0	T48.14K0/8.8
T 1080 N06 TOF	600	200, 400	14.5	1050	1.81/3.5	1075	1.02	0.200	150	33.0	140	8.0...16.0	T48.14K0/8.8
T 1410 N06 TOF	600	200, 400	20.0	2000	1.50/4.5	1490	1.00	0.100	200	27.0	140	12.0...24.0	T58.14K0/8.8
T 2510 N06 TOF VT	600	200, 400	42.0	8820	1.22/6.0	2509	0.75	0.072	200	18.4	140	24.0...56.0	T75.26K0/8.9
T 3710 N06 TOF VT	600	200, 400	60.0	18000	1.50/15.0	3710	0.75	0.048	200	12.5	140	30.0...65.0	T100.26K0/8.9

up to 1800 V

Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	also available V_{DRM}, V_{RRM} [V]	I_{TSM} [kA] @10 ms, $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] @10 ms, $T_{vj\,max}$	V_T/I_T [V/kA] $T_{vj\,max}$	I_{TAVM} [A] @180 ° el sin T_c = 85 °C	V(TO) [V] @$T_{vj\,max}$	rT [mΩ] @$T_{vj\,max}$	tq [µs] typ.	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\,max}$ [°C]	Recomm. Clamping force range [kN]	Outline / page
T 160 N18 BOF	1800		3.4	58	1.96/0.6	160	1.08	1.530	200	150	125	na	TSW27/8.7
T 221 N18 BOF	1800		5.7	163	1.74/0.8	221	1.10	0.750	200	120	125	na	TSW41/8.7
T 300 N18 TOF	1800	1200, 1400, 1600	3.4	58	2.20/0.8	303	0.90	1.350	200	69	125	2.5...5.0	T42.14K0/8.8
T 345 N18 EOF	1800		6.9	238	1.56/1.0	345	0.80	0.700	250	80	125	na	TFL54/8.7
T 390 N16 TOF	1600	1200, 1400	4.3	91	2.00/1.1	381	0.85	0.900	200	62	125	3.0...6.0	T42.14K0/8.8
T 420 N18 TOF	1800	1200, 1400, 1600	6.4	205	2.10/1.5	424	0.90	0.750	220	56	125	5.0...10.0	T48.14K0/8.8
T 430 N18 TOF	1800	1200, 1400, 1600	4.6	106	2.07/1.2	433	0.85	0.900	250	51	125	4.0...8.0	T42.14K0/8.8
T 470 N16 TOF	1600	1200, 1400	6.4	202	1.85/1.2	470	0.80	0.750	250	51	125	4.0...8.0	T42.14K0/8.8
T 560 N18 TOF	1800	1200, 1400, 1600	6.9	238	1.92/1.6	559	0.80	0.600	250	44	125	5.0...10.0	T48.14K0/8.8
T 590 N18 TOF	1800	1200, 1400, 1600	8.0	320	2.15/2.4	588	0.80	0.500	250	45	125	6.0...12.0	T58.26K0/8.8
T 640 N18 TOF	1800	1200, 1400, 1600	8.0	320	2.15/2.4	644	0.80	0.500	250	39	125	6.0...12.0	T48.14K0/8.8
T 680 N14 TOF	1400	1200	9.5	451	1.75/2.0	681	0.80	0.420	250	39	125	6.0...12.0	T48.14K0/8.8
T 720 N18 TOF	1800	1200, 1400, 1600	12.5	781	1.94/3.0	718	0.85	0.350	250	38	125	9.0...18.0	T58.26K0/8.8
T 830 N18 TOF	1800	1200, 1400, 1600	12.5	781	1.94/3.0	844	0.85	0.300	250	30	125	9.0...18.0	T58.14K0/8.8
T 880 N18 TOF	1800	1200, 1400, 1600	15.5	1200	1.95/3.6	879	0.85	0.270	250	32	125	10.5...21.0	T58.26K0/8.8
T 940 N18 TOF	1800	1200, 1400, 1600	15.5	1200	1.95/3.6	959	0.85	0.270	250	28	125	10.5...21.0	T58.14K0/8.8
T 1190 N18 TOF VT	1800	1200, 1400, 1600	22.5	2530	2.05/5.4	1190	0.90	0.190	240	23	125	16.0...32.0	T75.26K0/8.9
T 1500 N18 TOF VT	1800	1200, 1400, 1600	33.5	5611	2.10/7.0	1500	0.90	0.150	240	18.4	125	24.0...56.0	T75.26K0/8.9
T 2180 N18 TOF VT	1800	1200, 1400, 1600	36.0	6480	2.05/8.0	2180	0.90	0.106	250	12.5	125	30.0...65.0	T100.26K0/8.9
T 3160 N18 TOF VT	1800	1200, 1400, 1600	57.0	16245	1.37/6.0	3160	0.85	0.082	250	8.5	125	42.0...95.0	T111.26K0/8.9

...VT -> VT-class printed on housing

Phase Control Thyristors

up to 3000 V

Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	also available V_{DRM}, V_{RRM} [V]	I_{TSM} [kA] @10 ms. $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] @10 ms. $T_{vj\,max}$	V_T/I_T [V/kA] $T_{vj\,max}$	I_{TAVM} [A] @180 ° el sin T_c = 85 °C	V(TO) [V] @$T_{vj\,max}$	rT [mΩ] @$T_{vj\,max}$	tq [µs] typ.	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\,max}$ [°C]	Recomm. Clamping force range [kN]	Outline / page
T 360 N28 TOF	2800	2000, 2200, 2400, 2600	4.5	101	2.88/1.1	360	1.10	1.600	350	44.0	125	5.0...10.0	T48.14K0/8.8
T 460 N26 TOF	2600	2200, 2400	9.0	405	2.75/2.0	459	1.00	0.840	300	45.5	125	7.5...17.5	T58.26K0/8.8
T 660 N26 TOF	2600	2200, 2400	11.5	660	2.53/2.85	659	1.00	0.500	300	33.0	125	10.5...21.0	T58.26K0/8.8
T 700 N22 TOF	2200	1800, 2000	12.2	744	2.32/2.85	699	0.95	0.450	300	32.0	125	10.5...21.0	T58.26K0/8.8
T 740 N26 TOF	2600	2200, 2400	11.5	660	2.53/2.85	745	1.00	0.500	300	28.0	125	10.5...21.0	T58.14K0/8.8
T 1040 N22 TOF VT	2200	2000	18.5	1711	1.53/2.0	1039	0.90	0.300	300	23.1	125	16.0...32.0	T75.26K0/8.9
T 1220 N28 TOF VT	2800	2000, 2200, 2400, 2600	22.5	2531	1.38/1.0	1220	1.00	0.275	350	18.4	125	20.0...45.0	T75.26K0/8.9
T 1330 N22 TOF VT	2200	1800, 2000	23.0	2645	1.13/1.0	1329	0.90	0.234	300	18.4	125	20.0...45.0	T75.26K0/8.9
T 1590 N28 TOF VT	2800	2200, 2400, 2600	28.0	3920	2.45/5.0	1590	1.10	0.237	400	12.5	125	30.0...65.0	T100.26K0/8.9
T 1960 N22 TOF VT	2200	1800, 2000	35.0	6125	2.20/8.0	1960	0.90	0.150	300	12.5	125	30.0...65.0	T100.26K0/8.9
T 2160 N28 TOF VT	2800	2000, 2200, 2400, 2600	40.0	8000	2.65/8.8	2400	1.05	0.154	400	8.5	125	42.0...95.0	T111.26K0/8.9
T 2480 N28 TOF VT	2800	2200, 2400, 2600	43.5	9460	1.43/3.0	2480	0.95	0.154	400	8.5	125	42.0...95.0	T111.26K0/8.9
T 2810 N22 TOF VT	2200	1600, 1800, 2000	50.0	12500	2.35/11.0	2810	0.90	0.112	300	8.5	125	42.0...95.0	T111.26K0/8.9
T 4301 N28 TOF VT	2800	2200, 2400, 2600	91.0	41400	1.20/4.0	4030	0.77	0.107	250	5.4	125	63.0...91.0	T150.35K/8.10
T 4771 N28 TOF VT	2800		91.0	41400	1.20/4.0	4340	0.77	0.107	250	4.8	125	63.0...91.0	T150.26K/8.10

...VT -> VT-class printed on housing

up to 4500 V

Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	also available V_{DRM}, V_{RRM} [V]	I_{TSM} [kA] @10 ms. $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] @10 ms. $T_{vj\,max}$	V_T/I_T [V/kA] $T_{vj\,max}$	I_{TAVM} [A] @180 ° el sin T_c = 85 °C	V(TO) [V] @$T_{vj\,max}$	rT [mΩ] @$T_{vj\,max}$	tq [µs] typ.	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\,max}$ [°C]	Recommended Clamping force range [kN]	Outline / page
T 730 N42 TOF VT	4200	3800, 4000	15.8	1250	3.40/3.5	730	1.20	0.570	400	21.5	120	18.0...43.0	T75.26K0/8.9
T 731 N44 TOH	4400		16.0	1280	1.86/1.2	870	1.08	0.650	500	18.5	125	15.0...24.0	T76.26K/8.9
T 860 N36 TOF VT	3600	3000, 3200	17.0	1445	3.18/3.8	860	1.08	0.500	400	21	125	20.0...45.0	T75.26K0/8.9
T 901 N36 TOF	3600	3200, 3500	17.0	1445	1.75/1.2	940	1.16	0.494	300	18.5	125	15.0...24.0	T76.26K/7.19
T 930 N36 TOF VT	3600	3200, 3400	17.5	1530	2.70/3.6	930	1.00	0.430	500	21.5	125	20.0...45.0	T75.26K0/8.9
T 1401 N42 TOH	4200		36.0	6480	1.95/2.0	1590	1.29	0.330	350	9.7	125	36.0…52.0	T120.35K/8.10
T 1601 N36 TOF	3600	4000	41.0	8400	1.50/2.0	1900	1.00	0.250	300	9.7	125	36.0...52.0	T120.35K/8.10
T 1800 N42 TOF	4200	2800,3200,3500	41.0	8405	1.65/2.0	1800	0.85	0.400	900	8.5	125	36.0...52.0	T111.26K0/8.9
T 1930 N38 TOF VT	3800		37.0	6850	2.90/8.0	2180	1.08	0.200	450	8.5	125	40.0...65.0	T111.26K0/8.9
T 1971 N44 TOH	4400	3200,3400,3600	36.0	6480	1.95/2.0	1710	1.29	0.330	350	8.6	125	42.0...95.0	T120.26K/8.9
T 2001 N36 TOF	3600	3400	41.0	8400	1.50/2.0	2040	1.00	0.250	300	8.7	125	36.0...52.0	T120.26K/8.9
T 3401 N36 TOF VT	3600	3100, 3200	87.0	37850	1.40/4.0	3560	0.82	0.145	300	5.4	125	63...91	T150.35K/8.10
T 3801 N36 TOF VT	3600		87.0	37850	1.40/4.0	3830	0.82	0.145	300	4.8	125	63...91	T150.26K/8.10

...VT -> VT-class printed on housing

Phase Control Thyristors

up to 5500 V

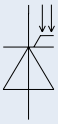
Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	I_{TSM} [kA] @10 ms, $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] @10 ms, $T_{vj\,max}$	V_T/I_T [V/kA] $T_{vj\,max}$	I_{TAVM} [A] @180 ° el sin T_c = 85 °C	V(TO) [V] @$T_{vj\,max}$	rT [mΩ] @$T_{vj\,max}$	$(di/dt)_{cr}$ [A/µs] @DIN IEC 747- 6	tq [µs] typ.	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\,max}$ [°C]	Outline / page
T 1451 N52 TOH	5200	43.0	9250	1.70/2.0	1660	0.92	0.370	300	450	9.7	125	T120.35K/8.10
T 1551 N52 TOH	5200	43.0	9250	1.70/2.0	1770	0.92	0.370	300	450	8.6	125	T120.26K/8.9
T 2161 N52 TOH	5200	54.0	14600	1.85/3.0	2070	0.81	0.360	300	450	7.5	125	T120.35K/8.10
T 2351 N52 TOH	5200	54.0	14600	1.85/3.0	2250	0.81	0.360	300	450	6.5	125	T120.26K/8.9
T 2851 N52 TOH	5200	79.0	31000	1.70/4.0	2980	0.77	0.235	300	600	5.4	125	T150.35K/8.10
T 3441 N52 TOH	5200	79.0	31000	1.70/4.0	3200	0.77	0.235	300	600	4.8	125	T150.26K/8.10
T 4021 N52 TOH	5200	100.0	50000	1.80/6.0	3880	0.93	1.450	300	550	4.5	125	T172.35K/8.10
T 4121 N52 TOH	5200	100.0	50000	1.80/6.0	4120	0.93	1.450	300	550	4.5	125	T172.26/8.10

up to 10000 V

	Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	I_{TSM} [kA] @10 ms, $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] @10 ms, $T_{vj\,max}$	V_T/I_T [V/kA] $T_{vj\,max}$	I_{TAVM} [A] @180 ° el sin T_c = 85 °C	V(TO) [V] @$T_{vj\,max}$	rT [mΩ] @$T_{vj\,max}$	$(di/dt)_{cr}$ [A/µs] @DIN IEC 747- 6	tq [µs] typ.	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\,max}$ [°C]	Outline / page
◆	T 280 N65 TOF	6500	4.8	115	2.75/0.5	280	1.35	2.800	150	1000	43.0	125	T58.26K0/8.8
◆	T 570 N65 TOF	6500	9.4	442	2.75/1.0	540	1.35	1.400	150	1000	23.0	125	T76.26K0/8.9
	T 1060 N65 TOF	6500	22.5	2530	3.5/3.0	1050	1.35	0.720	150	1000	11.8	125	T100.26K0/8.9
	T 1620 N65 TOF	6500	32.0	5120	3.3/4.5	1613	1.35	0.430	150	1000	8.1	125	T111.26K0/8.9
	T 1081 N70 TOH	7000	34.0	5780	2.7/2.0	1300	1.18	0.759	300	600	8.6	125	T120.26K/8.9
	T 1201 N70 TOH	7000	34.0	5780	2.7/2.0	1200	1.18	0.759	300	600	9.7	125	T120.35K/8.10
	T 1651 N70 TOH	7000	48.0	11500	2.65/3.0	1670	1.22	0.490	300	600	7.5	125	T120.35K/8.10
	T 1851 N70 TOH	7000	48.0	11500	2.65/3.0	1830	1.22	0.490	300	600	6.5	125	T120.26K/8.9
	T 1901 N80 TOH	8000	65.0	21100	3.0/4.0	2100	1.24	0.440	300	550	5.4	125	T150.35K/8.10
	T 2251 N80 TOH	8000	65.0	21100	3.0/4.0	2260	1.24	0.440	300	550	4.8	125	T150.26K/8.10
	T 2871 N80 TOH	8000	90.0	40500	2.95/5.0	2620	1.27	0.336	300	550	4.5	125	T172.35K/8.10
	T 3011 N80 TOH	8000	90.0	43250	2.95/5.0	2800	1.27	0.336	300	550	4.0	125	T172.26K/8.10
◆	T 4161 N80 TOH	8000	115.0	66120	2.12/6.0	3860	1.10	0.170	300	1000	3.5	125	T202.35K/8.10
	T 600 N95 TOH	9500	12.8	820	2.8/1.0	570	1.18	1.620	100	900	20.5	125	T75.26K0/8.9

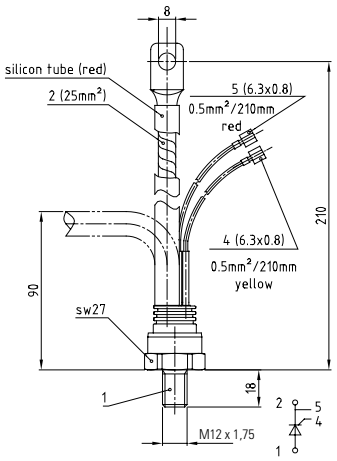
◆ New type

Light Triggered Thyristors

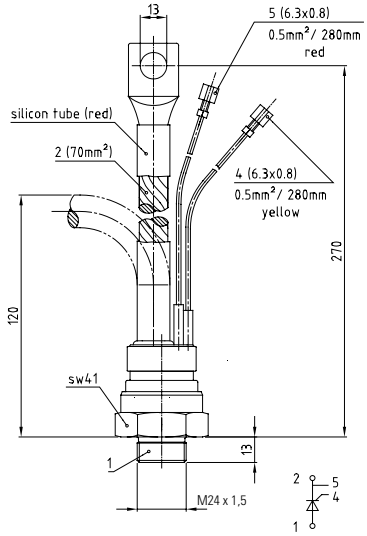
Type 	V_{BO} V	V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V	I_{TSM} [kA] @10ms, $T_{vj\,max}$	$\int i^2dt$ [$A^2s \cdot 10^3$] @10 ms, $T_{vj\,max}$	V_T/I_T [V/kA] @$T_{vj\,max}$	ITAVM [A/°C] @180 ° el sin $T_c = 85$ °C	V(TO) [V] @$T_{vj\,max}$	rT [mΩ] @$T_{vj\,max}$	$(di/dt)_{cr}$ [A/µs] @DIN IEC 747- 6	tq [µs] typ.	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\,max}$ [°C]	Recommended Clamping force range [kN]	Outline / page
T 533 N80 TOH	6500	8000	11.2	672	2.80/1.0	540	1.31	1.500	300	800	20	120	15.0...24.0	T76.35L/8.10
T 1503 N80 TOH	7500	8000	55	15125	3.00/4.0	1770	1.24	0.440	300	550	6.3	120	63.0...91.0	T150.40L/8.11
T 2563 N80 TOH	7500	8000	90	40500	2.95/5.0	2300	1.20	0.350	300	550	4.8	120	90.0...130.0	T172.40L/8.11
T 4003 N52 TOH	5200	5200	100	50000	1.80/6.0	3400	0.93	0.145	300	550	4.8	120	90.0...130.0	T172.40L/8.11

Outlines

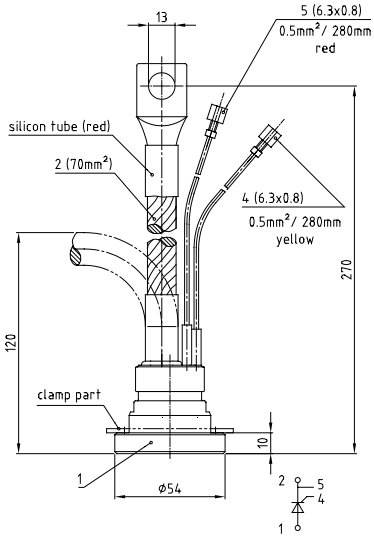
TSW27



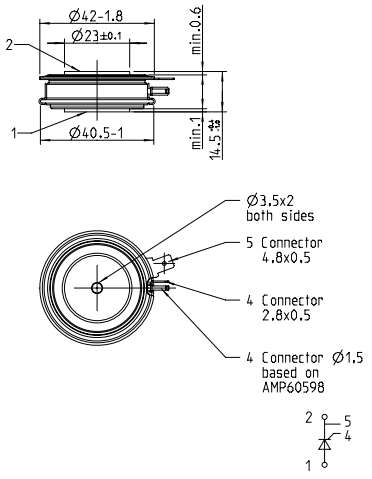
TSW41



TFL54



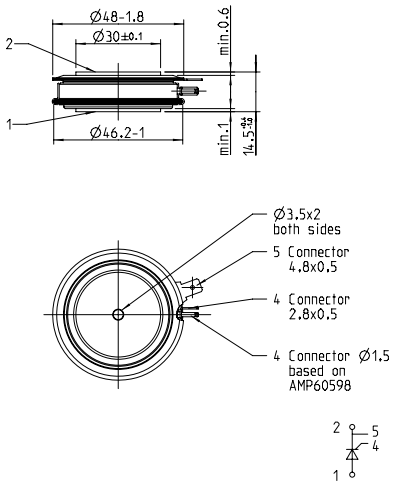
T42.14K0



strike distance: 5mm
creepage distance: 6mm

overall height based
on contact pressure

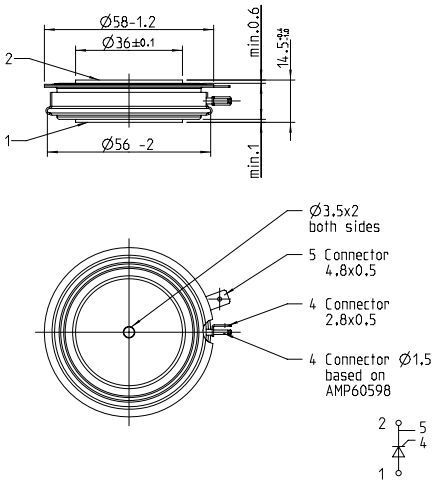
T48.14K0



strike distance: 5.0mm
creepage distance: 6.0mm

overall height based
on contact pressure

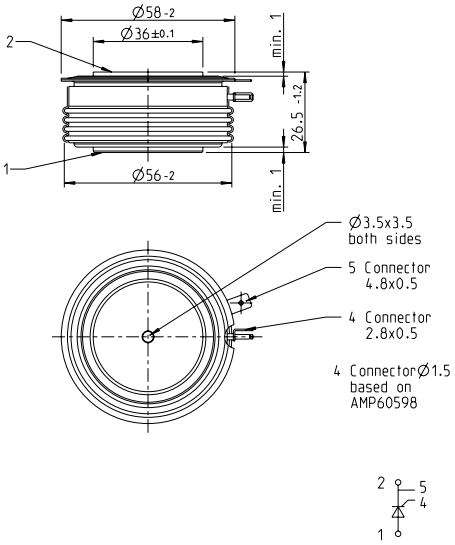
T58.14K0



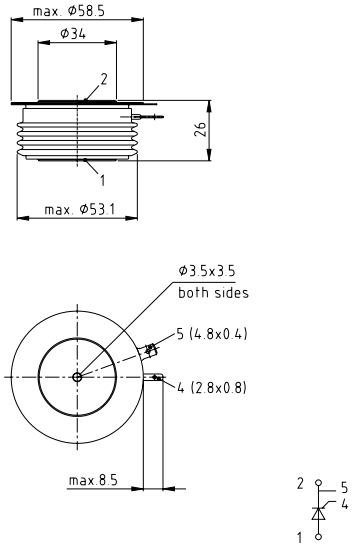
strike distance: 4mm
creepage distance: 5.0mm

overall height based
on contact pressure

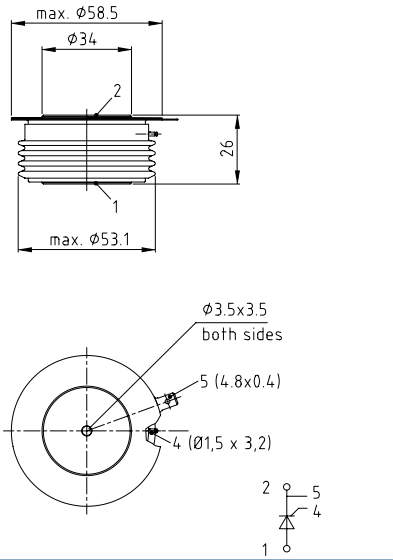
T58.26K0



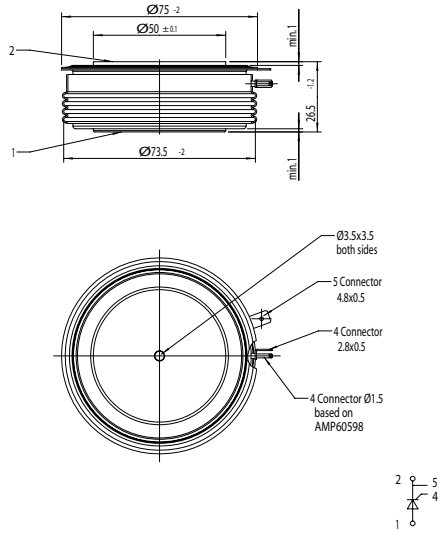
T58.26K



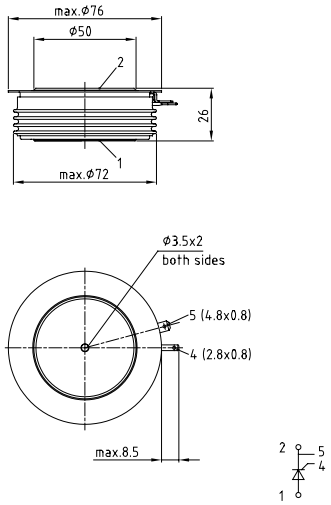
T58.26K1



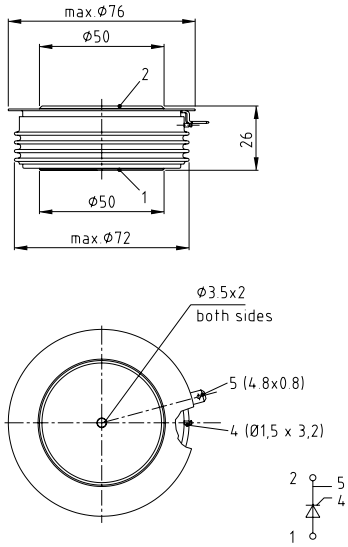
T75.26K0



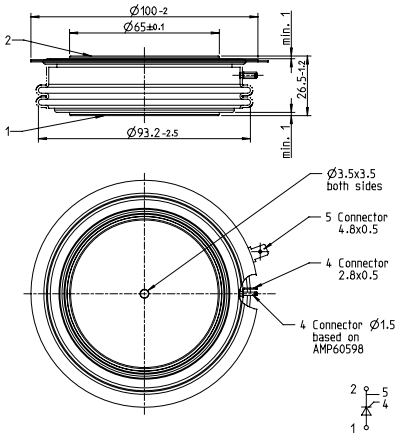
T76.26K



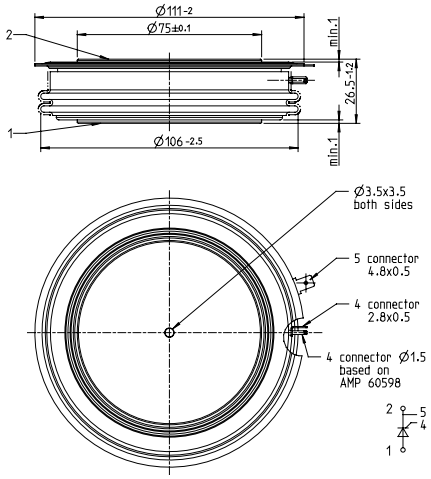
T75.26K1



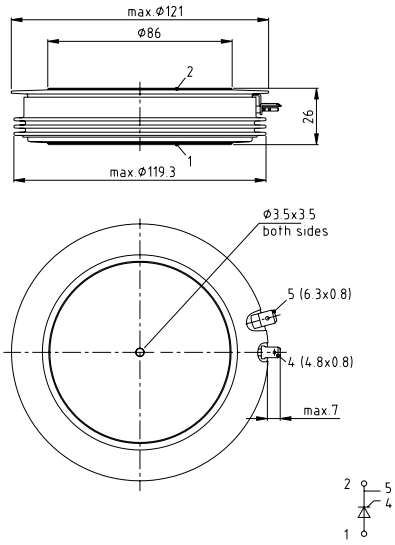
T100.26K0



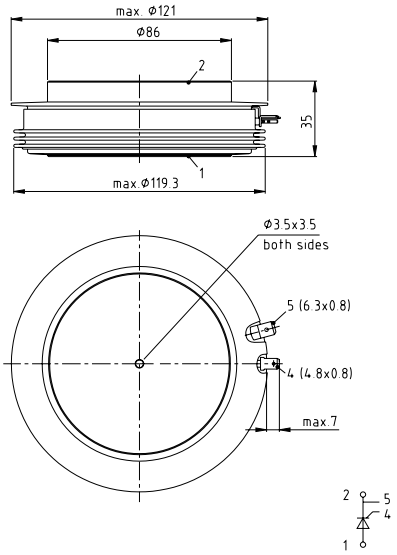
T111.26K0



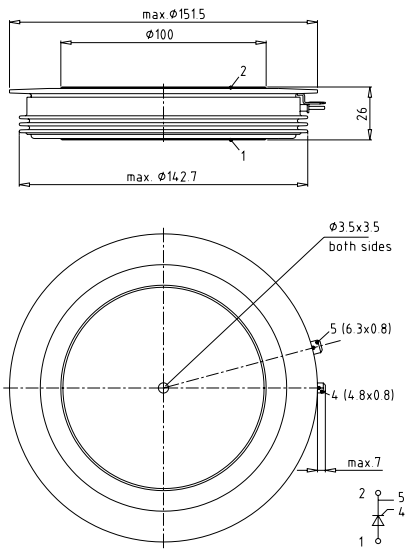
T120.26K



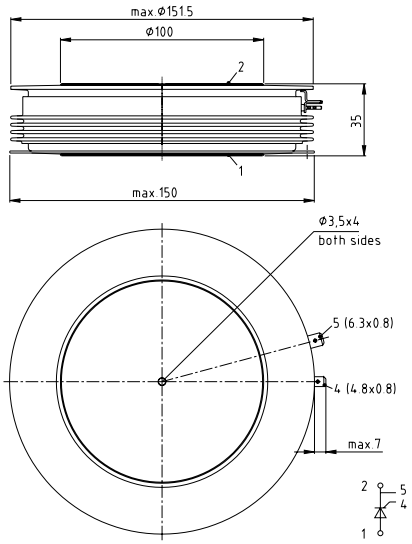
T120.35K



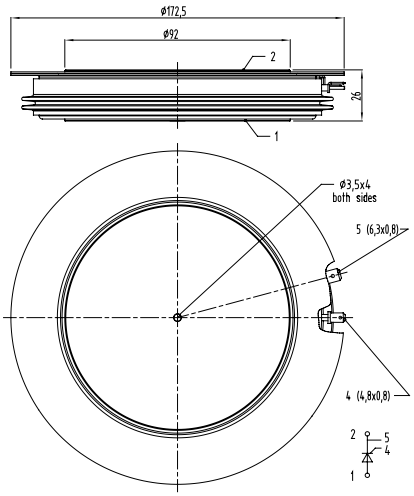
T150.26K



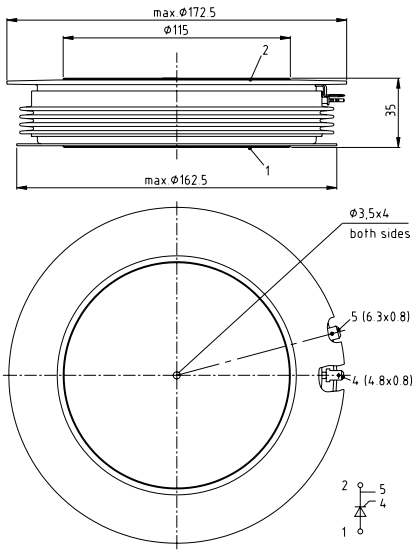
T150.35K



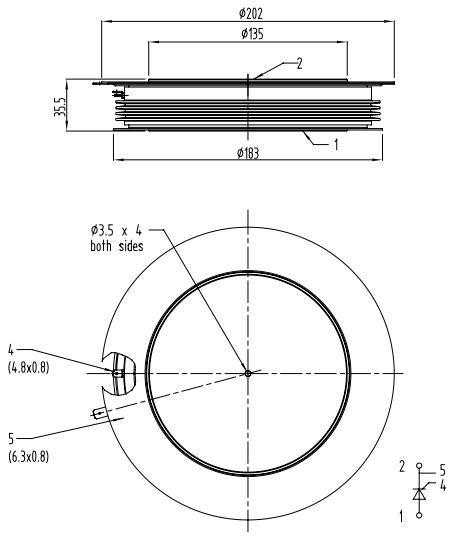
T172.26K



T172.35K

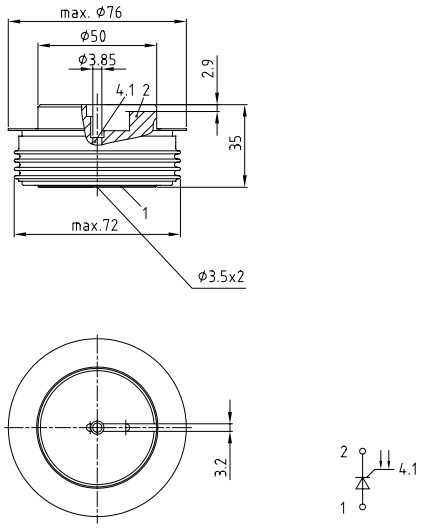


T202.35K

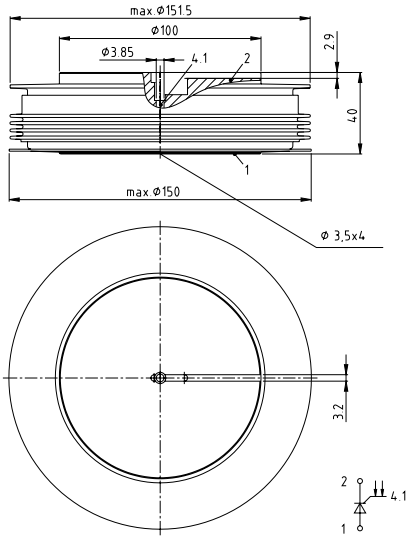


Presspacks

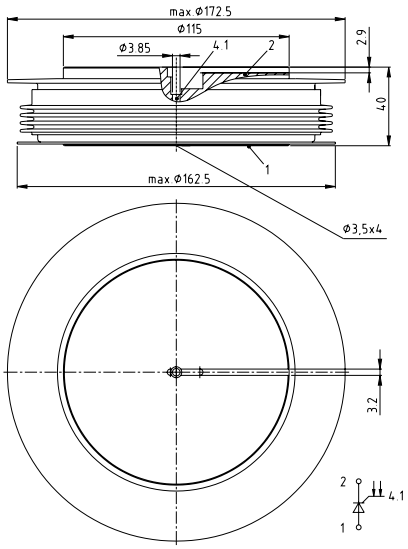
T76.35L



T150.40L



T172.40L



Package Units Thyristor Discs

Outline	Packing units
T42.14K0	18
T48.14K0	12
T58.14K0	9
T58.26K0	6
T75.26K0	4
T76.26K	4
T76.35L	4
T100.26K0	2
T111.26K0	2
T120.26K	2
T120.35K	2
T150.35K	1
T150.40L	1
T172.26K	1
T172.35K	1
T172.40L	1
T202.35K	1