



Short Form Catalog 2013

High Power Semiconductors for Industrial Applications





High power semiconductors for your industrial applications

What sets our products apart is based on a deep understanding of our customer's current and future application needs. The core values of quality, reliability, longevity and innovation are therefore an essential part of any new development and product improvement. This applies to our chip design, as well as our module development and manufacturing.

Accordingly, we offer a broad portfolio of power semiconductor products for industrial applications in the power range from 0.5 kW up to several MW. The applications range from traditional industrial drives and complete systems for renewable energies (wind and solar), transportation (traction, construction and utility vehicles), power supplies, welding applications, to medical equipment and Major Home Appliances.

With the short form catalogue (Kuka) 2013, we offer an overview of this range including many details. Through continuous dialogue with our customers we have once again increased the effectiveness this year.

The blue application pictures you'll find inside show the range of applications where the related products are used for. In the electronic version of this catalogue, at www.infineon.com/highpower, you can click on Short-links to find even more information useful for your application

We would welcome your information to assist in improving this catalogue. To do so, please send us your suggestions via the "Contact" form on www.infineon.com/highpower



Legend



Drives



CAV



Telecom



Wind



UPS



Home appliance



Solar



Welding



Server



Induction



SMPS



PC Power



Traction



Aircon



AC/DC

Thyristor & Diode Modules



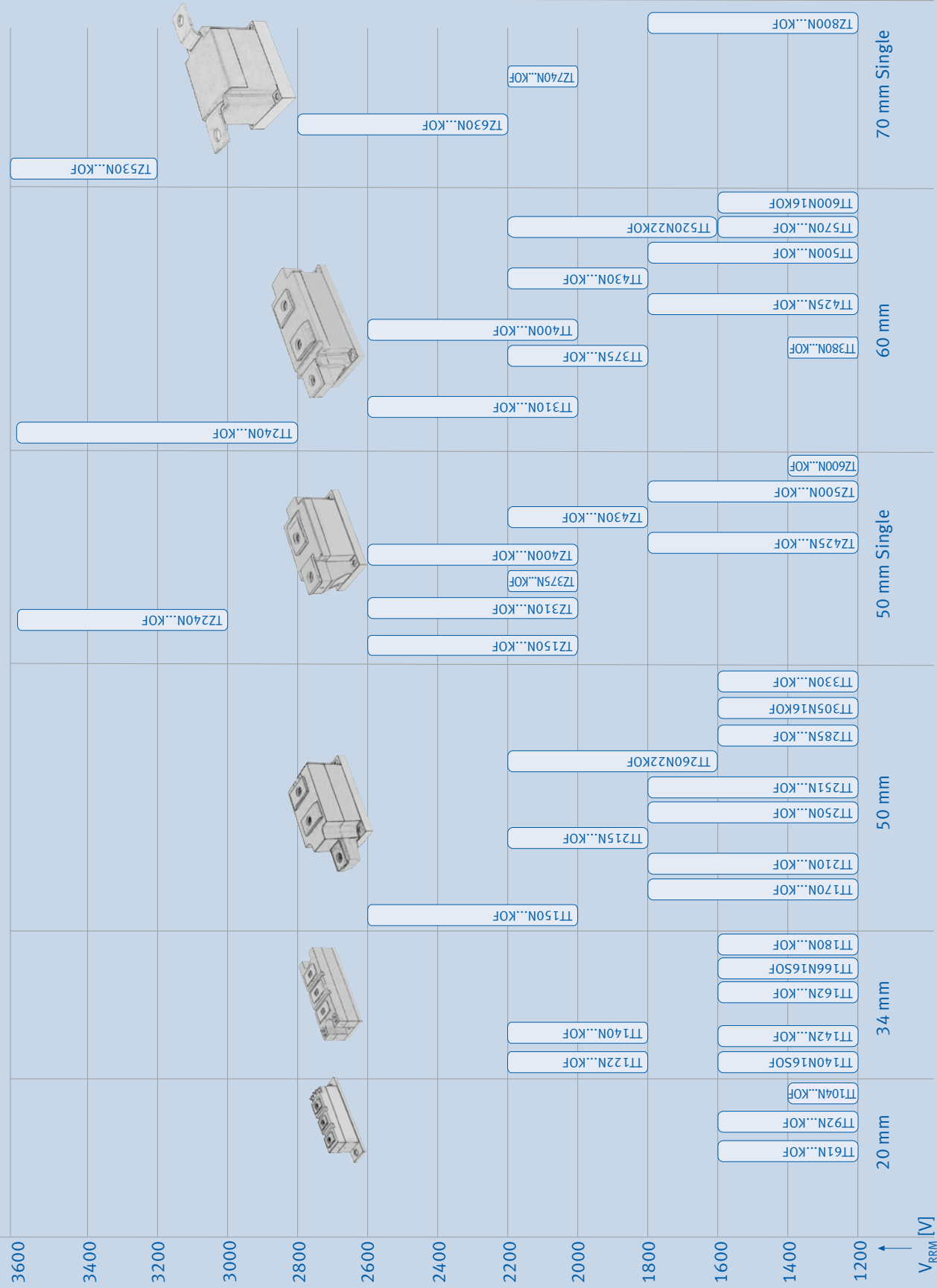
We offer a broad range of PowerBLOCK modules containing thyristor and diode pellets in a voltage range of 1200V to 4400V and a current range of 61A up to 1070A.

The modules are designed and assembled in high reliable pressure contact technology using an isolated copper base plate.

They are offered in several dual and single device topologies for almost 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.

Overview PowerBLOCK Thyristor Modules for Phase Control



PowerBLOCK

Thyristor Modules for Phase Control

													
Type		V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100 \text{ V}$	I_{TSM} [A] @10ms, $T_{vj \max}$	$\int i^2 dt$ [A ² s · 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	t_q [μs] typisch	R_{thJC} [K/W] @180° el sin	R_{thCK} [K/W] @180° el sin	$T_{vj \max}$ [°C]	Outline / page
Base plate = 20 mm	TT 61 N16 KOF	1600	1400	9,8	60/85	0,80	3,40	150	120	0,52	0,16	125	TP20/6.23
	TT 92 N16 KOF	1600	1800	16,2	92/85	0,85	2,15	150	150	0,37	0,10	130	TP20/6.23
	TT 104 N14 KOF	1400	1800	16,2	104/85	0,85	2,15	150	150	0,37	0,10	140	TP20/6.23
Base plate = 34 mm	TT 122 N22 KOF	2200	2950	43,5	122/85	1,00	2,15	100	300	0,20	0,06	125	TP34/6.23
	TT 140 N22 KOF	2200	3200	51,2	140/85	0,90	1,75	150	300	0,19	0,06	125	TP34/6.23
	◆ TT 140 N16 SOF	1600	data on request										TS34/6.23
	TT 142 N16 KOF	1600	4100	84,0	142/85	0,90	1,10	150	200	0,22	0,06	125	TP34/6.23
	◆ TT 166 N16 SOF	1600	data on request										TS34/6.23
	TT 162 N16 KOF	1600	4400	97,0	162/85	0,85	0,95	150	200	0,20	0,06	125	TP34/6.23
	TT 180 N16 KOF	1600	4100	84,0	180/85	0,85	0,90	150	200	0,20	0,06	130	TP34/6.23
Base plate = 50 mm	TT 150 N26 KOF	2600	4000	80	150/85	1,20	2,30	60	300	0,130	0,04	125	TP50/6.23
	■ TT 170 N18 KOF	1800	4600	106	170/85	0,95	1,00	150	250	0,170	0,04	125	TP50A/6.23
	TT 210 N18 KOF	1800	5800	168	210/85	1,00	0,85	150	200	0,130	0,04	125	TP50A/6.23
	TT 215 N22 KOF	2200	6300	198	215/85	0,95	0,92	100	300	0,130	0,04	125	TP50A/6.23
	TT 250 N18 KOF	1800	7000	245	250/85	0,80	0,70	150	250	0,130	0,04	125	TP50A/6.23
	TT 251 N18 KOF	1800	8000	320	250/85	0,80	0,70	250	250	0,130	0,04	125	TP50A/6.23
	TT 260 N22 KOF	2200	8000	320	260/85	0,85	0,64	250	250	0,120	0,04	130	TP50A/6.23
	TT285 N16 KOF	1600	8000	320	285/92	0,80	0,70	250	250	0,117	0,04	135	TP50A/6.23
	◆ TT 305 N16 KOF	1600	9000	400	305/85	0,80	0,58	250	250	0,120	0,04	130	TP50A/6.23
	TT 330 N16 KOF	1600	8000	320	330/85	0,80	0,60	250	250	0,117	0,04	135	TP50A/6.23
Base plate = 60 mm	■ TT 240 N36 KOF	3600	5500	151	240/85	1,17	1,70	100	350	0,078	0,02	125	TP60/6.24
	■ TT 310 N26 KOF	2600	9000	405	310/85	1,00	0,86	120	300	0,078	0,02	125	TP60/6.24
	■ TT 375 N22 KOF	2200	10600	561	375/85	0,85	0,56	120	300	0,078	0,02	125	TP60/6.24
	■ TT 380 N14 KOF	1400	11000	605	380/85	1,00	0,38	120	250	0,078	0,02	125	TP60/6.24
	TT 400 N26 KOF	2600	11000	605	400/85	1,00	0,50	150	300	0,065	0,02	125	TP60/6.24
	TT 425 N18 KOF	1800	12500	781	425/85	0,90	0,30	120	250	0,078	0,02	125	TP60/6.24
	TT 430 N22 KOF	2200	12000	720	430/85	0,95	0,45	150	300	0,065	0,02	125	TP60/6.24
	TT 500 N18 KOF	1800	14500	1051	500/85	0,90	0,27	200	250	0,065	0,02	125	TP60/6.24
	◆ TT 520 N22 KOF	2200	14500	1051	520/85	0,85	0,35	200	250	0,058	0,02	125	TP60A/6.24
	TT 570 N16 KOF	1600	14000	980	570/87	0,90	0,27	200	250	0,065	0,02	125	TP60/6.24
	◆ TT 600 N16 KOF	1600	17500	1531	600/85	0,80	0,26	200	250	0,058	0,02	125	TP60A/6.24

PowerBLOCK modules are UL recognized


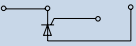
Common anode or cathode on request

◆ New type

■ Not for new design

PowerBLOCK

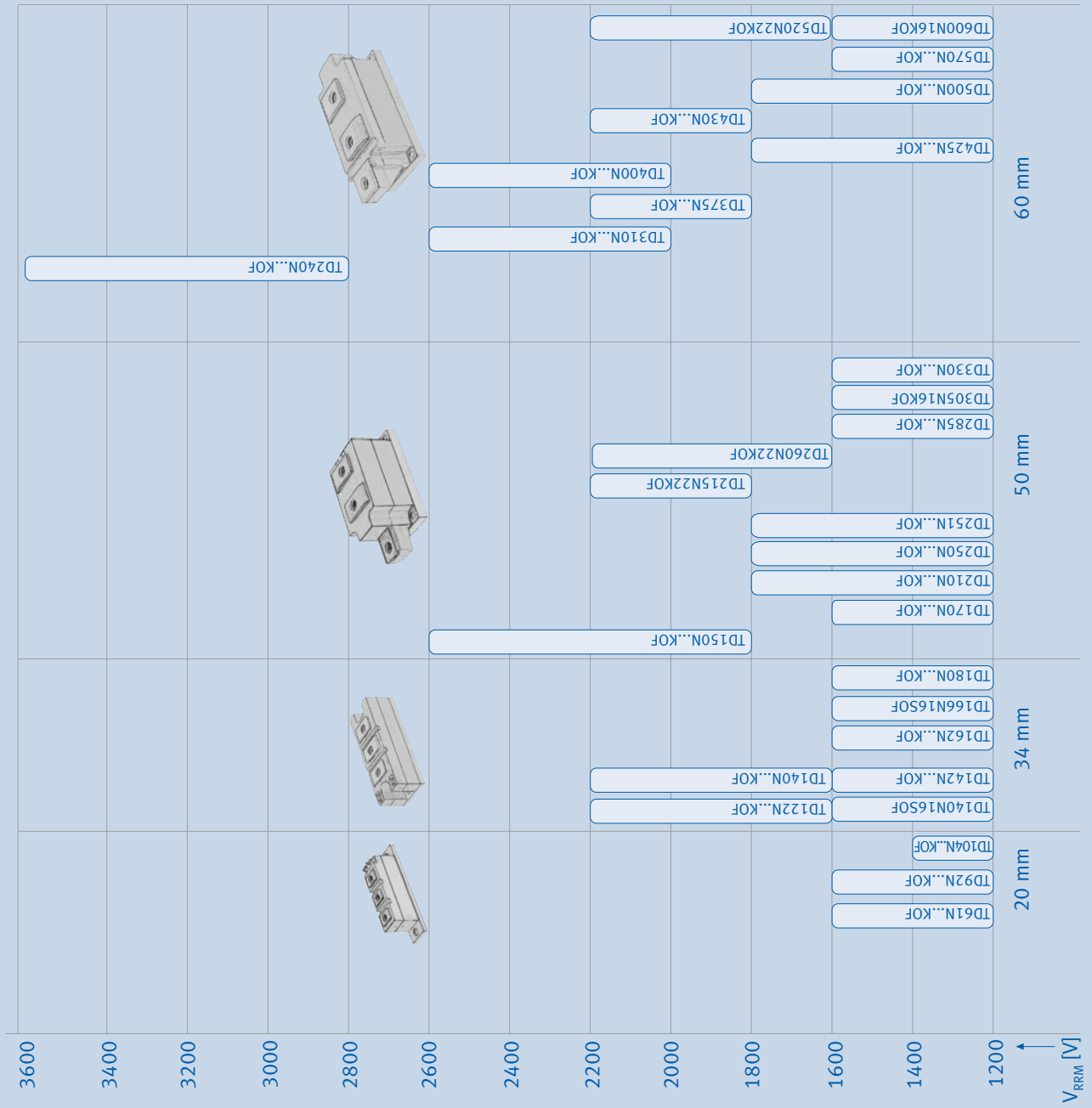
Single Thyristor Modules for Phase Control

													
 Type		V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100 \text{ V}$	I_{TSM} [A] @10ms, $T_{vj \text{ max}}$	$f t^2 dt$ [A ² s · 10 ³] 10 ms, $T_{vj \text{ max}}$	I_{TAVM}/T_c [A/°C] @180° el sin	$V_{(TO)}$ [V] @ $T_{vj \text{ max}}$	r_T [mΩ] @ $T_{vj \text{ max}}$	$(di/dt)_{cr}$ [A/μs] @DIN IEC 747- 6	t_q [μs] typisch	R_{thJC} [K/W] @180° el sin	R_{thCK} [K/W] @180° el sin	$T_{vj \text{ max}}$ [°C]	Outline / page
Base plate = 50 mm	■ TZ 150 N26 KOF	2600	4000	80	150/85	1,20	2,30	60	300	0,130	0,02	125	TP50.1/6.24
	TZ 240 N36 KOF	3600	5500	151	240/85	1,17	1,70	100	350	0,078	0,02	125	TP50.1/6.24
	TZ 310 N26 KOF	2600	8000	320	310/85	1,00	0,86	120	300	0,078	0,02	125	TP50.1/6.24
	TZ 400 N26 KOF	2600	11000	605	400/85	1,00	0,50	150	300	0,065	0,02	125	TP50.1/6.24
	TZ 425 N18 KOF	1800	12500	781	425/85	0,90	0,30	120	250	0,078	0,02	125	TP50.1/6.24
	TZ 430 N22 KOF	2200	12000	720	430/85	0,95	0,45	150	300	0,065	0,02	125	TP50.1/6.24
	TZ 500 N18 KOF	1800	14500	1051	500/85	0,90	0,27	200	250	0,065	0,02	125	TP50.1/6.24
	TZ 600 N16 KOF	1600	14000	980	600/85	0,90	0,27	200	250	0,065	0,02	125	TP50.1/6.24
Base plate = 70 mm	TZ 530 N36 KOF	3600	20000	2000	530/85	1,05	0,49	80	400	0,045	0,01	125	TP70/6.24
	TZ 630 N28 KOF	2800	23000	2650	630/85	0,95	0,37	150	400	0,042	0,01	125	TP70/6.24
	TZ 749 N22 KOF	2200	26500	3500	740/85	0,90	0,21	200	350	0,042	0,01	125	TP70/6.24
	TZ 800 N18 KOF	1800	30000	4500	800/85	0,85	0,17	200	240	0,042	0,01	125	TP70/6.24

PowerBLOCK modules are UL recognized


■ Not for new design

Overview PowerBLOCK Thyristor/Diode Modules for Phase Control



PowerBLOCK

Thyristor/Diode Modules for Phase Control

													
Type		V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100 \text{ V}$	I_{TSM} [A] @10ms, $T_{vj \text{ max}}$	$f_i^2 dt$ [A ² s · 10 ³] 10 ms, $T_{vj \text{ max}}$	I_{TAVM}/T_c [A/°C] @180° el sin	$V_{(TO)}$ [V] @ $T_{vj \text{ max}}$	r_T [mΩ] @ $T_{vj \text{ max}}$	$(di/dt)_{cr}$ [A/μs] @DIN IEC 747-6	t_q [μs] typisch	R_{thJC} [K/W] @180° el sin	R_{thCK} [K/W] @180° el sin	$T_{vj \text{ max}}$ [°C]	Outline / page
Base plate = 20 mm	TD 61 N16 KOF	1600	1400	9,8	60/85	0,80	3,40	150	120	0,52	0,16	125	TP20/6.23
	TD 92 N16 KOF	1600	1800	16,2	92/85	0,85	2,15	150	150	0,37	0,10	130	TP20/6.23
	TD 104 N14 KOF	1400	1800	16,2	104/85	0,85	2,15	150	150	0,37	0,10	140	TP20/6.23
Base plate = 34 mm	TD 122 N22 KOF	2200	2950	43,5	122/85	1,00	2,15	100	300	0,20	0,06	125	TP34/6.23
	TD 140 N22 KOF	2200	3200	51,2	140/85	0,90	1,75	150	300	0,19	0,06	125	TP34/6.23
	TD 140 N16 SOF	1600	data on request										TS34/6.23
	TD 142 N16 KOF	1600	4100	84	142/85	0,90	1,10	150	200	0,22	0,06	125	TP34/6.23
	TD 162 N16 KOF	1600	4400	97	162/85	0,85	0,95	150	200	0,20	0,06	125	TP34/6.23
	TD 166 N16 SOF	1600	data on request										TS34/6.23
	TD 180 N16 KOF	1600	4100	84	180/85	0,85	0,90	150	200	0,20	0,06	130	TP34/6.23
Base plate = 50 mm	TD 150 N26 KOF	2600	4000	80	150/85	1,20	2,30	60	300	0,130	0,04	125	TP50/6.23
	■ TD 170 N16 KOF	1600	4600	106	170/85	0,95	1,00	150	250	0,170	0,04	125	TP50A/6.23
	TD 210 N18 KOF	1800	5800	168	210/85	1,00	0,85	150	200	0,130	0,04	125	TP50A/6.23
	TD 215 N22 KOF	2200	6300	198	215/85	0,95	0,92	100	300	0,130	0,04	125	TP50A/6.23
	TD 250 N18 KOF	1800	7000	245	250/85	0,80	0,70	150	250	0,130	0,04	125	TP50A/6.23
	TD 251 N18 KOF	1800	8000	320	250/85	0,80	0,70	250	250	0,130	0,04	125	TP50A/6.23
	◆ TD 260N22 KOF	2200	8000	320	260/85	0,85	0,64	250	250	0,120	0,04	130	TP50A/6.23
	TD 285 N16 KOF	1600	8000	320	285/92	0,80	0,70	250	250	0,117	0,04	135	TP50A/6.23
	◆ TD 305 N16 KOF	1600	9000	400	305/85	0,80	0,58	250	250	0,120	0,04	130	TP50A/6.23
	TD 330 N16 KOF	1600	8000	320	330/85	0,80	0,60	250	250	0,117	0,04	135	TP50A/6.23
Base plate = 60 mm	■ TD 240 N36 KOF	3600	5500	151	240/85	1,17	1,70	100	350	0,078	0,02	125	TP60/6.24
	■ TD 310 N26 KOF	2600	9000	405	310/85	1,00	0,86	120	300	0,078	0,02	125	TP60/6.24
	TD 400 N26 KOF	2600	11000	605	400/85	1,00	0,50	150	300	0,065	0,02	125	TP60/6.24
	TD 425 N18 KOF	1800	12500	781	425/85	0,90	0,30	120	250	0,078	0,02	125	TP60/6.24
	TD 430 N22 KOF	2200	12000	720	430/85	0,95	0,45	150	300	0,065	0,02	125	TP60/6.24
	TD 500 N18 KOF	1800	14500	1051	500/85	0,90	0,27	200	250	0,065	0,02	125	TP60/6.24
	◆ TD 520 N22 KOF	2200	14500	1051	520/85	0,85	0,35	200	250	0,058	0,02	125	TP60A/6.24
	TD 570 N16 KOF	1600	14000	980	570/87	0,90	0,27	200	250	0,065	0,02	135	TP60/6.24
	◆ TD 600 N16 KOF	1600	17500	1531	600/85	0,80	0,26	200	250	0,058	0,02	125	TP60A/6.24

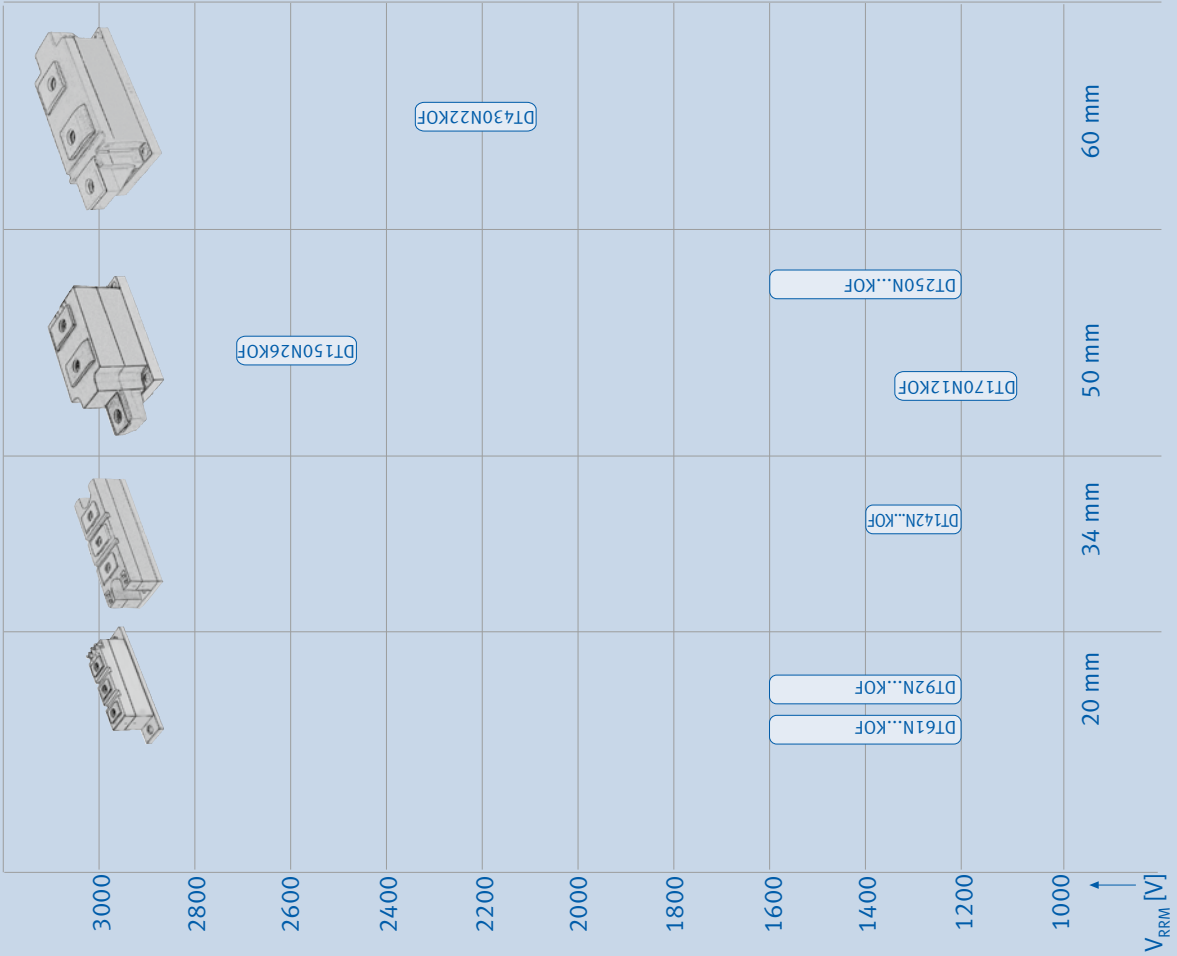
PowerBLOCK modules are UL recognized

Common anode or cathode on request

◆ New type


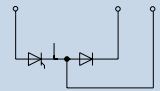
■ Not for new design

Overview PowerBLOCK Diode/Thyristor Modules for Phase Control



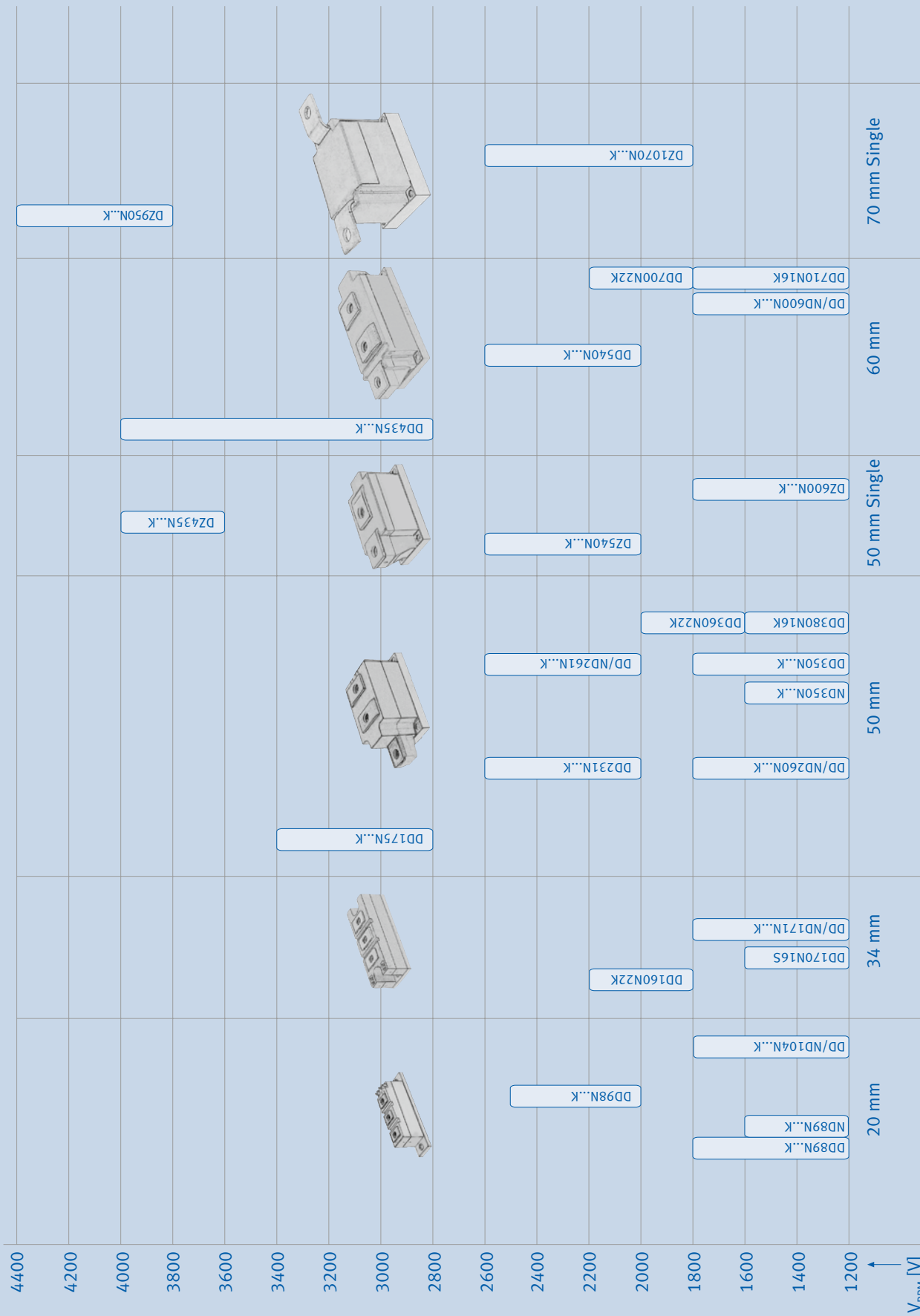
PowerBLOCK

Diode/Thyristor Modules for Phase Control

													
 Type		V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100 \text{ V}$	I_{TSM} [A] @10ms, $T_{vj \text{ max}}$	$f t^2 dt$ [A ² s · 10 ³] 10 ms, $T_{vj \text{ max}}$	I_{TAVM}/T_c [A/°C] @180° el sin	$V_{(TO)}$ [V] @ $T_{vj \text{ max}}$	r_T [mΩ] @ $T_{vj \text{ max}}$	$(di/dt)_{cr}$ [A/μs] @DIN IEC 747-6	t_q [μs] typisch	R_{thJC} [K/W] @180° el sin	R_{thCK} [K/W] @180° el sin	$T_{vj \text{ max}}$ [°C]	Outline / page
Base plate = 20 mm	DT 61 N16 KOF	1600	1400	9,8	60/85	0,80	3,40	150	120	0,52	0,16	125	TP20/6.23
	DT 92 N16 KOF	1600	1800	16,2	92/85	0,85	2,15	150	150	0,37	0,10	130	TP20/6.23
Base plate = 34 mm	DT 142 N12 KOF	1200	4100	84	142/85	0,90	1,10	150	200	0,22	0,06	125	TP34/6.23
Base plate = 50 mm	DT 150 N26 KOF	2600	4000	80	150/85	1,20	2,30	60	300	0,13	0,04	125	TP50/6.23
	DT 170 N12 KOF	1200	4600	106	170/85	0,95	1,00	150	250	0,17	0,04	125	TP50/6.23
	DT 250 N16 KOF	1600	7000	245	250/85	0,80	0,70	150	250	0,13	0,04	125	TP50/6.23
Base plate = 60 mm	DT 430 N22 KOF	2200	12000	720	430/85	0,95	0,45	150	300	0,065	0,02	125	TP60/6.24

PowerBLOCK modules are UL recognized

Overview PowerBLOCK Diode Modules for Phase Control



PowerBLOCK

Rectifier Diode Modules



Type		V_{RRM} [V]	I_{FSM} [A] @10 ms, $T_{vj\ max}$	$\int i^2 dt$ [A ² s · 10 ³] @10 ms, $T_{vj\ max}$	I_{FAVM}/T_c [A] @180° el sin	$V_{(TO)}$ [V] $T_{vj\ max}$	r_T [mΩ] $T_{vj\ max}$	R_{thjc} [K/W] @180° el sin	R_{thch} [K/W] @180° el sin	$T_{vj\ max}$ [°C]	Outline / page
Base plate = 20 mm	DD 89 N18 K	1800	2400	28,8	89/100	0,75	2,3	0,45	0,10	150	DP20/6.25
	ND 89 N16 K	1600	2400	28,8	89/100	0,75	2,3	0,45	0,10	150	DP20/6.25
	DD 98 N25 K	2500	2000	20	98/100	0,82	2,0	0,39	0,10	150	DP20/6.25
	DD 104 N18 K	1800	2500	31,25	104/100	0,70	2,1	0,39	0,10	150	DP20/6.25
	ND 104 N18 K	1800	2500	31,25	104/100	0,70	2,1	0,39	0,10	150	DP20/6.25
Base plate = 34 mm	DD 160 N22 K	2200	4600	105,8	160/100	0,80	1,00	0,26	0,06	150	DP34/6.25
	DD 170 N16 S	1600	data on request								DS34/6.25
	DD 171 N18 K	1800	5600	157	170/100	0,75	0,8	0,26	0,06	150	DP34/6.25
	ND 171 N18 K	1800	5600	157	170/100	0,75	0,8	0,26	0,06	150	DP34/6.25
Base plate = 50 mm	DD 175 N34 K	3400	4000	80	175/100	0,90	1,80	0,17	0,04	150	DP50/6.25
	DD 231 N26 K	2600	6400	205	231/100	0,80	1,84	0,17	0,04	150	DP50/6.25
	DD 260 N18 K	1800	8300	344	260/100	0,70	0,68	0,17	0,04	150	DP50/6.25
	ND 260 N16 K	1600	8300	344	260/100	0,70	0,68	0,17	0,04	150	DP50ND/6.26
	DD 261 N24 K	2400	8300	344	260/100	0,70	0,68	0,17	0,04	150	DP50/6.25
	ND 261 N26 K	2600	8300	344	260/100	0,70	0,68	0,17	0,04	150	DP50ND/6.26
	DD 285 N04 K	400 ^{*)}	8300	344	285/100	0,75	0,40	0,17	0,04	150	DP50/6.25
	DD 350 N18 K	1800	11000	605	350/100	0,75	0,40	0,13	0,04	150	DP50/6.25
	ND 350 N18 K	1800	11000	605	350/100	0,75	0,40	0,13	0,04	150	DP50ND/6.26
	◆ DD 380 N 16 K	1600	11500	660	380/100	0,75	0,32	0,125	0,04	150	DP50A/6.25
	◆ DD 360 N 22 K	2200	11500	550	360/100	0,75	0,40	0,125	0,04	150	DP50A/6.25
	DZ 435 N40 K	4000	12000	720	435/100	0,84	0,60	0,078	0,02	150	DP50.1/6.26
	DZ 540 N26 K	2600	14000	980	540/100	0,78	0,31	0,078	0,02	150	DP50.1/6.26
	DZ 600 N18 K	1800	19000	1805	600/100	0,75	0,22	0,078	0,02	150	DP50.1/6.26
Base plate = 60 mm	DD 435 N40 K	4000	12000	720	435/100	0,84	0,60	0,078	0,02	150	DP60/6.25
	DD 540 N26 K	2600	14000	980	540/100	0,78	0,31	0,078	0,02	150	DP60/6.25
	DD 600 N18 K	1800	19000	1800	600/100	0,75	0,22	0,078	0,02	150	DP60/6.25
	ND 600 N18 K	1800	19000	1800	600/100	0,75	0,22	0,078	0,02	150	DP60/6.25
	◆ DD 700 N22 K	2200	21000	2205	700/100	0,78	0,19	0,065	0,02	150	DP60A/6.26
	◆ DD 710 N16 K	1600	22000	2420	710/100	0,75	0,145	0,065	0,02	150	DP60A/6.26
Base plate = 70 mm	DZ 950 N44 K	4400	29000	4205	950/100	0,85	0,28	0,042	0,01	150	DP70/6.26
	DZ 1070 N26 K	2600	35000	6125	1070/100	0,8	0,17	0,045	0,01	160	DP70/6.26






PowerBLOCK modules are UL recognized
Common anode or cathode on request

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

◆ New type

PowerBLOCK

Fast Diode Modules

<div></div>												
Type		V_{RRM} [V] $V_{RSM} = V_{RRM} + 100\text{ V}$	I_{FSM} [A] @10ms, $T_{vj\text{ max}}$	$\int i^2 dt$ [A ² s · 10 ³] @10ms, $T_{vj\text{ max}}$	I_{FAVM}/T_c [A/°C] @180° el sin	$V_{(TO)}$ [V] @ $T_{vj\text{ max}}$	r_T [mΩ] @ $T_{vj\text{ max}}$	I_{RM} [A] @ $T_{vj\text{ max}}$ di/dt = 100 A/μs	R_{thjc} [K/W] @180° el sin	R_{thch} [K/W] @180° el sin	$T_{vj\text{ max}}$ [°C]	Outline / page
Base plate = 20 mm	DD 46 S12 K	1200 ^{*)}	820	3,6	45/85	0,9	3,9		0,68	0,16	125	DP20/6.25
	DD 61 S14 K	1400	1600	12,8	61/100	1	2,2	82	0,62	0,16	150	DP20/6.25
	DD 81 S14 K	1400	1900	18,1	81/100	0,95	1,7	87	0,48	0,16	150	DP20/6.25
	DD 82 S10 K	1000 ^{*)}	1900	18,1	81/100	0,95	1,7	65	0,48	0,16	150	DP20/6.25
Base plate = 50 mm	DD 230 S26 K	2600	7500	281	230/100	1,0	0,8		0,15	0,04	150	DP50/6.25
	DD 241 S14 K	1400 ^{*)}	7500	281	240/100	1,1	0,5	135	0,15	0,04	150	DP50/6.25
	ND 241 S14 K	1400 ^{*)}	7500	281	240/100	1,1	0,5	135	0,15	0,04	150	DP50ND/6.26
	DD 242 S10 K	1000 ^{*)}	7500	281	240/100	1,1	0,5	98	0,15	0,04	150	DP50/6.25
	ND 242 S10 K	1000 ^{*)}	7500	281	240/100	1,1	0,5	98	0,15	0,04	150	DP50ND/6.26

PowerBLOCK modules are UL recognized

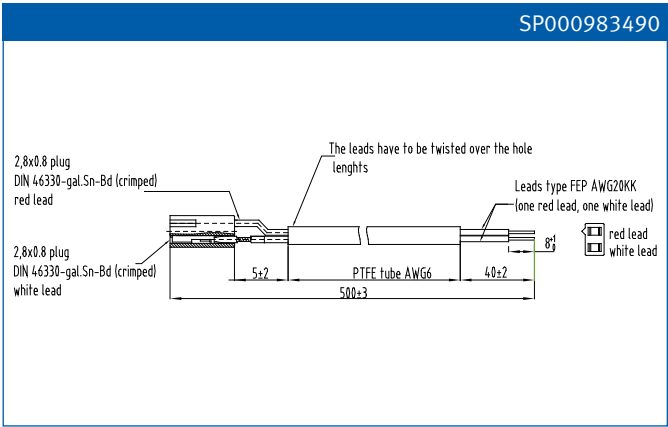
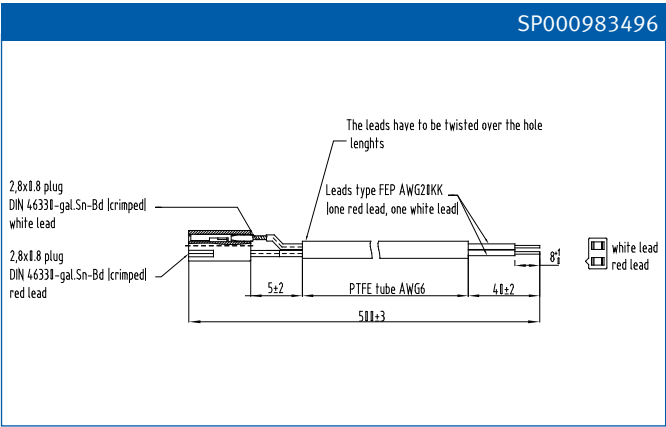
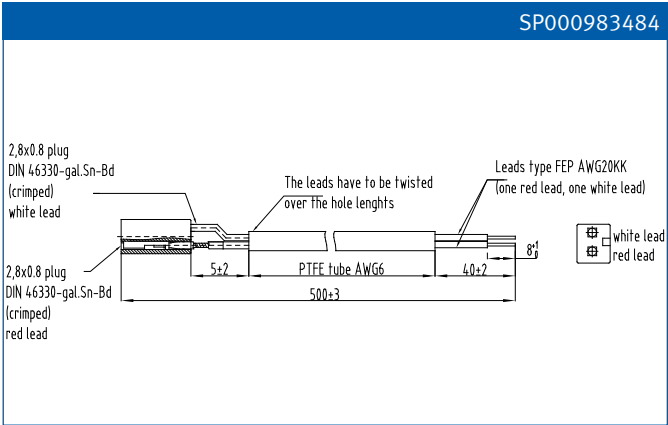
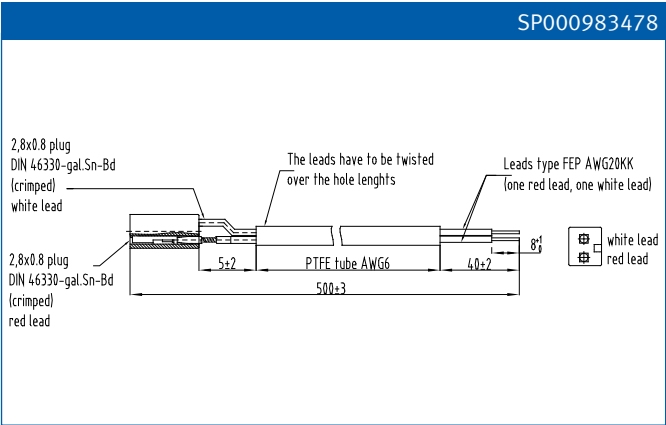
Common anode or cathode on request

^{*)} $V_{RRM} \leq 1000\text{ V} : V_{RSM} = V_{RRM} + 50\text{ V}$

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	G1/K1	red	white	500	SP000983496
70 single	Gatelead L=500 PB34-70 G2/K2	5/4	G1/K1	red	white	500	SP000983490



Screws for electrical connection of PowerBLOCK Thyristor and Diode Modules

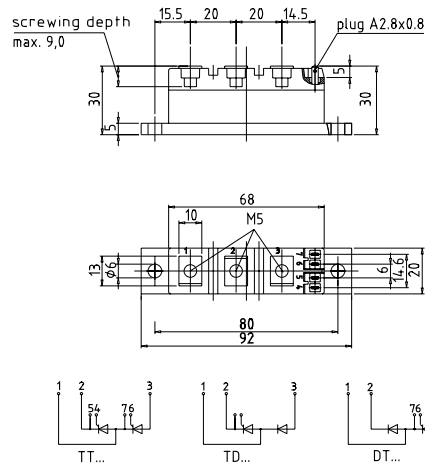
screws must be ordered separately

Base plate	screw	Salesname	packing unit	SP No
20 mm	M5x11	SHR DIN7985-M5X11	500	SP000485868
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

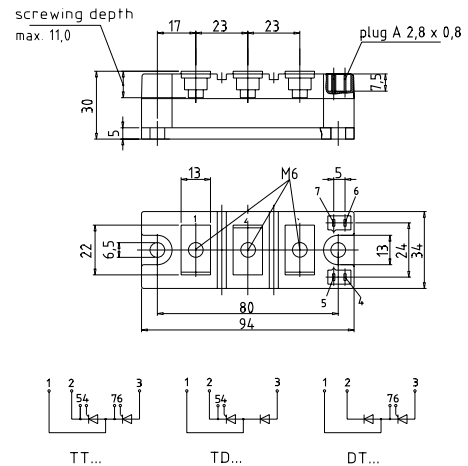
20 mm

TP20



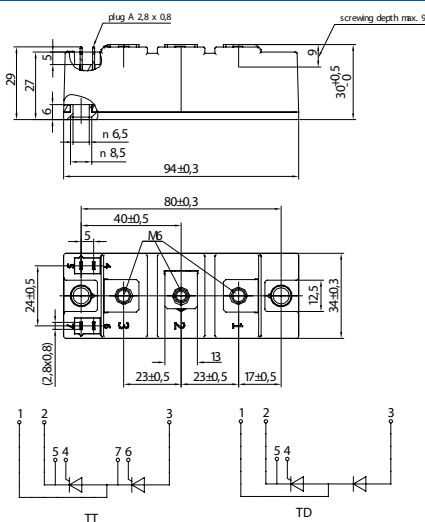
34 mm

TP34



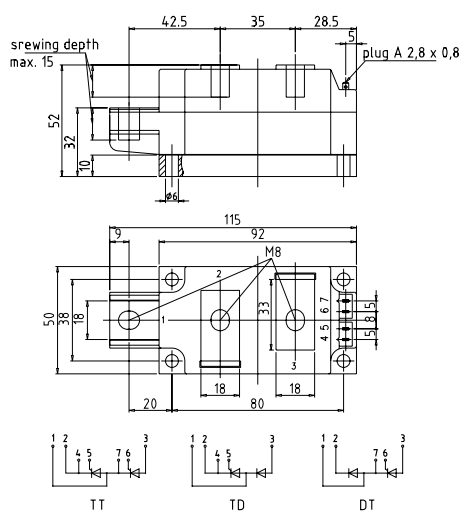
34 mm

TS34



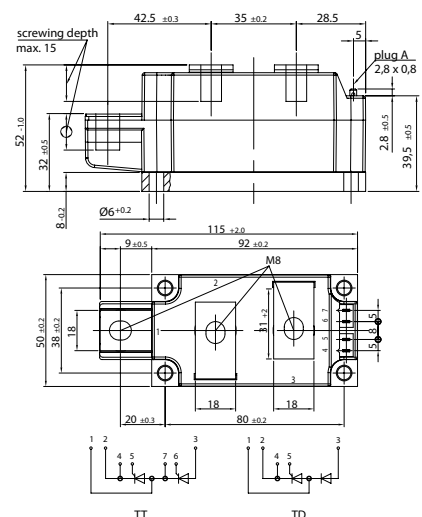
50 mm

TP50



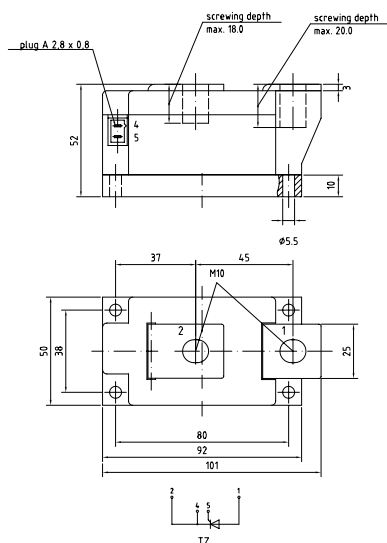
50 mm

TP50A



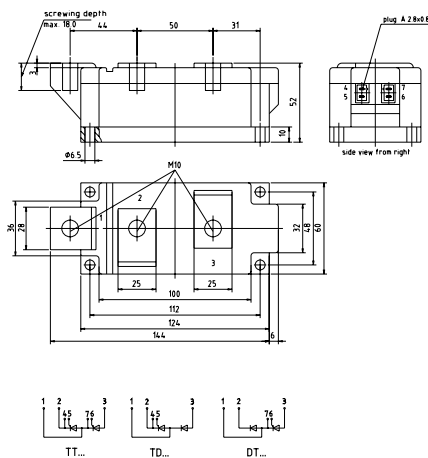
50 mm

TP50.1



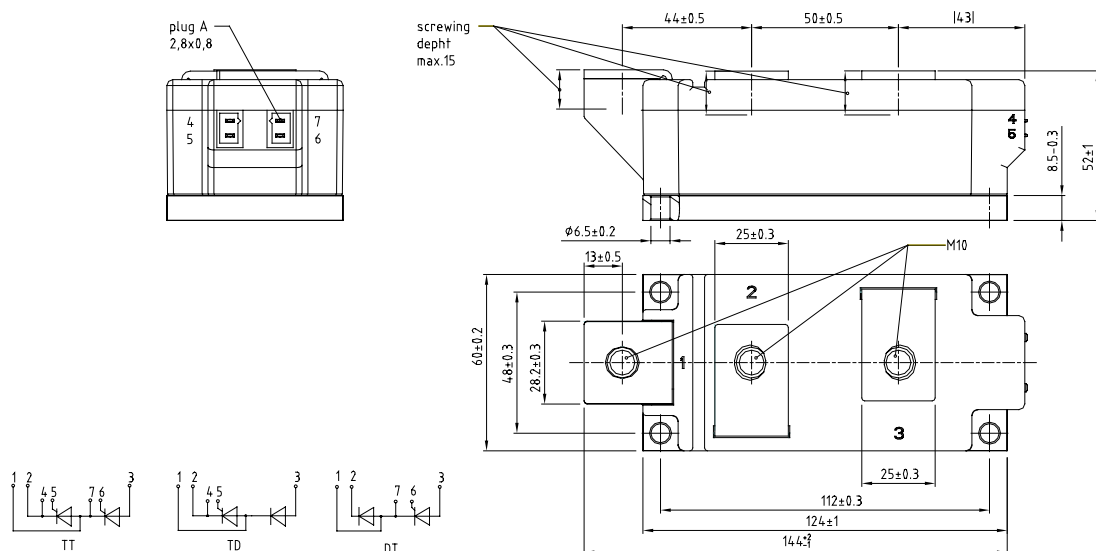
60 mm

TP60



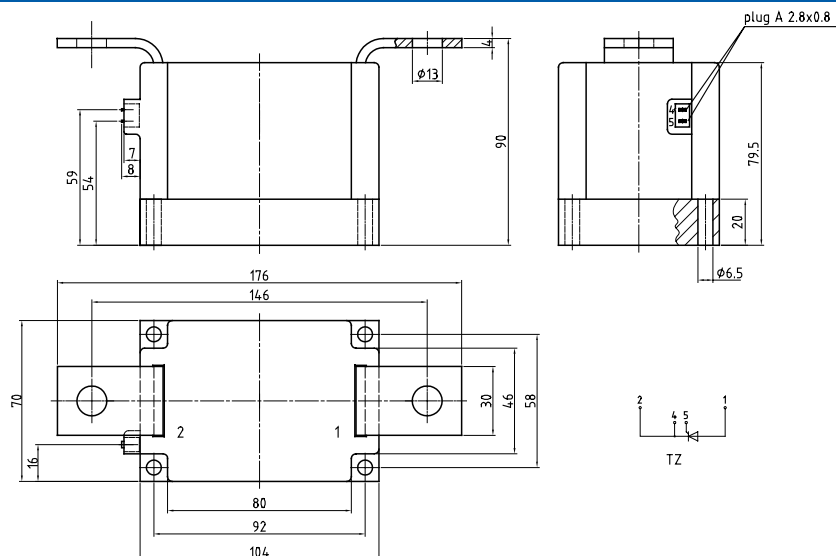
60 mm

TP60A



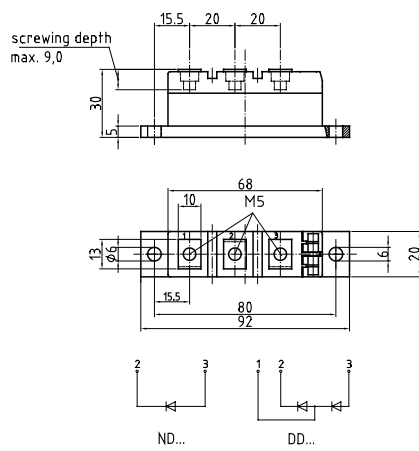
70 mm

TP70



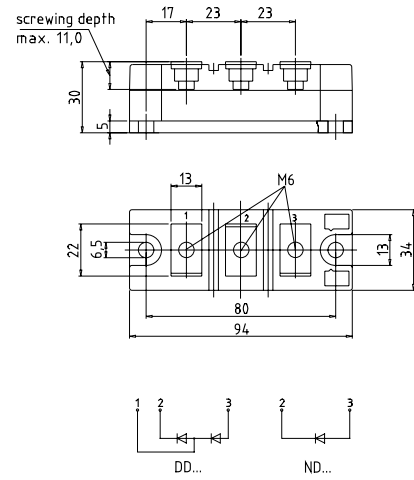
20 mm

DP20



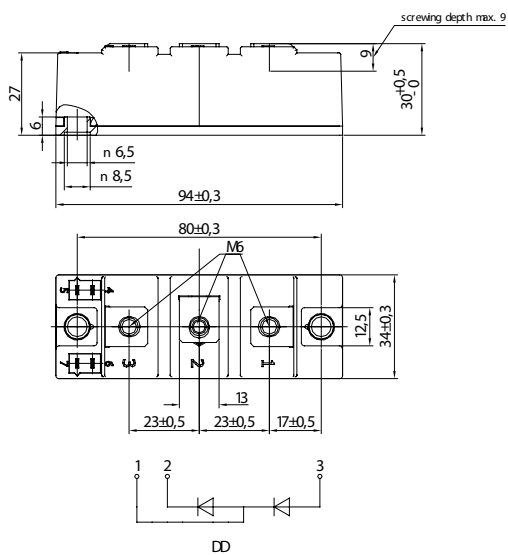
34 mm

DP34



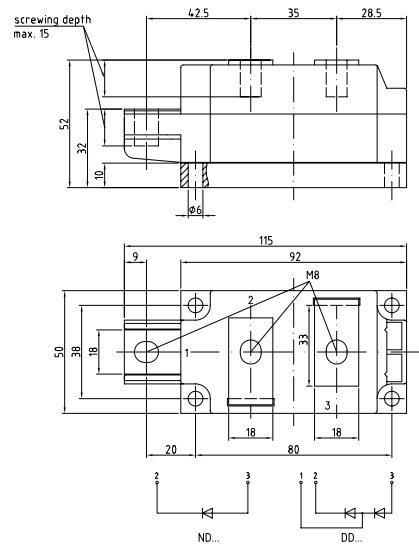
34 mm

DS34



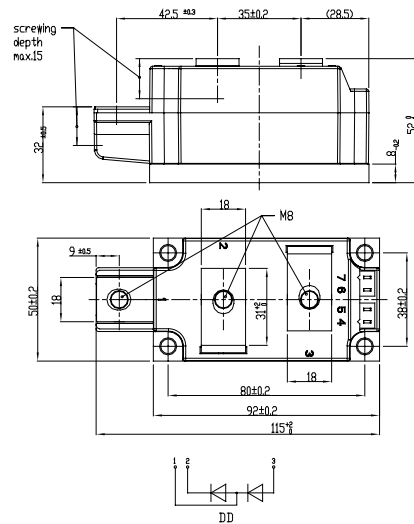
50 mm

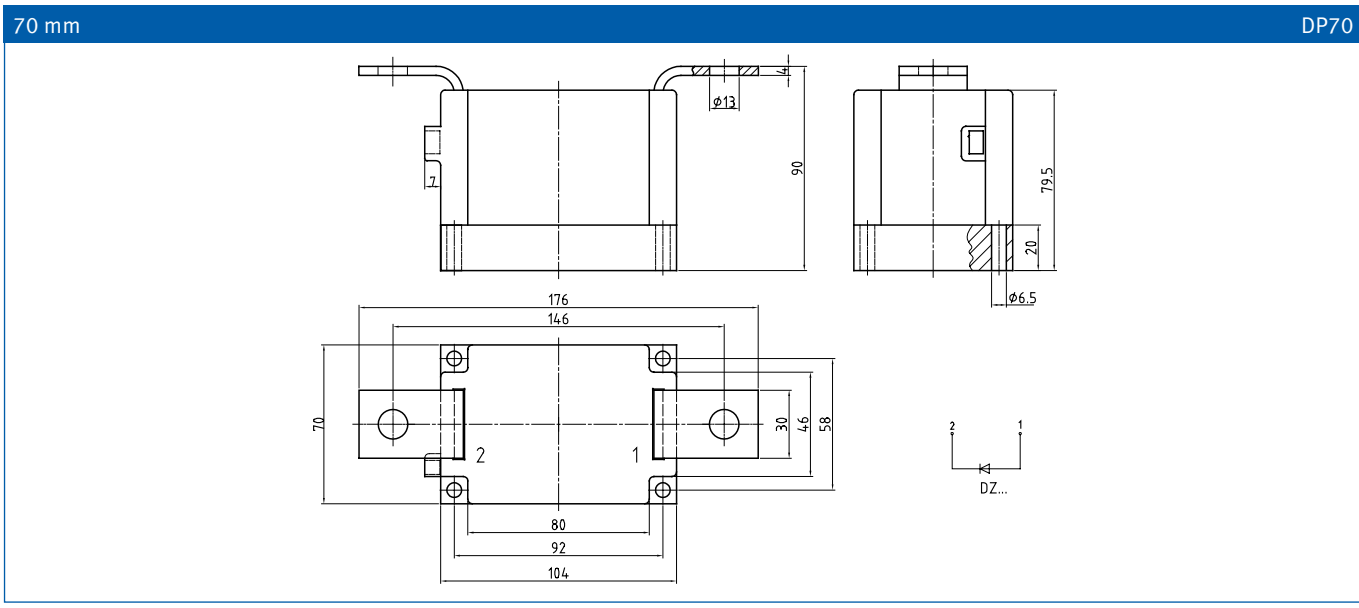
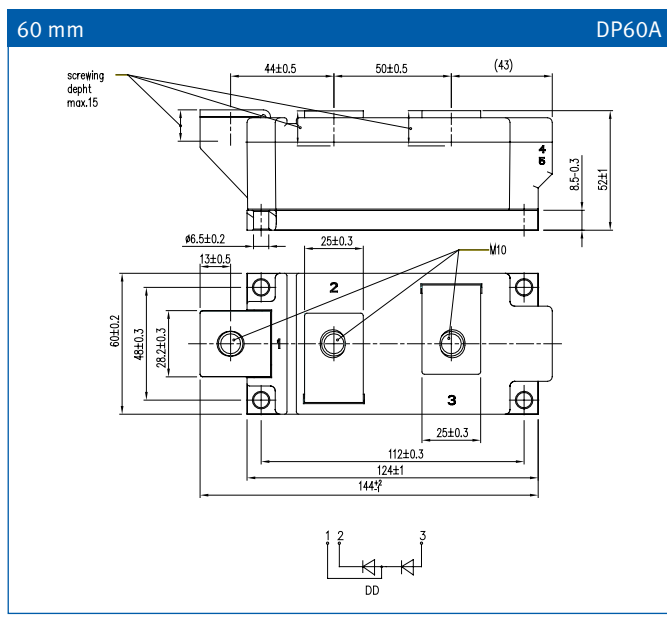
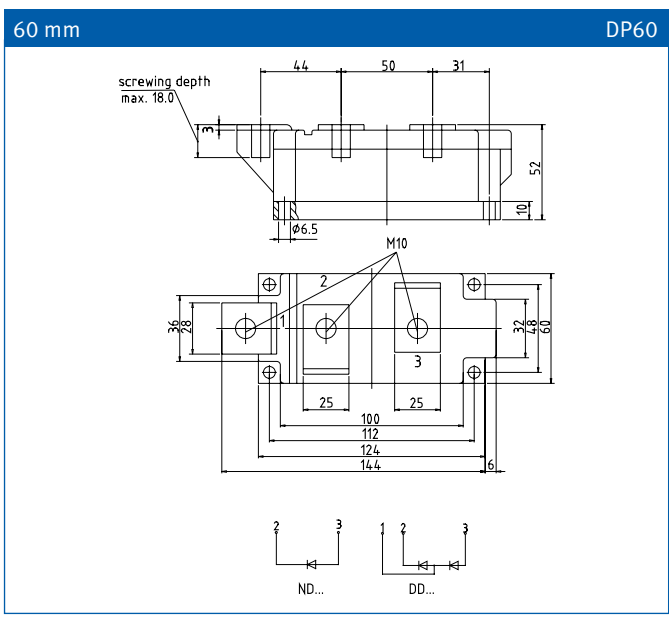
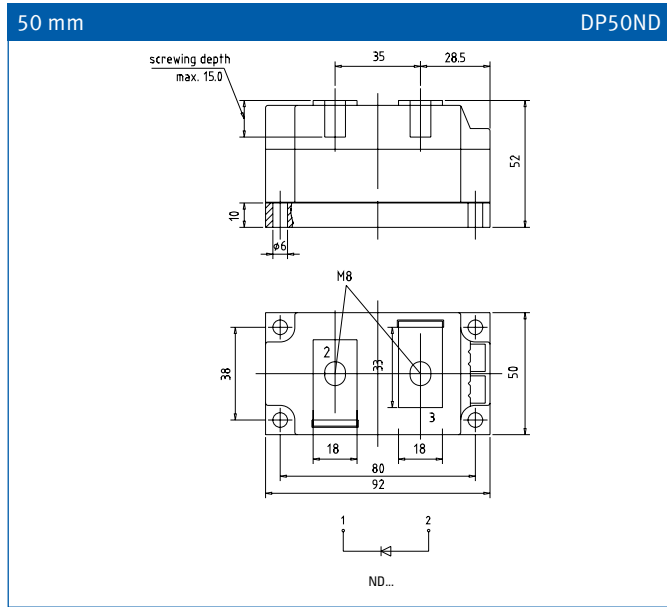
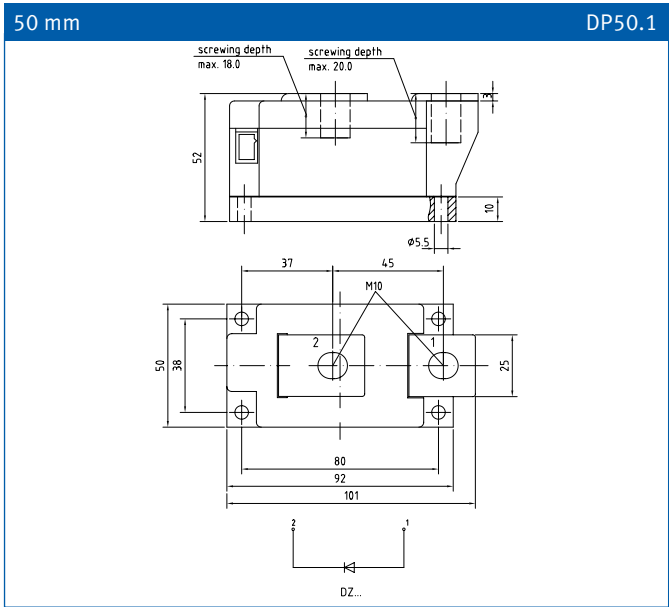
DP50



50 mm

DP50A





Package Units

PowerBLOCK Modules

Type	Outline	Housing	Packing units
TT 61 N...KOF	TP20/6.23	PB20	15
TT 92 N...KOF	TP20/6.23	PB20	15
TT 104 N...KOF	TP20/6.23	PB20	15
TT 122 N...KOF	TP34/6.23	PB34	8
TT 140 N...KOF	TP34/6.23	PB34	8
TT 140 N 16 SOF	TS34/6.23	SB34	8
TT 142 N...KOF	TP34/6.23	PB34	8
◆ TT 160 N 16 SOF	TS34/6.23	SB34	8
TT 162 N...KOF	TP34/6.23	PB34	8
TT 180 N...KOF	TP34/6.23	PB34	8
TT 150 N...KOF	TP50/6.23	PB50	3
TT 170 N...KOF	TP50/6.23	PB50AT	3
TT 210 N...KOF	TP50/6.23	PB50AT	3
TT 215 N...KOF	TP50/6.23	PB50AT	3
TT 250 N...KOF	TP50/6.23	PB50AT	3
TT 251 N...KOF	TP50/6.23	PB50AT	3
◆ TT 260 N 22 KOF	TP50A/6.23	PB50AT	3
TT 285 N...KOF	TP50/6.23	PB50AT	3
◆ TT 305 N 16 KOF	TP50/6.23	PB50AT	3
TT 330 N...KOF	TP50/6.23	PB50	3
TT 330 N 16 AOF	TP50A/6.23	PB50AT	3
TT 240 N...KOF	TP60/6.24	PB60	2
TT 310 N...KOF	TP60/6.24	PB60	2
TT 375 N...KOF	TP60/6.24	PB60	2
TT 380 N...KOF	TP60/6.24	PB60	2
TT 400 N...KOF	TP60/6.24	PB60	2
TT 425 N...KOF	TP60/6.24	PB60	2
TT 430 N...KOF	TP60/6.24	PB60	2
TT 500 N...KOF	TP60/6.24	PB60	2
TT 520 N 22 KOF	TP60A/6.24	PB60AT	2
TT 570 N...KOF	TP60/6.24	PB60	2
◆ TT 600 N 16 KOF	TP60A/6.24	PB60AT	2
TZ 150 N...KOF	TP50.1/6.24	PB50.1	3
TZ 240 N...KOF	TP50.1/6.24	PB50.1	3
TZ 310 N...KOF	TP50.1/6.24	PB50.1	3
TZ 375 N...KOF	TP50.1/6.24	PB50.1	3
TZ 400 N...KOF	TP50.1/6.24	PB50.1	3
TZ 425 N...KOF	TP50.1/6.24	PB50.1	3
TZ 430 N...KOF	TP50.1/6.24	PB50.1	3
TZ 500 N...KOF	TP50.1/6.24	PB50.1	3
TZ 600 N...KOF	TP50.1/6.24	PB50.1	3
TZ 530 N...KOF	TP70/6.24	PB70	1
TZ 630 N...KOF	TP70/6.24	PB70	1
TZ 749 N...KOF	TP70/6.24	PB70	1
TZ 800 N...KOF	TP70/6.24	PB70	1
TD 61 N...KOF	TP20/6.23	PB20	15
TD 92 N...KOF	TP20/6.23	PB20	15
TD 104 N...KOF	TP20/6.23	PB20	15
TD 122 N...KOF	TP34/6.23	PB34	8
TD 140 N...KOF	TP34/6.23	PB34	8
◆ TD 140 N 16 SOF	TS34/6.23	SB34	8
TD 142 N...KOF	TP34/6.23	PB34	8
TD 162 N...KOF	TP34/6.23	PB34	8
◆ TD 160 N 16 SOF	TS34/6.23	SB34	8
TD 180 N...KOF	TP34/6.23	PB34	8

◆ New type

Type	Outline	Housing	Packing units
TD 150 N...KOF	TP50/6.23	PB50	3
TD 170 N...KOF	TP50/6.23	PB50AT	3
TD 210 N...KOF	TP50/6.23	PB50AT	3
TD 215 N...KOF	TP50/6.23	PB50AT	3
TD 250 N...KOF	TP50/6.23	PB50AT	3
TD 251 N...KOF	TP50/6.23	PB50	3
◆ TD 270 N 16 AOF	TP50A/6.23	PB50AT	3
◆ TD 260 N 22 AOF	TP50A/6.23	PB50AT	3
TD 285 N...KOF	TP50/6.23	PB50AT	3
TD 330 N...KOF	TP50/6.23	PB50	3
TD 330 N 16 AOF	TP50A/6.23	PB50AT	3
TD 240 N...KOF	TP60/6.24	PB60	2
TD 310 N...KOF	TP60/6.24	PB60	2
TD 375 N...KOF	TP60/6.24	PB60	2
TD 400 N...KOF	TP60/6.24	PB60	2
TD 425 N...KOF	TP60/6.24	PB60	2
TD 430 N...KOF	TP60/6.24	PB60	2
TD 500 N...KOF	TP60/6.24	PB60	2
TD520 N 22 KOF	TP60A/6.24	PB60AT	2
TD 570 N...KOF	TP60/6.24	PB60	2
TD600 N 16 KOF	TP60A/6.24	PB60AT	2
DT 61 N...KOF	TP20/6.23	PB20	15
DT 92 N...KOF	TP20/6.23	PB20	15
DT 142 N...KOF	TP34/6.23	PB34	8
DT 150 N...KOF	TP50/6.23	PB50	3
DT 170 N...KOF	TP50/6.23	PB50AT	3
DT 250 N...KOF	TP50/6.23	PB50AT	3
DT 430 N...KOF	TP60/6.24	PB60	2
DD 89 N...K...K	DP20/6.25	PB20	15
ND 89 N...K	DP20/6.25	PB20	15
DD 98 N...K	DP20/6.25	PB20	15
DD 104 N...K	DP20/6.25	PB20	15
ND 104 N...K	DP20/6.25	PB20	15
◆ DD 140 N 16 S	DS34/6.25	SB34	8
DD 160 N...K	DP34/6.25	PB34	8
◆ DD160 N 16 S	DS34/6.25	SB34	8
DD 171 N...K	DP34/6.25	PB34	8
ND 171 N...K	DP34/6.25	PB34	8
DD 175 N...K	DP50/6.25	PB50	3
DD 231 N...K	DP50/6.25	PB50	3
DD 260 N...K	DP50/6.25	PB50	3
KD 260 N...K	DP50ND/6.26	PB50ND	3
DD 261 N...K	DP50/6.25	PB50AT	3
ND 261 N...K	DP50ND/6.26	PB50ND	3
DD 285 N...K	DP50/6.25	PB50	3
DD 350 N...K	DP50/6.25	PB50AT	3
ND 350 N...K	DP50ND/6.26	PB50ND	3
DD 380 N 16 AOF	DP50A/6.25	PB50AT	3
◆ DD 360 N 22 AOF	DP50A/6.25	PB50AT	3
DZ 435 N...K	DP50.1/6.25	PB50.1	3
DZ 540 N...K	DP50.1/6.25	PB50.1	3
DZ 600 N...K	DP50.1/6.25	PB50.1	3
DD 435 N...K	DP60/6.26	PB60	2
DD 540 N...K	DP60/6.26	PB60	2
DD 600 N...K	DP60/6.26	PB60	2

Package Units

PowerBLOCK Modules

Type	Outline	Housing	Packing units
ND 600 N...K	DP60/6.26	PB60	2
DD 700 N...K	DP60/6.26	PB60	2
◆ DD 710 N 16 K	DP60A/6.26	PB60AT	2
DZ 950 N...K	DP70/6.26	PB70	1
DZ 1070 N...K	DP70/6.26	PB70	1
DD 46 S...K	DP20/6.25	PB20	15
DD 61 S...K	DP20/6.25	PB20	15
DD 81 S...K	DP20/6.25	PB20	15
DD 82 S...K	DP20/6.25	PB20	15
DD 230 S...K	DP50/6.25	PB50	3
DD 241 S...K	DP50/6.25	PB50	3
ND 241 S...K	DP50ND/6.26	PB50ND	3
DD 242 S...K	DP50/6.25	PB50	3
ND 242 S...K	DP50ND/6.26	PB50ND	3

◆ New type

Links

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



Core Components for Soft Starters



Broadest portfolio of SCR for Soft Starters Applications

- Isolated SCR modules from 1.2 kV up to 3.6 kV
- SCR Discs from 1.2 kV to >6.5 kV
- Current capability from 100A to >3000A
- Robust designs for highest performance and highest reliability
- Global sales and distribution network
- Excellent service and support

For further information please visit our website.

Thyristor & Diode Presspacks





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

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 5200V up to 8000V and current ratings from 550A up to 3500A.

Overview Phase Control Thyristors in Disc Housings

V _{DRM}									
9500V				T600N					
8000V				T 533 N				T1503N T2251N T1901N	T2563N T3011N T2871N
7000V	<div>Light Triggered Thyristor (LTT)</div>							T1081N T1851N T1201N T1651N	
6500V					T281N		T571N	T1060N	T1620N
5200V	<div>Electric Triggered Thyristor (ETT)</div>							T1551N T2351N T1451N T2161N	T3441N T2851N T4003N T4021N
4400V							T731N		T1971N T1401N
4200V							T730N	T1800N	T3101N
3800V								T1930N	
3600V							T860N T930N	T901N	T2001N T1601N
2800V								T1220N	T3801N T3401N T4771N T4301N
2600V							T460N	T660N T740N	T2480N
2200V								T700N	T2810N
1800V								T1040N	T3160N
1600V								T1190N	
1400V								T11500N	
600V								T2510N	
Contact Ø	23mm	30 mm	34/36 mm	50 mm	65 mm	75 mm	86 mm	100 mm	115 mm
Case Ø	42 mm	48 mm	58 mm	75 mm	100 mm	111 mm	120mm	150 mm	172 mm







Phase Control Thyristors

up to 600 V									    				
Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 50 \text{ V}$	I_{TSM} [kA] @10 ms, $T_{vj \text{ max}}$	$\int i^2 dt$ [A ² s · 10 ³] @10 ms, $T_{vj \text{ max}}$	V_T/I_T [V/kA] $T_{vj \text{ max}}$	I_{TAVM} [A] @180 ° el sin $T_c = 85 \text{ °C}$	$V(TO)$ [V] @ $T_{vj \text{ max}}$	r_T [mΩ] @ $T_{vj \text{ max}}$	$(di/dt)_{cr}$ [A/μs] @DIN IEC 747-6	t_q [μs] typ.	R_{thjC} [K/kW] @180 ° el sin	$T_{vj \text{ max}}$ [°C]	Outline / page	
													
T 580 N06 TOF	600	5,5	151	1,63/1,5	568	1,00	0,400	200	200	62,0	140	T42.14K0/7.8	
T 690 N06 TOF	600	6,7	225	1,76/2,0	694	0,80	0,440	200	200	51,0	140	T42.14K0/7.8	
T 920 N06 TOF	600	12,0	720	1,65/2,5	925	1,00	0,230	300	150	39,0	140	T48.14K0/7.8	
T 1080 N06 TOF	600	14,5	1050	1,81/3,5	1075	1,02	0,200	200	150	33,0	140	T48.14K0/7.8	
T 1410 N06 TOF	600	20,0	2000	1,50/4,5	1490	1,00	0,100	120	200	27,0	140	T58.14K0/7.8	
T 2510 N06 TOF VT	600	42,0	8820	1,22/6,0	2509	0,75	0,072	200	200	18,4	140	T75.26K0/7.9	
T 3710 N06 TOF VT	600	60,0	18000	1,50/15,0	3710	0,75	0,048	200	200	12,5	140	T100.26K0/7.9	




up to 1800 V																
Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100 \text{ V}$	I_{TSM} [kA] @10 ms, $T_{vj \text{ max}}$	$\int i^2 dt$ [A ² s · 10 ³] @10 ms, $T_{vj \text{ max}}$	V_T/I_T [V/kA] $T_{vj \text{ max}}$	I_{TAVM} [A] @180 ° el sin $T_c = 85 \text{ °C}$	$V(TO)$ [V] @ $T_{vj \text{ max}}$	r_T [mΩ] @ $T_{vj \text{ max}}$	$(di/dt)_{cr}$ [A/μs] @DIN IEC 747-6	t_q [μs] typ.	R_{thjC} [K/kW] @180 ° el sin	$T_{vj \text{ max}}$ [°C]	Outline / page				
																
T 86 N16 BOF	1600	2,0	20	1,99/0,4	86	1,00	2,600	150	200	300	125	TSW27/7.7				
T 130 N18 BOF	1800	3,0	45	1,96/0,6	130	1,08	1,530	150	180	200	125	TSW27/7.7				
T 130 N16 EOF	1600	3,0	45	1,96/0,7	130	1,08	1,530	150	180	200	125	TFL36/7.7				
T 160 N18 BOF	1800	3,4	58	1,96/0,6	160	1,08	1,530	150	200	150	125	TSW27/7.7				
T 160 N18 EOF	1800	3,4	58	1,96/0,7	160	1,08	1,530	150	200	150	125	TFL36/7.7				
T 221 N18 BOF	1800	5,7	163	1,74/0,8	221	1,10	0,750	150	200	120	125	TSW41/7.7				
T 300 N18 TOF	1800	3,4	58	2,20/0,8	303	0,90	1,350	150	200	69	125	T42.14K0/7.8				
T 345 N18 EOF	1800	6,9	238	1,56/1,0	345	0,80	0,700	150	250	80	125	TFL54/7.7				
T 390 N16 TOF	1600	4,3	91	2,00/1,1	381	0,85	0,900	150	200	62	125	T42.14K0/7.8				
T 430 N18 TOF	1800	4,6	106	2,07/1,2	433	0,85	0,900	150	250	51	125	T42.14K0/7.8				
T 470 N16 TOF	1600	6,4	202	1,85/1,2	470	0,80	0,750	150	250	51	125	T42.14K0/7.8				
T 420 N18 TOF	1800	6,4	205	2,10/1,5	424	0,90	0,750	120	220	56	125	T48.14K0/7.8				
T 560 N18 TOF	1800	6,9	238	1,92/1,6	559	0,80	0,600	120	250	44	125	T48.14K0/7.8				
T 590 N18 TOF	1800	8,0	320	2,15/2,4	588	0,80	0,500	200	250	45	125	T58.26K0/7.8				
T 640 N18 TOF	1800	8,0	320	2,15/2,4	644	0,80	0,500	200	250	39	125	T48.14K0/7.8				
T 680 N14 TOF	1400	9,5	451	1,75/2,0	681	0,80	0,420	200	250	39	125	T48.14K0/7.8				
T 720 N18 TOF	1800	12,5	781	1,94/3,0	718	0,85	0,350	120	250	38	125	T58.26K0/7.8				
T 830 N18 TOF	1800	12,5	781	1,94/3,0	844	0,85	0,300	120	250	30	125	T58.14K0/7.8				
T 880 N18 TOF	1800	15,5	1200	1,95/3,6	879	0,85	0,270	200	250	32	125	T58.26K0/7.8				
T 940 N18 TOF	1800	15,5	1200	1,95/3,6	959	0,85	0,270	200	250	28	125	T58.14K0/7.8				
T 1190 N18 TOF VT	1800	22,5	2530	2,05/5,4	1190	0,90	0,190	200	240	23	125	T75.26K0/7.9				
T 1500 N18 TOF VT	1800	33,5	5611	2,10/7,0	1500	0,90	0,150	200	240	18,4	125	T75.26K0/7.9				
T 2180 N18 TOF VT	1800	36,0	6480	2,05/8,0	2180	0,90	0,106	200	250	12,5	125	T100.26K0/7.9				
T 3160 N18 TOF VT	1800	57,0	16245	1,37/6,0	3160	0,85	0,082	200	250	8,5	125	T111.26K0/7.9				

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

Phase Control Thyristors




up to 3000 V																	
Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100 V$	I_{TSM} [kA] @10 ms, $T_{vj\ max}$	$\int i^2 dt$ [A ² s · 10 ³] @10 ms, $T_{vj\ max}$	V_T/I_T [V/kA] $T_{vj\ max}$	I_{TAVM} [A] @180 ° el sin $T_c = 85\ ^\circ C$	$V(TO)$ [V] @ $T_{vj\ max}$	r_T [mΩ] @ $T_{vj\ max}$	$(di/dt)_{cr}$ [A/μs] @DIN IEC 747-6	t_q [μs] typ.	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\ max}$ [°C]	Outline / page					
																	
T 360 N28 TOF	2800	4,5	101	2,88/1,1	360	1,10	1,600	60	350	44,0	125	T48.14K0/7.8					
T 460 N26 TOF	2600	9,0	405	2,75/2,0	459	1,00	0,840	120	300	45,5	125	T58.26K0/7.8					
T 660 N26 TOF	2600	11,5	660	2,53/2,85	659	1,00	0,500	150	300	33,0	125	T58.26K0/7.8					
T 700 N22 TOF	2200	12,2	744	2,32/2,85	699	0,95	0,450	200	300	32,0	125	T58.26K0/7.8					
T 740 N26 TOF	2600	11,5	660	2,53/2,85	745	1,00	0,500	150	300	28,0	125	T58.14K0/7.8					
T 1040 N22 TOF VT	2200	18,5	1711	1,53/2,0	1039	0,90	0,300	200	300	23,1	125	T75.26K0/7.9					
T 1220 N28 TOF VT	2800	22,5	2531	1,38/1,0	1220	1,00	0,275	150	350	18,4	125	T75.26K0/7.9					
T 1330 N22 TOF VT	2200	23,0	2645	1,13/1,0	1329	0,90	0,234	200	300	18,4	125	T75.26K0/7.9					
T 1590 N28 TOF VT	2800	28,0	3920	2,45/5,0	1590	1,10	0,237	150	400	12,5	125	T100.26K0/7.9					
T 1960 N22 TOF VT	2200	35,0	6125	2,20/8,0	1960	0,90	0,150	200	300	12,5	125	T100.26K0/7.9					
T 2160 N28 TOF VT	2800	40,0	8000	2,65/8,8	2400	1,05	0,154	150	400	8,5	125	T111.26K0/7.9					
T 2480 N28 TOF VT	2800	43,5	9460	1,43/3,0	2480	0,95	0,154	200	400	8,5	125	T111.26K0/7.9					
T 2810 N22 TOF VT	2200	50,0	12500	2,35/11,0	2810	0,90	0,112	200	300	8,5	125	T111.26K0/7.9					
T 4301 N29 TOF VT	2900	91,0	41400	1,20/4,0	4300	0,77	0,107	300	250	5,4	125	T150.35K/7.10					
T 4771 N29 TOF VT	2900	91,0	41400	1,20/4,0	4640	0,77	0,107	300	250	4,8	125	T150.26K/7.10					

...VT → VT-class printed on housing




up to 4500 V														
Type	V_{DRM}, V_{RRM} [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100 V$	I_{TSM} [kA] @10 ms, $T_{vj \max}$	$\int i^2 dt$ [A ² s · 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] @ $T_{vj \max}$	r_T [mΩ] @ $T_{vj \max}$	$(di/dt)_{cr}$ [A/μs] @DIN IEC 747-6	t_q [μs] typ.	R_{thJC} [K/kW] @180 ° el sin	$T_{vj \max}$ [°C]	Outline / page		
														
T 730 N42 TOF VT	4200	15,8	1250	3,40/3,5	730	1,20	0,570	80	400	21,5	120	T75.26K0/7.9		
T 731 N44 TOH	4400	16,0	1280	1,86/1,2	910	1,08	0,650	300	500	18,5	125	T76.26K/7.19		
T 860 N36 TOF VT	3600	17,0	1445	3,18/3,8	860	1,08	0,500	80	400	21	125	T75.26K0/7.9		
T 901 N36 TOF	3600	17,0	1445	1,75/1,2	950	1,16	0,494	300	300	18,5	125	T76.26K/7.19		
T 930 N36 TOF VT	3600	17,5	1530	2,70/3,6	930	1,00	0,430	80	500	21,5	125	T75.26K0/7.9		
T 1401 N42 TOH	4200	36,0	6480	1,95/2,0	1600	1,29	0,330	300	350	9,7	125	T120.35K/7.10		
T 1971 N44 TOH	4400	36,0	6480	1,95/2,0	1730	1,29	0,330	300	350	8,6	125	T120.26K/7.9		
T 1601 N36 TOF	3600	41,0	8400	1,50/2,0	1920	1,00	0,250	300	300	9,7	125	T120.35K/7.10		
T 1800 N42 TOF	4200	41,0	8405	1,65/2,0	1800	0,85	0,400	150	900	8,5	125	T111.26K0/7.9		
T 1930 N38 TOF VT	3800	37,0	6850	2,90/8,0	2180	1,08	0,200	150	450	8,5	125	T111.26K0/7.9		
T 2001 N36 TOF	3600	41,0	8400	1,50/2,0	2060	1,00	0,250	300	300	8,7	125	T120.26K/7.9		
T 3101 N42 TOH	4200	83,0	34000	1,6/4,0	3160	0,90	0,175	300	400	5,4	125	T150.35K/7.10		
T 3401 N36 TOH	3600	87,0	37850	1,40/4,0	3800	0,82	0,145	300	300	5,4	125	T150.35K/7.10		
T 3801 N36 TOH	3600	87,0	37850	1,40/4,0	4100	0,82	0,145	300	300	4,8	125	T150.26K/7.10		

...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, $T_{vj\ max}$	$\int i^2 dt$ [A ² s · 10 ³] @10 ms, $T_{vj\ max}$	V_T/I_T [V/kA] $T_{vj\ max}$	I_{TAVM} [A] @180 ° el sin $T_c = 85\ ^\circ C$	$V(TO)$ [V] @ $T_{vj\ max}$	r_T [mΩ] @ $T_{vj\ max}$	$(di/dt)_{cr}$ [A/μs] @DIN IEC 747-6	t_q [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	1690	0,92	0,370	300	450	9,7	125	T120.35K/7.10		
T 1551 N52 TOH	5200	43,0	9250	1,70/2,0	1830	0,92	0,370	300	450	8,6	125	T120.26K/7.9		
T 2161 N52 TOH	5200	54,0	14600	1,85/3,0	2170	0,81	0,360	300	450	7,5	125	T120.35K/7.10		
T 2351 N52 TOH	5200	54,0	14600	1,85/3,0	2360	0,81	0,360	300	450	6,5	125	T120.26K/7.9		
T 2851 N52 TOH	5200	79,0	31000	1,70/4,0	3000	0,77	0,235	300	600	5,4	125	T150.35K/7.10		
T 3441 N52 TOH	5200	79,0	31000	1,70/4,0	3200	0,77	0,235	300	600	4,8	125	T150.26K/7.10		
T 4021 N53 TOH	5350	100,0	50000	1,80/6,0	3920	0,92	0,142	300	550	4.45	125	T172.26K/7.10		

...VT-→ VT-class printed on housing







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}	∫i²dt [A²s · 10³] @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}	r _T [mΩ] @T _{vj max}	(di/dt) _{cr} [A/μs] @DIN IEC 747-6	t _q [μs] typ.	R _{thJC} [K/kW] @180 ° el sin	T _{vj max} [°C]	Outline / page		
														
T 281 N65 TOF	6500	4,8	115	2,75/0,5	280	1,35	2,800	150	1000	43,0	125	T58.26K0/7.8		
T 571 N65 TOF	6500	9,4	442	2,75/1,0	540	1,35	1,400	150	1000	23,0	125	T75.26K0/7.9		
T 1060 N65 TOF	6500	22,5	2530	3,5/3,0	1050	1,35	0,720	150	1000	11,8	125	T100.26K0/7.9		
T 1620 N65 TOF	6500	32,0	5120	3,3/4,5	1610	1,35	0,430	150	1000	8,1	125	T111.26K0/7.9		
T 1081 N70 TOH	7000	34,0	5780	2,7/2,0	1330	1,18	0,759	300	600	8,6	125	T120.26K/7.9		
T 1201 N70 TOH	7000	34,0	5780	2,7/2,0	1230	1,18	0,759	300	600	9,7	125	T120.35K/7.10		
T 1651 N70 TOH	7000	48,0	11500	2,65/3,0	1685	1,22	0,490	300	600	7,5	125	T120.35K/7.10		
T 1851 N70 TOH	7000	48,0	11500	2,65/3,0	1850	1,22	0,490	300	600	6,5	125	T120.26K/7.9		
T 1901 N80 TOH	8000	65,0	21100	3,0/4,0	2130	1,24	0,440	300	550	5,4	125	T150.35K/7.10		
T 2251 N80 TOH	8000	65,0	21100	3,0/4,0	2280	1,24	0,440	300	550	4,8	125	T150.26K/7.10		
T 2871 N80 TOH	8000	90,0	40500	2,95/5,0	2680	1,27	0,336	300	550	4,5	125	T172.26K/7.10		
◆ T 3011 N80 TOH	8000	90,0	43250	2,95/5,0	2800	1,27	0,336	300	550	4,0	125	T172.26K/7.10		
◆ T 600 N95 TOH	9500	12,8	820	2,8/1,0	570	1,18	1,620	100	900	20,5	125	T75.26K0/7.9		

◆ New type

Light Triggered Thyristors

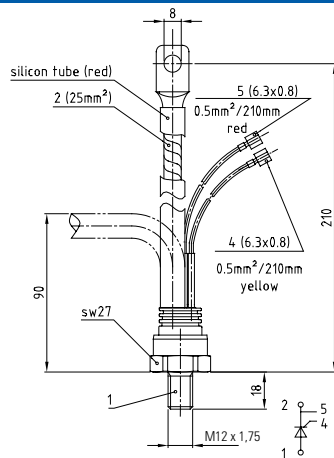
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Type	V _{BO} V	V _{DRM} , V _{RRM} [V] V _{DSM} = V _{DRM} V _{RSM} = V _{RRM} + 100 V	I _{TSM} [kA] @10ms, T _{vj max}	∫i ² dt [A ² s · 10 ³] @10ms, T _{vj max}	V _T /I _T [V/kA] @T _{vj max}	ITAVM [A/°C] @180 ° el sin T _c = 85 °C	V(TO) [V] @T _{vj 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]	Outline / page
													
T 533 N80 TOH	6500	8000	11,2	672	2,80/1,0	535	1,31	1,500	300	800	20	120	T76.35L/7.10
T 1503 N80 TOH	7500	8000	55	15125	3,00/4,0	1770	1,24	0,440	300	550	6,3	120	T150.40L/7.11
T 2563 N80 TOH	7500	8000	90	40500	2,95/5,0	2520	1,28	0,278	300	550	4,8	120	T172.40L/7.11
T 4003 N52 TOH	5200	5200	100	50000	1,80/5,0	3480	0,92	0,142	300	500	4,8	120	T172.40L/7.11

Pulsed Power Applications

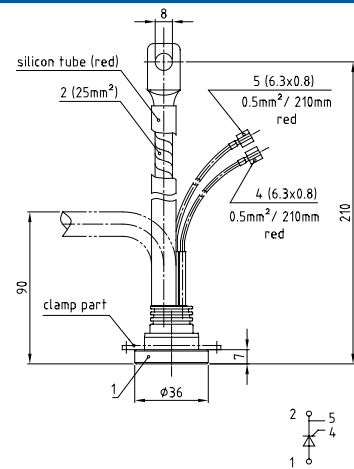
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Type	V _{BO} [V]	V _{RRM} [V]	I _{TSM} [kA] @10ms T _{vjmax}	V _{T(F)} /I _{T(F)} [V/kA] @T _{vjmax}	di/dt _{cr(on)} [A/μs] @single pulse	di/dt _{cr(off)} [A/μs] @single pulse	R _{th} C [K/kW] @ 180° el sin	T _{vj max} [°C]	Outline / page
 T 4003 NH52TOH	5200	5200	100	1,80/5,0	5000		4,5	120	T172.40L/7.11
 T 1503 NH80TOH	7500	7500...8000	55	3,00/4,0	5000		6,0	120	T150.40L/7.11
 T 2563 NH80TOH	7500	7500...8000	90	2,95/5,0	5000		4,5	120	T172.40L/7.11
 D 2601 NH...TOH			22	5,5/4,0		7500	7,5	140	D120.26K/7.24

Outlines

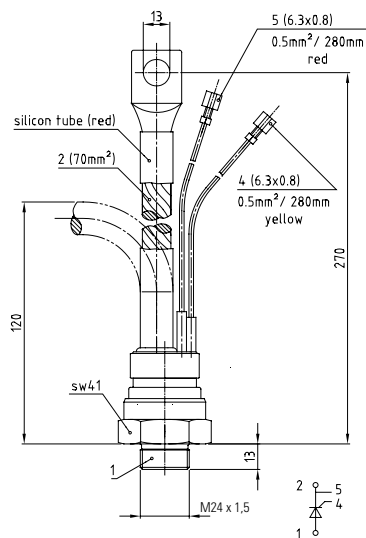
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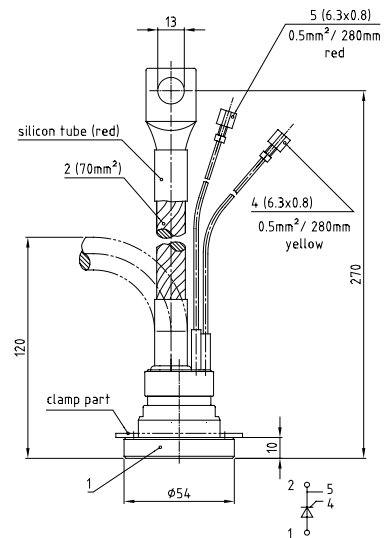
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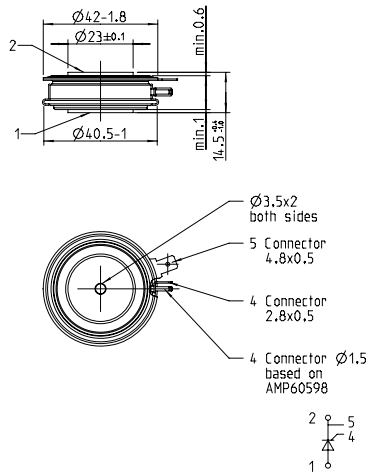
TSW41



TFL54



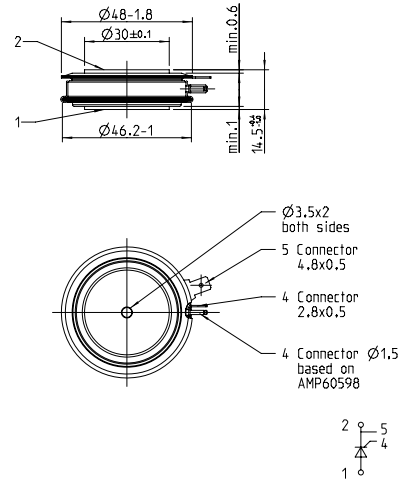
T42.14K0



strike distance: 5mm
creepage distance: 6mm

overall height based
on contact pressure

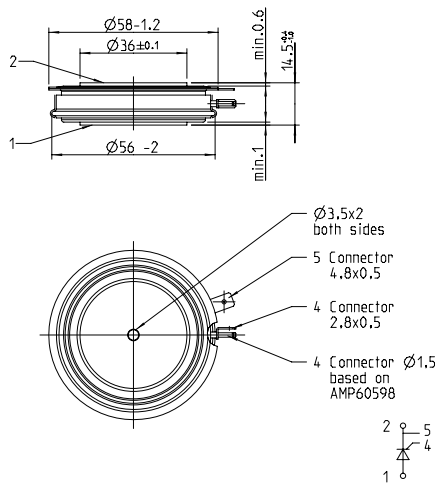
T48.14K0



strike distance: 5.0mm
creepage distance: 6.0mm

overall height based
on contact pressure

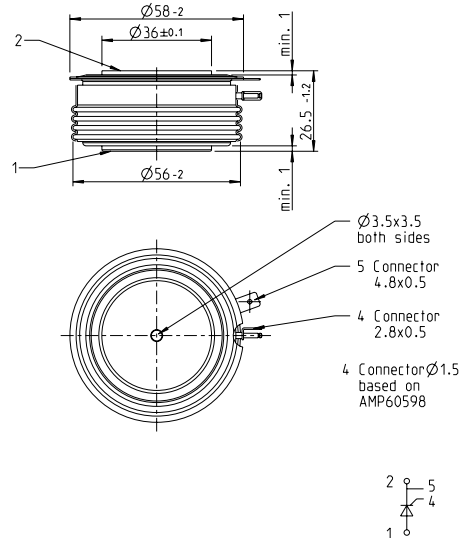
T58.14K0



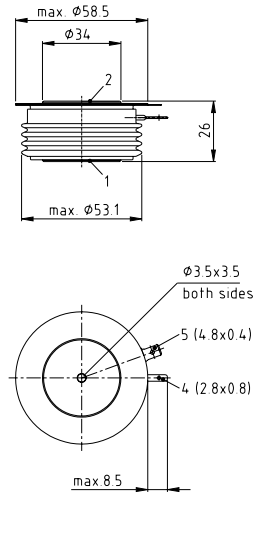
strike distance: 4mm
creepage distance: 5.0mm

overall height based
on contact pressure

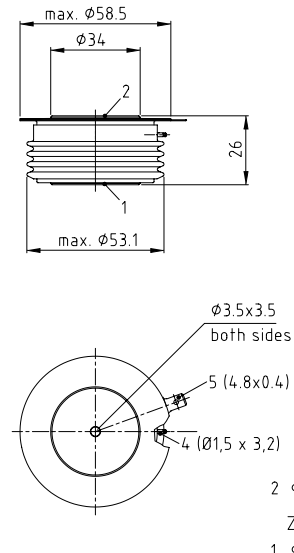
T58.26K0



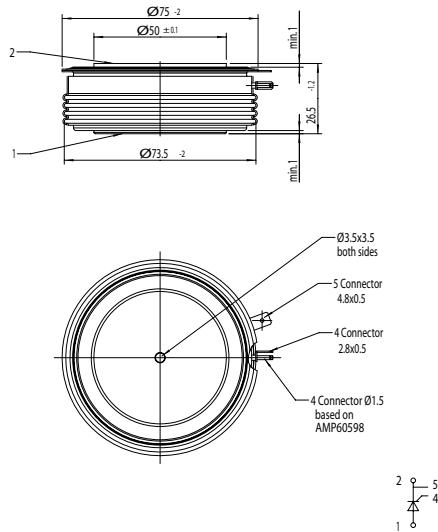
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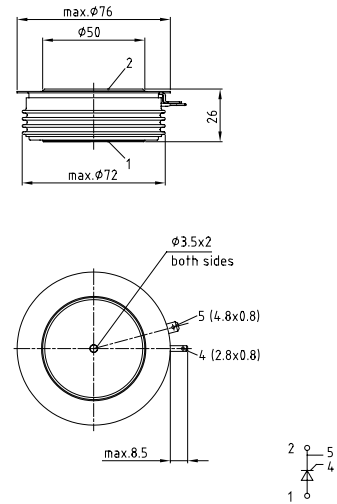
T58.26K1



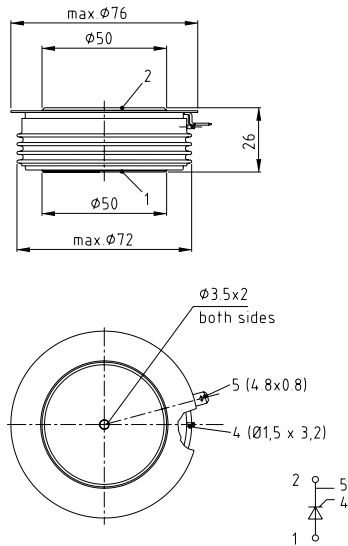
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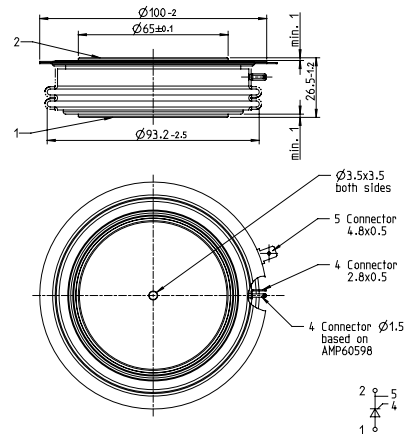
T76.26K



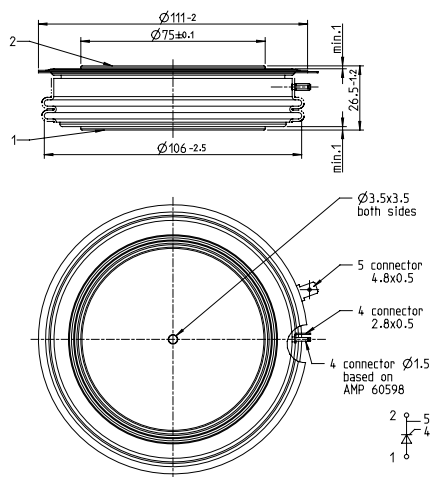
T75.26K1



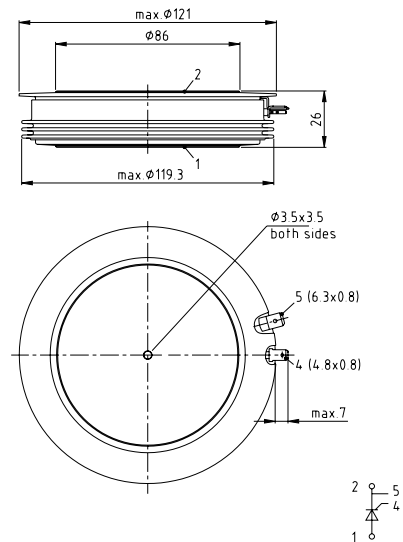
T100.26K0



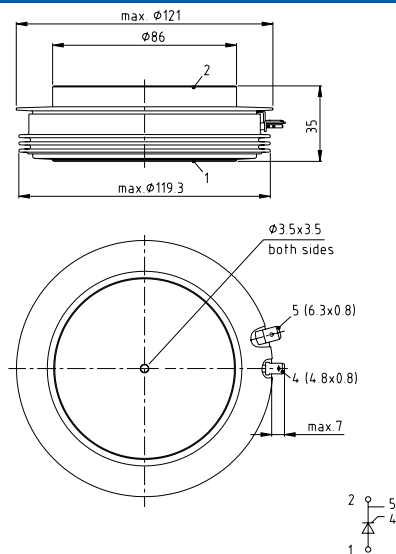
T111.26K0



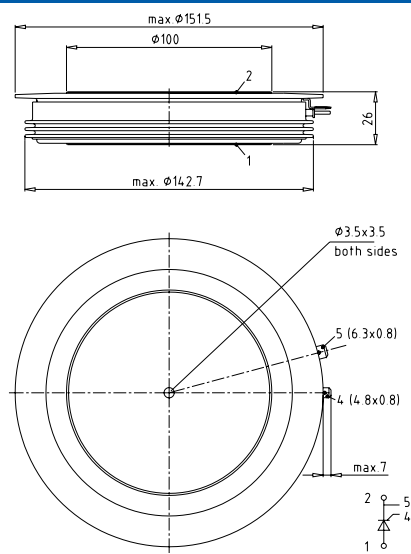
T120.26K



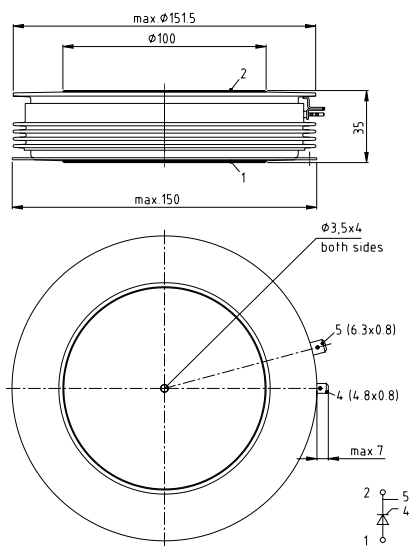
T120.35K



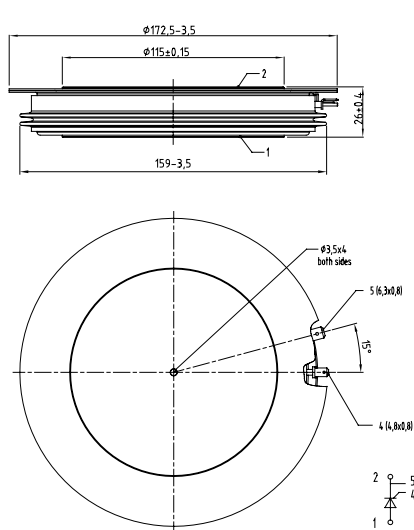
T150.26K



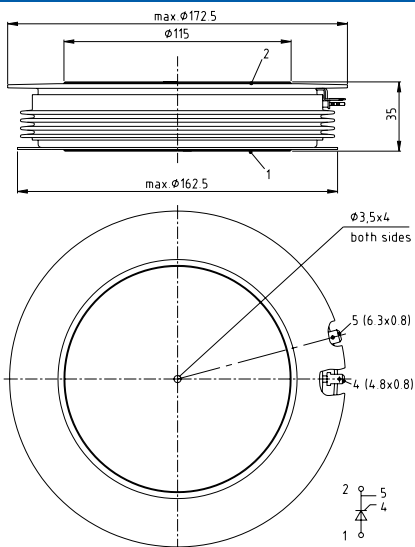
T150.35K



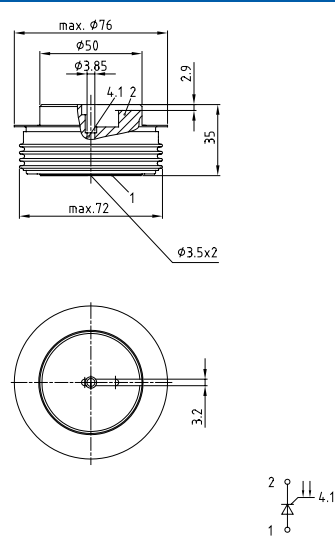
T172.26K



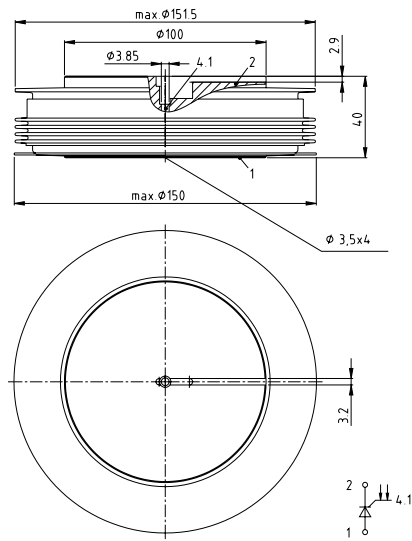
T172.35K



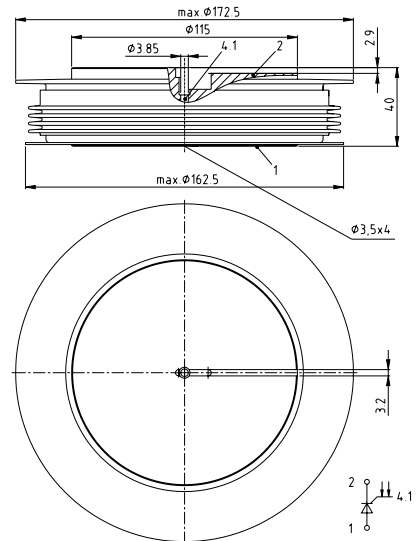
T76.35L



T150.40L



T172.40L



Clamping Forces for Thyristor Discs

Typ	Recommended Clamping force range [kN]	Outline
T 281 N65 TOF	7,0...12,0	T58.26K
T 300 N...TOF	2,5...5,0	T42.14K0
T 360 N...TOF	5,0...10,0	T48.14K0
T 390 N...TOF	3,0...6,0	T42.14K0
T 420 N...TOF	5,0...10,0	T48.14K0
T 430 N...TOF	4,0...8,0	T42.14K0
T 460 N...TOF	7,5...17,5	T58.26K0
T 470 N...TOF	4,0...8,0	T42.14K0
T 533 N...TOH	15,0...24,0	T76.35L
T 560 N...TOF	5,0...10,0	T48.14K0
T 571 N65 TOF	15,0...24,0	T75.26K
T 580 N...TOF	3,0...6,0	T42.14K0
T 590 N...TOF	6,0...12,0	T58.26K0
T 600 N...TOF	15,0...24,0	T75.26K0
T 640 N...TOF	6,0...12,0	T48.14K0
T 660 N...TOF	10,5...21,0	T58.26K0
T 680 N...TOF	6,0...12,0	T48.14K0
T 690 N...TOF	4,0...8,0	T42.14K0
T 700 N...TOF	10,5...21,0	T58.26K0
T 720 N...TOF	9,0...18,0	T58.26K0
T 730 N...TOF	18,0...43,0	T75.26K0
T 731 N...TOH	15,0...24,0	T76.26K
T 740 N...TOF	10,5...21,0	T58.14K0
T 830 N...TOF	9,0...18,0	T58.14K0
T 860 N...TOF	20,0...45,0	T75.26K0
T 880 N...TOF	10,5...21,0	T58.26K0
T 901 N...TOF	15,0...24,0	T76.26K
T 920 N...TOF	5,5...8,0	T48.14K0
T 930 N...TOF	20,0...45,0	T75.26K0
T 940 N...TOF	10,5...21,0	T58.14K0
T 1040 N...TOF	16,0...32,0	T75.26K0
T 1060 N...TOF	30,0...50,0	T100.26K0
T 1080 N...TOF	8,0...16,0	T48.14K0
T 1081 N...TOH	36...52,0	T120.26K
T 1190 N...TOF	16,0...32,0	T75.26K0
T 1201 N...TOH	36,0...52,0	T120.35K
T 1220 N...TOF	20,0...45,0	T75.26K0
T 1330 N...TOF	20,0...45,0	T75.26K0
T 1401 N...TOH	36,0...52,0	T120.35K
T 1410 N...TOF	12,0...24,0	T58.14K0
T 1451 N...TOH	36,0...52,0	T120.35K
T 1500 N...TOF	24,0...56,0	T75.26K0
T 1503 N...TOH	63,0...91,0	T150.40L
T 1503 NH...TOH	63,0...91,0	T150.40L
T 1551 N...TOH	36,0...52,0	T120.26K
T 1590 N...TOF	30,0...65,0	T100.26K0
T 1601 N...TOF	36,0...52,0	T120.35K
T 1620 N...TOF	42,0...65,0	T111.26K0
T 1651 N...TOH	45,0...65,0	T120.35K
T 1800 N...TOF	42,0...95,0	T111.26K0
T 1851 N...TOH	45,0...65,0	T120.26K
T 1901 N...TOH	63,0...91,0	T150.35K
T 1930 N...TOF	42,0...95,0	T111.26K0
T 1960 N...TOF	30,0...65,0	T100.26K0
T 1971 N...TOH	36,0...52,0	T120.26K
T 2001 N...TOF	36,0...52,0	T120.26K

Typ	Recommended Clamping force range [kN]	Outline
T 2160 N...TOF	42,0...95,0	T111.26K0
T 2161 N...TOH	45,0...65,0	T120.35K
T 2180 N...TOF	30,0...65,0	T100.26K0
T 2251 N...TOH	63,0...91,0	T150.26K
T 2351 N...TOH	45,0...65,0	T120.26K
T 2480 N...TOF	42,0...95,0	T111.26K0
T 2510 N...TOF	24,0...56,0	T75.26K0
T 2563 N...TOH	90,0...130,0	T172.40L
T 2563 NH...TOH	90,0...130,0	T172.40L
T 2810 N...TOF	42,0...95,0	T111.26K0
T 2851 N...TOH	63,0...91,0	T150.35K
T 2871 N...TOH	90,0...130,0	T172.35K
T 3101 N...TOH	63,0...91,0	T150.35K
T 3160 N...TOF	42,0...95,0	T111.26K0
T 3011 N...TOH	90,0...130,0	T172.26K
T 3401 N...TOH	63,0...91,0	T150.35K
T 3441 N...TOH	63,0...91,0	T150.26K
T 3710 N...TOF	30,0...65,0	T100.26K0
T 3801 N...TOH	63,0...91,0	T150.26K
T 4003 N...TOH	90,0...130,0	T172.40L
T 4003 NH...TOH	90,0...130,0	T172.40L
T 4021 N...TOH	90,0...130,0	T172.35K
T 4301 N...TOF	63,0...91,0	T150.35K
T 4771 N...TOF	63,0...91,0	T150.26K

Package Units Thyristor Discs

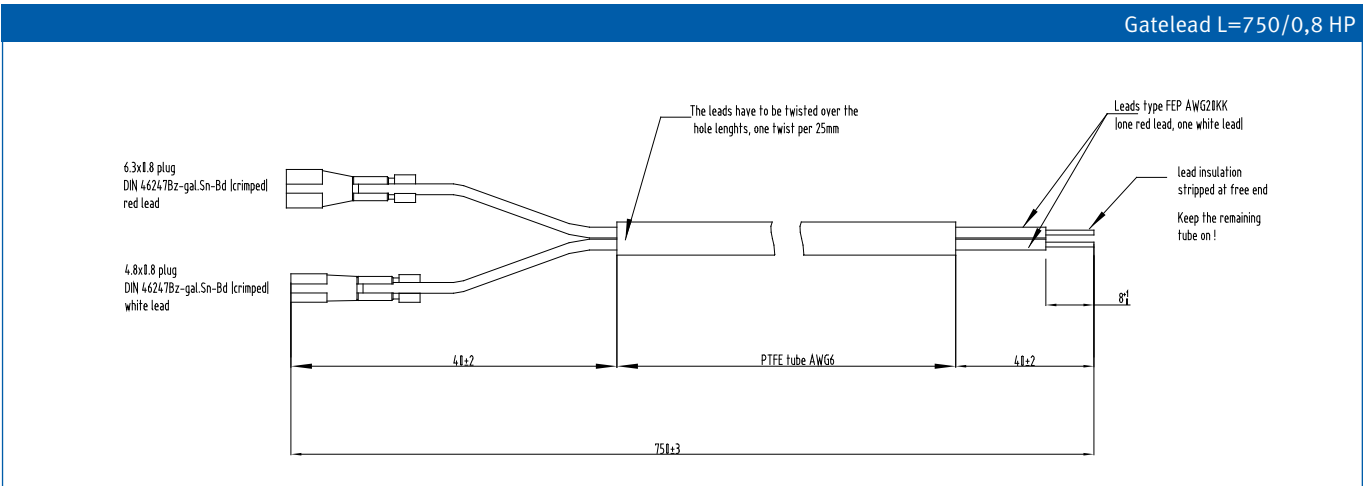
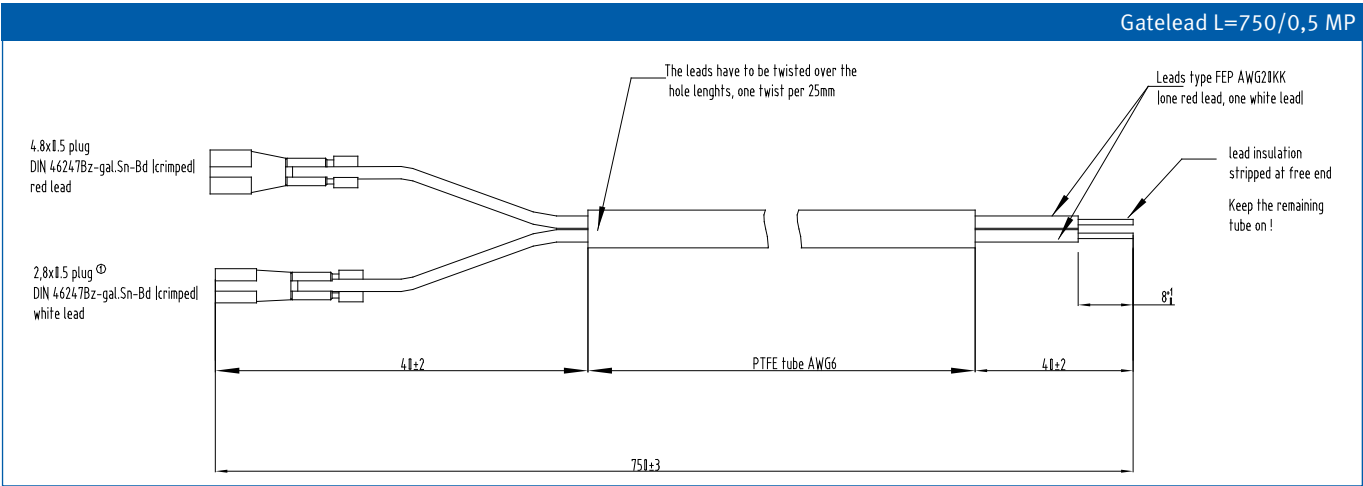
Type	Outline	Packing units
T 280 N...TOF	T58.26K0	3
T 300 N...TOF	T42.14K0	12
T 360 N...TOF	T48.14K0	10
T 390 N...TOF	T42.14K0	12
T 420 N...TOF	T48.14K0	10
T 430 N...TOF	T42.14K0	12
T 460 N...TOF	T58.26K0	3
T 470 N...TOF	T42.14K0	12
T 533 N...TOH	T76.35L	3
T 560 N...TOF	T48.14K0	10
T 570 N...TOF	T75.26K0	2
T 580 N...TOF	T42.14K0	12
T 590 N...TOF	T58.26K0	3
T 600 N...TOF	T75.26K0	2
T 640 N...TOF	T48.14K0	10
T 660 N...TOF	T58.26K0	3
T 680 N...TOF	T48.14K0	10
T 690 N...TOF	T42.14K0	12
T 700 N...TOF	T58.26K0	3
T 720 N...TOF	T58.26K0	3
T 730 N...TOF	T75.26K0	2
T 731 N...TOH	T76.26K	2
T 740 N...TOF	T58.14K0	6
T 830 N...TOF	T58.14K0	6
T 860 N...TOF	T75.26K0	2
T 880 N...TOF	T58.26K0	3
T 901 N...TOF	T76.26K	2
T 920 N...TOF	T48.14K0	10
T 930 N...TOF	T75.26K0	2
T 940 N...TOF	T58.14K0	6
T 1040 N...TOF	T75.26K0	2
T 1060 N...TOF	T100.26K0	3
T 1080 N...TOF	T48.14K0	10
T 1081 N...TOH	T120.26K	2
T 1190 N...TOF	T75.26K0	2
T 1201 N...TOH	T120.35K	1
T 1220 N...TOF	T75.26K0	2
T 1330 N...TOF	T75.26K0	2
T 1401 N...TOH	T120.35K	1
T 1410 N...TOF	T58.14K0	6
T 1451 N...TOH	T120.35K	1
T 1500 N...TOF	T75.26K0	2
T 1503 N...TOH	T150.40L	1
T 1503 NH...TOH	T150.40L	1
T 1551 N...TOH	T120.26K	2
T 1590 N...TOF	T100.26K0	3
T 1601 N...TOF	T120.35K	1
T 1620 N...TOF	T111.26K0	2
T 1651 N...TOH	T120.35K	1
T 1800 N...TOF	T111.26K0	2
T 1851 N...TOH	T120.26K	2
T 1901 N...TOH	T150.35K	1
T 1930 N...TOF	T111.26K0	2
T 1960 N...TOF	T100.26K0	3
T 1971 N...TOH	T120.26K	2
T 2001 N...TOF	T120.26K	2

Type	Outline	Packing units
T 2160 N...TOF	T111.26K0	2
T 2161 N...TOH	T120.35K	1
T 2180 N...TOF	T100.26K0	3
T 2251 N...TOH	T150.26K	1
T 2351 N...TOH	T120.26K	2
T 2480 N...TOF	T111.26K0	2
T 2510 N...TOF	T75.26K0	2
T 2563 N...TOH	T172.40L	1
T 2563 NH...TOH	T172.40L	1
T 2810 N...TOF	T111.26K0	2
T 2851 N...TOH	T150.35K	1
T 2871 N...TOH	T172.35K	1
T 3101 N...TOH	T150.35K	1
T 3160 N...TOF	T111.26K0	2
T 3011 N...TOH	T172.26K	1
T 3401 N...TOF	T150.35K	1
T 3441 N...TOH	T150.26K	1
T 3710 N...TOF	T100.26K0	3
T 3801 N...TOF	T150.26K	1
T 4003 N...TOH	T172.40L	1
T 4003 NH...TOH	T172.40L	1
T 4021 N...TOH	T172.35K	1
T 4301 N...TOH	T150.35K	1
T 4771 N...TOF	T150.26K	1

Standard Gate Leads for Disc Type Devices

Leads and gate leads must be ordered separately

Disc outline/page	Type	Color	Connector [mm]	Length [mm]	Ordering Code
T42.14K0/7.8	GATELEAD L=750/0,5 MP	red/white	4,8x0,5/2,8x0,5	750	SP000983448
T48.14K0/7.8					
T58.14K0/7.8					
T58.26K0/7.8					
T75.26K0/7.9					
T100.26K0/7.9					
T111.26K0/7.9					
T120.26K/7.9	GATELEAD L=750/0,8 HP	red/white	6,3x0,8/4,8x0,8	750	SP000983442
T120.35K/7.10					
T150.26K/7.10					
T150.35K/7.10					
T172.26K/7.10					



Laser Diode and Light Fiber for light triggered Thyristors (LTT)


laser diodes and light fibers must be ordered separately


device		laser diode		light fiber		
for type	Outline/page	Salesname	Ordering Code	Salesname	length [mm]	Ordering Code
T533N	T76.35L/7.10	LASERDI SPL-PL90 A	SP000091118	LWL R10LR50L3000 A	3000	SP000091119
T1503N(H)	T150.40L/7.11	LASERDI SPL-PL90 A	SP000091118	LWL R10 LR87-L3000	3000	SP000091117
T2563N(H)	T172.40L/7.11	LASERDI SPL-PL90 A	SP000091118	LWL R10 LR87-L3000	3000	SP000091117
T4003N(H)	T172.40L/7.11	LASERDI SPL-PL90 A	SP000091118	LWL R10 LR87-L3000	3000	SP000091117


Overview Rectifier in Disc Housings

V_{RRM}									
9000 V		D471N				D2601N D2601NH			
6800 V		D711N		D1481N		D3040N	D3041N D3001N		
5000 V								D6001N	
4800 V		D740N		D1800N					
4200 V							D3501N		
3800 V		D850N							
3600 V		D270N							
			D820N				D4810N		
2800 V									
2600 V			D1030N						
2400 V				D2200N D2650N					
2200 V		D950N		D2520N			D4201N		
2000 V	D770N								
1800 V			D1230N		D1050N				
1400 V									
600 V	D650N D970N				D2450N	D5810N	D8320N		
Contact \varnothing	23mm		30 mm		34/36 mm	50 mm	65 mm	75 mm	100 mm
Case \varnothing	42 mm		48mm		58 mm	75 mm	100 mm	111 mm	150 mm

Rectifier Diodes




up to 800 V									
Type	V _{RRM} [V] V _{DSM} = V _{DRM} V _{RSM} = V _{RRM} + 50 V	I _{FSM} [kA] @10 ms, T _{vj max}	∫i ² dt [A ² s · 10 ³] @ 10 ms T _{vj max}	I _{FAVM} /T _c [A/°C] @ 180° el sin	V _(TO) [V] @T _{vj max}	r _T [mΩ] @T _{vj max}	R _{thJC} [K/kW] @ 180° el sin	T _{vj max} [°C]	Outline / page
									
D 255 N 08 B	800	4,6	106	255/110	0,65	0,85	230,0	180	DSW27/7.22
D 255 K 08 B	800	4,0	80	255/75	0,65	0,85	345,0	180	DSW27/7.22
D 650 N 08 T	800	5,1	130	651/100	0,70	0,51	81,0	180	D42.14K0/7.23
D 970 N 08 T	800	8,8	387	972/100	0,70	0,31	57,0	180	D42.14K0/7.23
D 2450 N 06 T	600	28,5	4061	2452/100	0,70	0,10	25,3	180	D58.14K0/7.23
D 5810 N 06 T VF	600	70,0	24500	5800/58	0,70	0,04	17,0	180	D75.26K0/7.24
D 8320 N 06 T VF	600	95,0	45000	8320/56	0,70	0,02	12,5	180	D100.26K0/7.24




up to 1800 V									
Type	V _{RRM} [V] V _{DSM} = V _{DRM} V _{RSM} = V _{RRM} + 50 V	I _{FSM} [kA] @10 ms, T _{vj max}	∫i ² dt [A ² s · 10 ³] @ 10 ms T _{vj max}	I _{FAVM} /T _c [A/°C] @ 180° el sin	V _(TO) [V] @T _{vj max}	r _T [mΩ] @T _{vj max}	R _{thJC} [K/kW] @ 180° el sin	T _{vj max} [°C]	Outline / page
									
D 452 N 18 E VF	1800	10,8	583	450/130	0,77	0,48	85,5	180	DFL54/7.22
D 452 K 18 E	1800	10,8	583	450/130	0,77	0,48	85,5	180	DFL54/7.22
D 1230 N 18 T	1800	11,8	696	1234/100	0,81	0,28	39,0	180	D48.14K0/7.23
D 1050 N 18 T	1800	18,5	1710	1050/130	0,81	0,17	38,0	180	D58.26K0/7.23

up to 3000 V									
Type	V _{RRM} [V] V _{DSM} = V _{DRM} V _{RSM} = V _{RRM} + 50 V	I _{FSM} [kA] @10 ms, T _{vj max}	∫i ² dt [A ² s · 10 ³] @ 10 ms T _{vj max}	I _{FAVM} /T _c [A/°C] @ 180° el sin	V _(TO) [V] @T _{vj max}	r _T [mΩ] @T _{vj max}	R _{thJC} [K/kW] @ 180° el sin	T _{vj max} [°C]	Outline / page
									
D 121 N 20 B	2000	2,6	33,8	120/130	0,72	1,90	324,0	180	DSW27/7.22
D 121 K 20 B	2000	2,4	28,8	120/113	0,72	1,90	434,0	180	DSW27/7.22
D 251 N 20 B	2000	5,3	140,5	250/130	0,80	0,85	151,0	180	DSW27/7.22
D 251 N 20 E	2000	5,3	140,5	250/130	0,80	0,85	151,0	180	DFL36/7.22
D 251 K 20 B	2000	4,7	110,5	250/102	0,80	0,85	236,0	180	DSW27/7.22
D 251 K 20 E	2000	4,7	110,5	250/102	0,80	0,85	236,0	180	DFL36/7.22
D 400 N 20 B	2000	9,8	480,2	400/130	0,70	0,62	95,0	180	DSW41/7.22
D 400 K 16 B	1600	9,8	480,2	400/130	0,70	0,62	95,0	180	DSW41/7.22
D 770 N 20 T	2000	6,0	180,0	767/100	0,81	0,54	57,0	180	D42.14K0/7.23
D 820 N 28 T	2800	9,0	405,0	818/100	0,83	0,52	39,0	160	D42.14K0/7.23
D 950 N 22 T	2200	10,3	525,0	950/100	0,70	0,50	45,0	180	D42.14K0/7.23
D 1030 N 26 T	2600	14,5	1051,0	1030/100	0,82	0,28	38,0	160	D48.14K0/7.23
D 2200 N 24 T VF	2400	35,0	6125,0	2200/100	0,83	0,15	17,0	160	D75.26K0/7.24
D 2520 N 22 T VF	2200	35,0	6125,0	2520/100	0,73	0,10	22,0	175	D75.26K0/7.24
D 2650 N 24 T	2400	33,5	5611,0	2650/100	0,82	0,15	16,9	180	D75.26K0/7.24
D 4201 N 22 T	2200	73,5	27000,0	4830/100	0,67	0,08	9,2	160	D120.26K/7.24
D 4810 N 28 T VF	2800	60,0	18000,0	4710/100	0,83	0,06	8,0	160	D111.26K0/7.24



...VF-> VF-class printed on housing

Rectifier Diodes

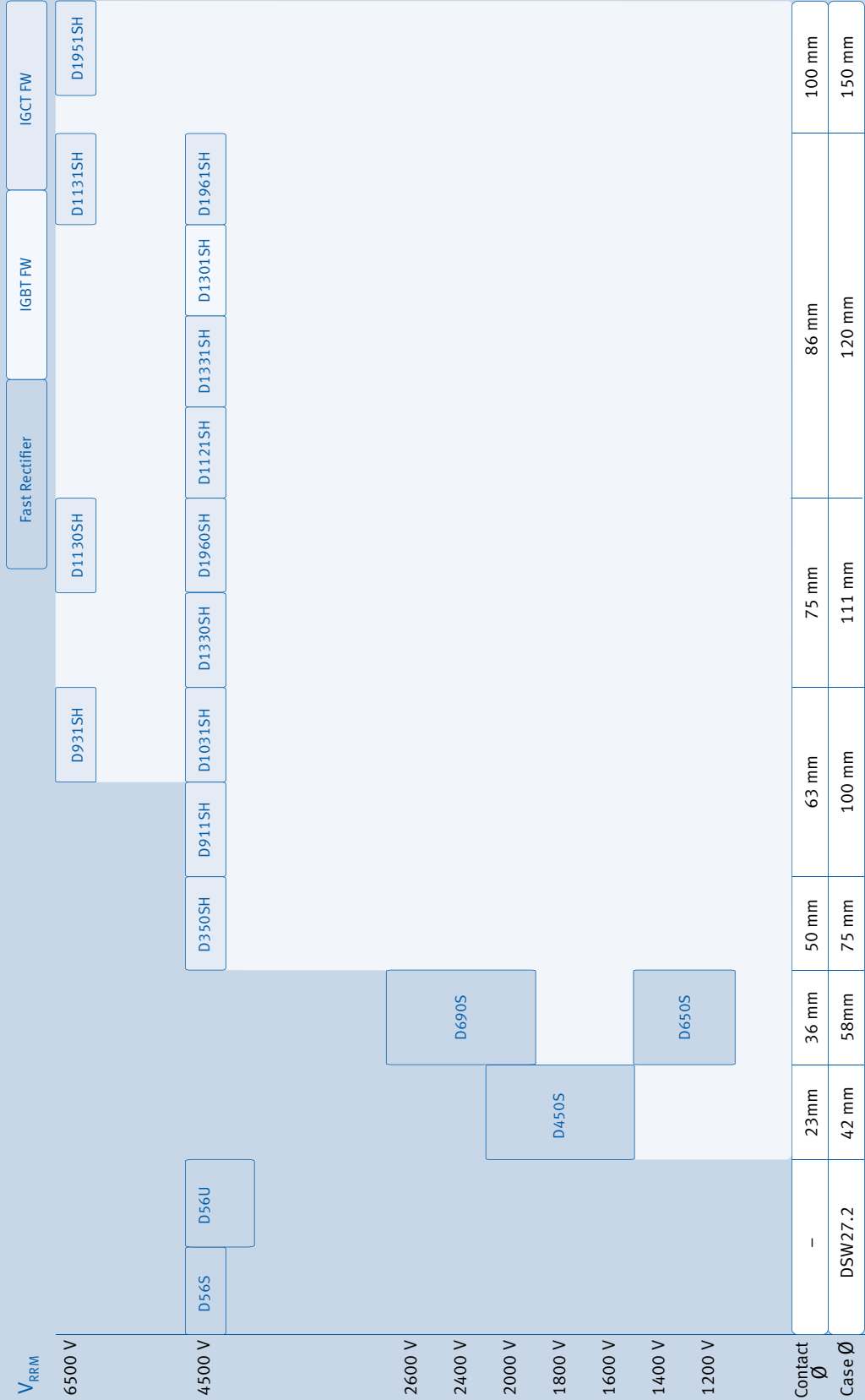
up to 5000 V									 
Type	V_{RRM} [V] $V_{DSM}=V_{DRM}$ $V_{RSM}=V_{RRM}+50\text{ V}$	I_{FSM} [kA] @10 ms, $T_{vj\text{ max}}$	$\int i^2 dt$ [A ² s · 10 ³] @ 10 ms $T_{vj\text{ max}}$	I_{FAVM}/T_c [A/°C] @ 180° el sin	$V_{(TO)}$ [V] @ $T_{vj\text{ max}}$	r_T [mΩ] @ $T_{vj\text{ max}}$	R_{thJC} [K/kW] @ 180° el sin	$T_{vj\text{ max}}$ [°C]	Outline / page
									
D 270 N 36 T	3600	4,0	80	270/100	0,86	1,54	98,0	150	D58.26K0/7.23
D 475 N 36 B	3600	10,9	594	475/100	0,77	0,61	85,0	160	DSW41.1/7.22
D 740 N 48 T	4800	11,0	605	750/100	0,85	0,65	39,0	160	D58.26K0/7.23
D 850 N 40 T	4000	12,8	819	850/100	0,84	0,49	38,0	160	D58.26K0/7.23
D 1800 N 48 T	4800	27,5	3781	1800/100	0,85	0,25	16,9	160	D75.26K0/7.24
D 3501 N 42 T	4200	56,0	15700	3690/100	0,73	0,13	9,2	160	D120.35K/7.24
D 5201 N 50 T	5000	110,0	60500	5170/100	0,63	0,09	5,8	160	D150.35K/7.25
D 6001 N 50 T	5000	110,0	60500	6070/100	0,80	0,09	4,6	160	D150.26K/7.25

up to 10000 V									 
Type	V [V] $V_{DSM}=V_{DRM}$ $V_{RSM}=V_{RRM}+50\text{ V}$	I_{FSM} [kA] @10 ms, $T_{vj\text{ max}}$	$\int i^2 dt$ [A ² s · 10 ³] @ 10 ms $T_{vj\text{ max}}$	I_{FAVM}/T_c [A/°C] @ 180° el sin	$V_{(TO)}$ [V] @ $T_{vj\text{ max}}$	r_T [mΩ] @ $T_{vj\text{ max}}$	R_{thJC} [K/kW] @ 180° el sin	$T_{vj\text{ max}}$ [°C]	Outline / page
									
D 711 N 68 T	6800	10,5	550	790/100	0,84	0,87	31,5	160	D58.26K/7.23
D 1481 N 68 T	6800	24,5	3000	1650/100	0,75	0,42	15,8	160	D76.26K/7.24
D 3001 N 68 T	6800	53,0	14040	2900/100	0,84	0,22	9,2	160	D120.35K/7.24
D 3040 N 68 T	6800	53,0	14040	3040/100	0,84	0,22	7,3	160	D111.26K0/7.24
D 3041 N 68 T	6800	53,0	14040	3040/100	0,84	0,22	8,55	160	D120.26K/7.24
D 471 N 90 T	9000	10,0	500	565/100	1,04	1,78	31,5	160	D58.26K/7.23
D 2601 N 90 T	9000	50,0	12500	2240/100	0,94	0,41	8,55	160	D120.26K/7.24





Welding Diodes

up to 600 V									
Type	V_{RRM} [V] $V_{DSM}=V_{DRM}$ $V_{RSM}=V_{RRM}+50\text{ V}$	I_{FSM} [kA] @10 ms, $T_{vj\text{ max}}$	$\int i^2 dt$ [A ² s · 10 ³] @ 10 ms $T_{vj\text{ max}}$	I_{FAVM}/T_c [A/°C] @ 180° el sin	$V_{(TO)}$ [V] @ $T_{vj\text{ max}}$	r_T [mΩ] @ $T_{vj\text{ max}}$	R_{thJC} [K/kW] @ 180° el sin	$T_{vj\text{ max}}$ [°C]	Outline / page
									
25 DN 06	600	12,8	813	1145/155	0,70	0,19	17,40	180	25DN06/7.25
38 DN 06	600	32,3	5200	3885/120	0,66	0,06	12,40	180	38DN06/7.25
46 DN 06	600	52,0	13500	5100/118	0,70	0,05	9,35	180	46DN06/7.25
56 DN 06	600	70,0	24500	6400/116	0,70	0,04	6,20	180	56DN06/7.25
56 DN 06 B01	600	70,0	24500	8400/110	0,66	0,04	5,8	180	56DN06B01/7.25
65 DN 06	600	95,0	45000	8470/98	0,70	0,03	4,70	180	65DN06/7.25

Overview IGBT/IGBT-Freewheeling Diodes & Fast Rectifier Diodes



IGCT – Freewheeling Diodes





  										
Type 	V_{RRM} [V]	$V_R(D)$ [kV]* $T_c = 25$	I_{FSM} [kA] sin, 10 ms $T_{vj\ max}$	$\int i^2 dt$ [A ² s · 10 ³] sin, 10 ms $T_{vj\ max}$	V_F [V] @ $I_F = 2,5\ kA$ $T_{vj\ max}$	I_{RM} [A]** @ $di/dt = 1000\ A/\mu s$, $I_{FM} = 2,5\ kA$, $T_{vj\ max}$	Q_{rr} [mAs]** @ $di/dt = 1000\ A/\mu s$, $I_{FM} = 2,5\ kA$, $T_{vj\ max}$	R_{thJC} [K/kW] @DC	$T_{vj\ max}$ [°C]	Outline / page
◆ D 350 SH45 T	4500	2,8	13	845	4,5	tdb	tdb	41,3	140	D75.26K/7.23
D 911 SH45 T	4500	2,8	17	1445	6,0	1200	2,8	10,0	140	D100.26K/7.24
D 1031 SH45 T	4500	2,8	23	2645	4,2	1500	3,5	10,0	140	D100.26K/7.24
D 1121 SH45 T	4500	2,8	17,5	1530	5,6	1200	3,5	7,5	140	D120.26K/7.24
D 1330 SH45 T	4500	2,8	28	3920	4,2	1500	3,5	7,3	140	D111.26K0/7.24
D 1331 SH45 T	4500	2,8	28	3920	4,2	1500	3,5	7,5	140	D120.26K/7.24
D 1960 SH45 T	4500	2,8	40	8000	2,5	2250	12,0	7,3	140	D111.26K0/7.24
D 1961 SH45 T	4500	2,8	40	8000	2,5	2250	12,0	7,5	140	D120.26K/7.24
D 931 SH45 T	6500	3,2	16	1280	5,6	1300	3,5	10,0	140	D100.26K/7.24
D 1130 SH65 T	6500	3,2	22	2400	5,6	1300	3,5	7,3	140	D111.26K0/7.24
D 1131 SH65 T	6500	3,2	22	2400	5,6	1300	3,5	7,5	140	D120.26K/7.24
D 1951 SH65 T	6500	3,2	44	9680	4,0	1800	5,0	4,5	140	D150.26K/7.25

*) Estimated failure rate $l \sim 100\ fit$

**) Clamp circuit $L = 0,25\ \mu H$

◆ New type

IGBT – Freewheeling Diodes



  										
Type 	V_{RRM} [V]	$V_R(D)$ [kV]* $T_c = 25$	I_{FSM} [kA] sin, 10 ms $T_{vj\ max}$	$\int i^2 dt$ [A ² s · 10 ³] sin, 10 ms $T_{vj\ max}$	V_F [V] @ $I_F = 2,5\ kA$ $T_{vj\ max}$	I_{RM} [A]** @ $di/dt = 5000\ A/\mu s$, $I_{FM} = 2,5\ kA$, $T_{vj\ max}$	Q_{rr} [mAs]** @ $di/dt = 5000\ A/\mu s$, $I_{FM} = 2,5\ kA$, $T_{vj\ max}$	R_{thJC} [K/kW] @DC	$T_{vj\ max}$ [°C]	Outline / page
◆ D 1301 SH45T	4500	2,8	28	3920	4,0	3600	6,0	7,5	140	D120.26K/7.24



*) Estimated failure rate $l \sim 100\ fit$



**) Clamp circuit $L = 0,25\ \mu H$

◆ New type

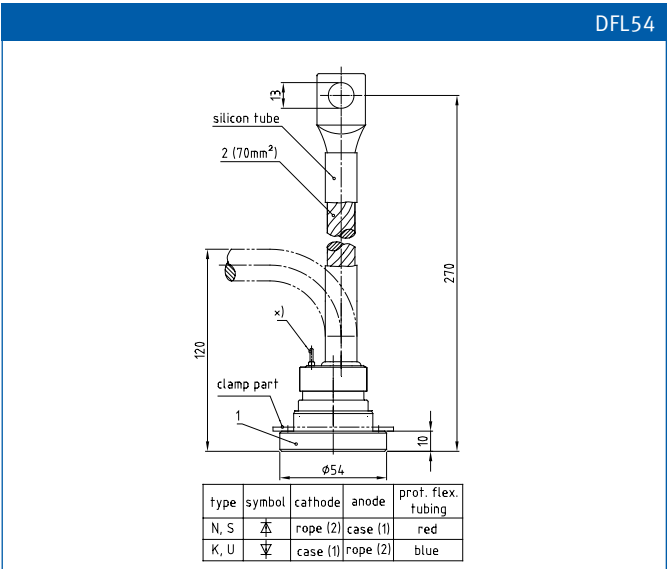
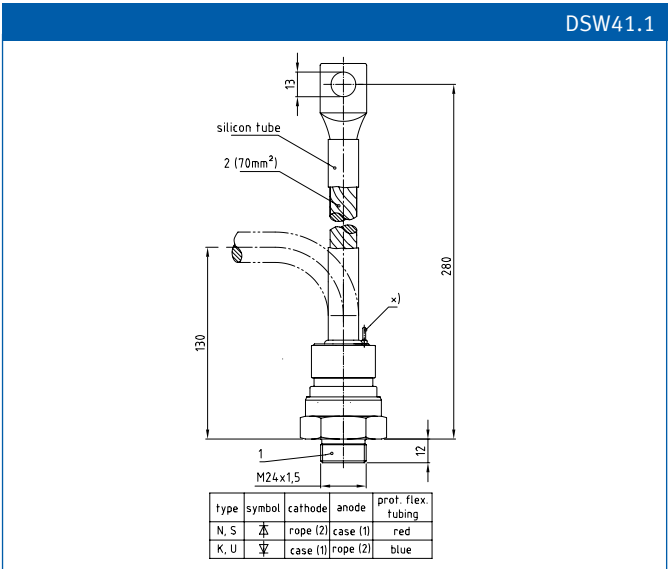
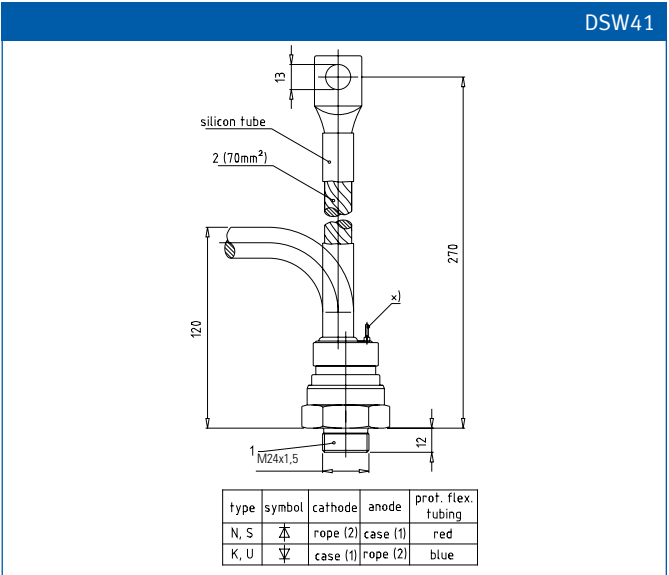
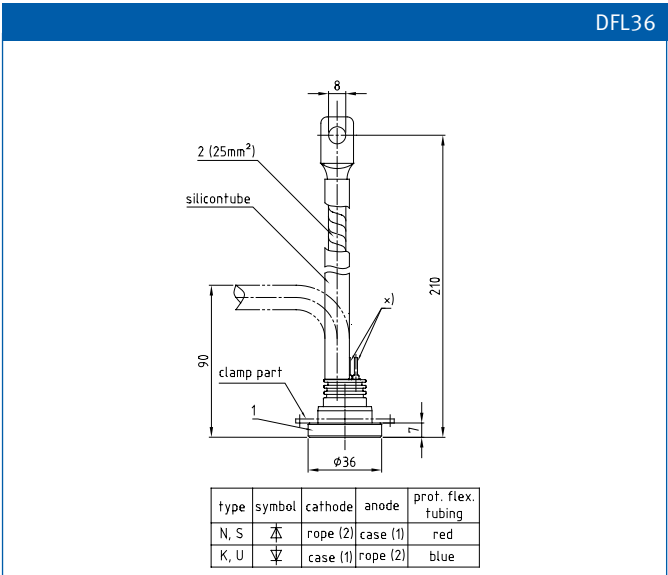
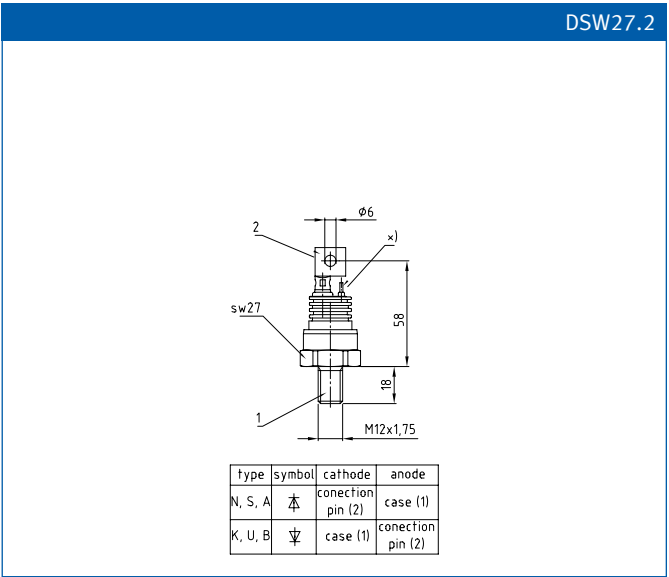
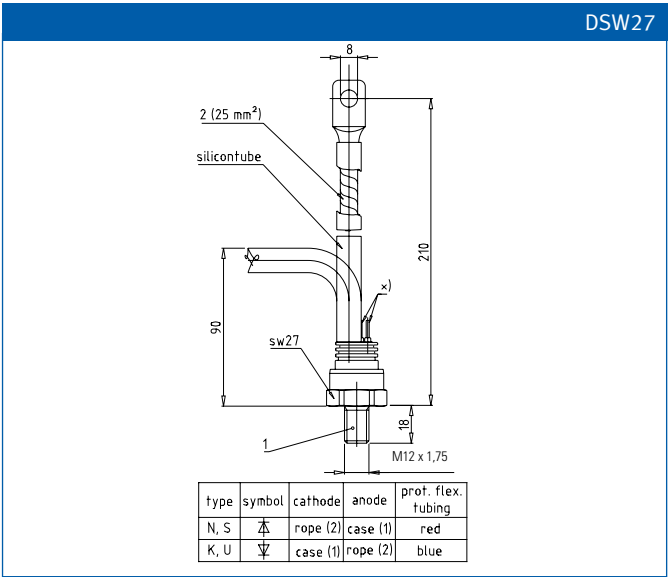
Fast Rectifier Diodes

up to 1800 V 										
Type 	V_{RRM} [V] $V_{DSM}=V_{DRM}$ $V_{RSM}=V_{RRM}+50\text{ V}$	I_{FSM} [kA] @10 ms, $T_{vj\text{ max}}$	$\int i^2 dt$ [A ² s · 10 ³] @ 10 ms $T_{vj\text{ max}}$	I_{FAVM}/T_c [A/°C] @ 180° el sin	V_{TO} [V] @ $T_{vj\text{ max}}$	r_T [mΩ] @ $T_{vj\text{ max}}$	I_{RM} [A] @ $i_F = I_{FAVM}$, di/dt = 50 A/μs	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\text{ max}}$ [°C]	Outline / page
D 650 S14T	1400	10,1	510	650/96	1,0	0,45	122	48	150	D58.26K0/7.23

up to 2600 V 										
Type 	V_{RRM} [V] $V_{DSM}=V_{DRM}$ $V_{RSM}=V_{RRM}+50\text{ V}$	I_{FSM} [kA] @10 ms, $T_{vj\text{ max}}$	$\int i^2 dt$ [A ² s · 10 ³] @ 10 ms $T_{vj\text{ max}}$	I_{FAVM}/T_c [A/°C] @ 180° el sin	V_{TO} [V] @ $T_{vj\text{ max}}$	r_T [mΩ] @ $T_{vj\text{ max}}$	I_{RM} [A] @ $i_F = I_{FAVM}$, di/dt = 50 A/μs	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\text{ max}}$ [°C]	Outline / page
D 450 S20T	2000	4,6	106	443/100	1,0	0,9	160	57	150	D42.14K0/7.23
D 690 S26T	2600	11,5	661	690/100	1,0	0,5	230	39	150	D58.26K0/7.23

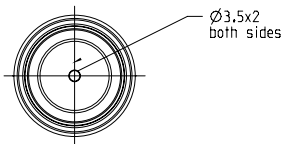
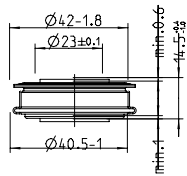
up to 6000 V 										
Type 	V_{RRM} [V] $V_{DSM}=V_{DRM}$ $V_{RSM}=V_{RRM}+50\text{ V}$	I_{FSM} [kA] @10 ms, $T_{vj\text{ max}}$	$\int i^2 dt$ [A ² s · 10 ³] @ 10 ms $T_{vj\text{ max}}$	I_{FAVM}/T_c [A/°C] @ 180° el sin	V_{TO} [V] @ $T_{vj\text{ max}}$	r_T [mΩ] @ $T_{vj\text{ max}}$	I_{RM} [A] @ $i_F=150\text{ A}$, di/dt = 200 A/μs	R_{thJC} [K/kW] @180 ° el sin	$T_{vj\text{ max}}$ [°C]	Outline / page
D 56 S45C	4500	1,35	9,1	56/85	1,64	8	230	260	125	DSW27.2/7.22
D 56 U45C	4500	1,2	7,2	56/73	1,64	8	230	340	125	DSW27.2/7.22

Outlines



x) = evacuation pipe

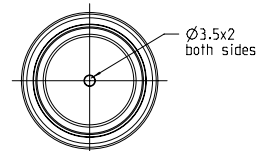
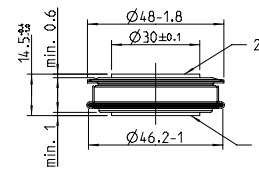
D42.14K0



strike distance: 9mm
creepage distance: 10mm

overall height based
on contact pressure

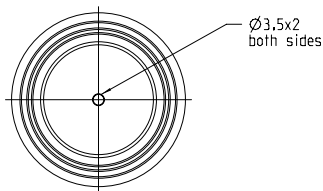
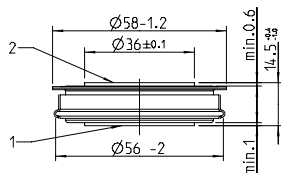
D48.14K0



strike distance: 9mm
creepage distance: 10mm

overall height based
on contact pressure

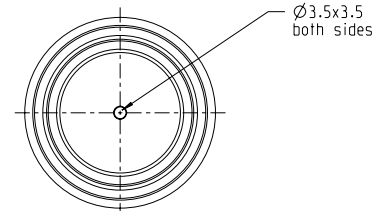
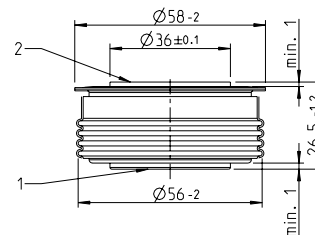
D58.14K0



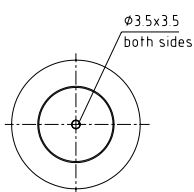
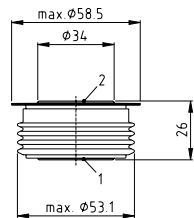
strike distance: 8.0mm
creepage distance: 9.0mm

overall height based
on contact pressure

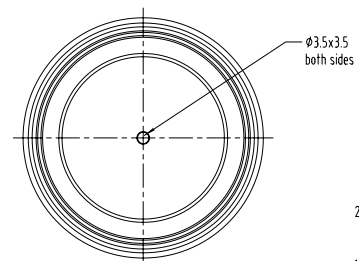
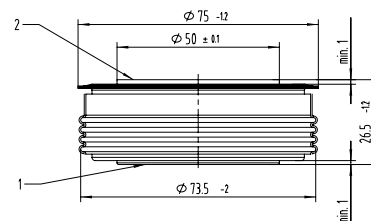
D58.26K0



D58.26K

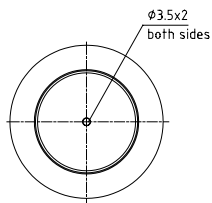
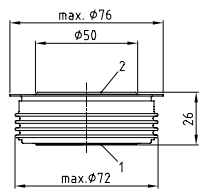


D75.26K0

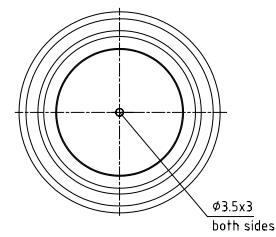
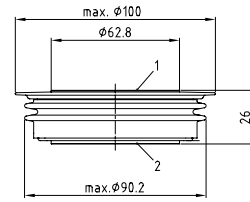


x) = evacuation pipe

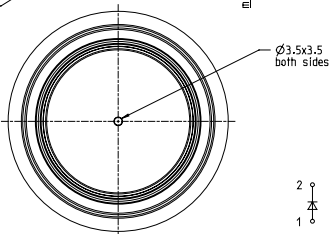
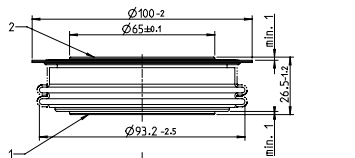
D76.26K



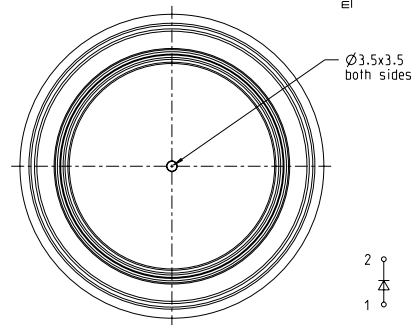
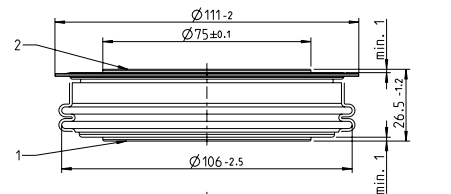
D100.26K



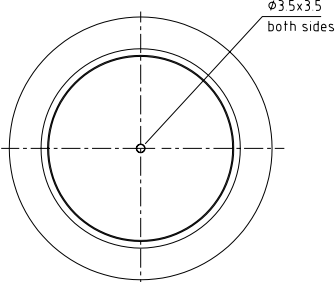
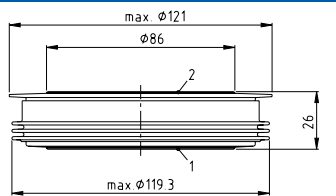
D100.26K0



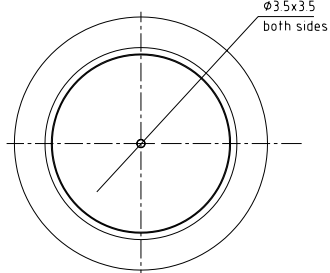
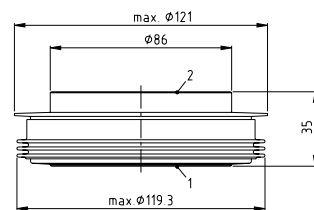
D111.26K0



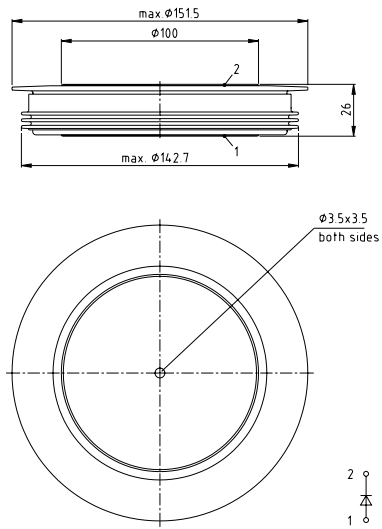
D120.26K



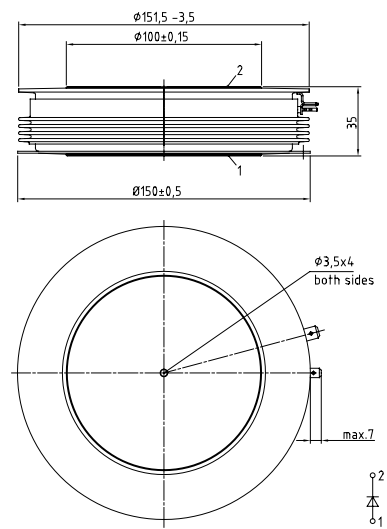
D120.35K



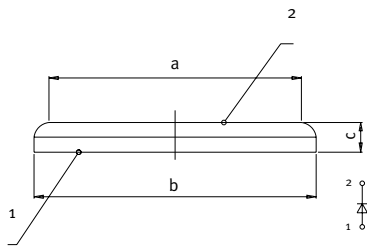
D150.26K



D150.35K



welding diodes



Designation	a [mm]	b [mm]	c [mm]
25DN06	Ø 22	Ø 25	3,6
38DN06	Ø 34	Ø 38	4,0
46DN06	Ø 43	Ø 46	4,0
56DN06	Ø 50	Ø 56	5,0
56DN06B01	Ø 50	Ø 56	5,0
65DN06	Ø 58	Ø 65	5,0

Clamping Forces for Diode Discs

Rectifier Diodes

Typ	Recommended Clamping force range [kN]	Disc diameter [mm]	Outline
D 270 N...T	3,2...7,6	58	D58.26K0
D 471 N...T	10,0...16,0	58	D58.26K
D 711 N...T	10,0...16,0	58	D58.26K
D 740 N...T	10,0...24,0	58	D58.26K0
D 770 N...T	3,2...7,6	42	D42.14K0
D 820 N...T	6,0...15,0	48	D48.14K0
D 850 N...T	10,0...24,0	58	D58.26K0
D 950 N...T	6,0...12,0	42	D42.14K0
D 970 N...T	3,8...7,6	42	D42.14K0
D 1030 N...T	10,0...24,0	58	D58.26K0
D 1050 N...T	10,0...24,0	58	D58.26K0
D 1230 N...T	6,0...15,0	48	D48.14K0
D 1481 N...T	15,0...36,0	75	D76.26K
D 1800 N...T	24,0...60,0	75	D75.26K0
D 2200 N...T	24,0...60,0	75	D75.26K0
D 2450 N...T	12,0...24,0	58	D58.14K0
D 2520 N...T	15,0...24,0	75	D75.26K0
D 2601 N...T	36,0...52,0	120	D120.26K
D 2601 NH...T	36,0...52,0	120	D120.26K
D 2650 N...T	24,0...60,0	75	D75.26K0
D 3001 N...T	36,0...52,0	120	D120.35K
D 3040 N...T	42,0...95,0	111	D111.26K0
D 3041 N...T	36,0...52,0	120	D120.26K
D 3501 N...T	36,0...52,0	120	D120.35K
D 4201 N...T	36,0...52,0	120	D120.35K
D 4810 N...T	42,0...95,0	111	D111.26K0
D 5201 N...T	63,0...91,0	150	D150.35K
D 5810 N...T	30,0...60,0	75	T75.26K0
D 6001 N...T	63,0...91,0	150	D150.26K
D 8320 N...T	40,0...80,0	100	D100.26K0

Clamping Forces for Diode Discs

Welding Diodes

Typ	Recommended Clamping force range [kN]	Disc diameter [mm]
25 DN 06	4,0...8,0	25
38 DN 06	20,0...30,0	38
46 DN 06	30,0...45,0	46
56 DN 06	40,0...60,0	56
56 DN 06 B01	40,0...60,0	56
65 DN 06	55,0...80,0	65

IGCT-Freewheeling Diodes

Typ	Recommended Clamping force range [kN]	Disc diameter [mm]	Outline
D 350 SH	15,0...24,0	75	D75.26K0
D 911 SH	27,0...45,0	100	D100.26K
D 931 SH	27,0...45,0	100	D100.26K
D 1031 SH	27,0...45,0	100	D100.26K
D 1121 SH	36,0...52,0	120	D120.26K
D 1130 SH	42,0...95,0	111	D111.26K0
D1131 SH	36,0...52,0	120	D120.26K
D 1330 SH	42,0...95,0	111	D111.26K0
D 1331 SH	36,0...52,0	120	D120.26K
D 1951 SH	55,0...91,0	150	D150.26K
D 1960 SH	42,0...95,0	111	D111.26K0
D 1961 SH	36,0...52,0	120	D120.26K

IGBT-Freewheeling Diodes

Typ	Recommended Clamping force range [kN]	Disc diameter [mm]	Outline
D 1301 SH	36,0...52,0	120	D120.26K

Fast Rectifier Diodes

Typ	Recommended Clamping force range [kN]	Disc diameter [mm]	Outline
D 450 S	3,2...7,6	42	D42.14K0
D 650 S	6,0...14,5	58	D58.26K0
D 690 S	10,0...24,0	58	D58.26K0

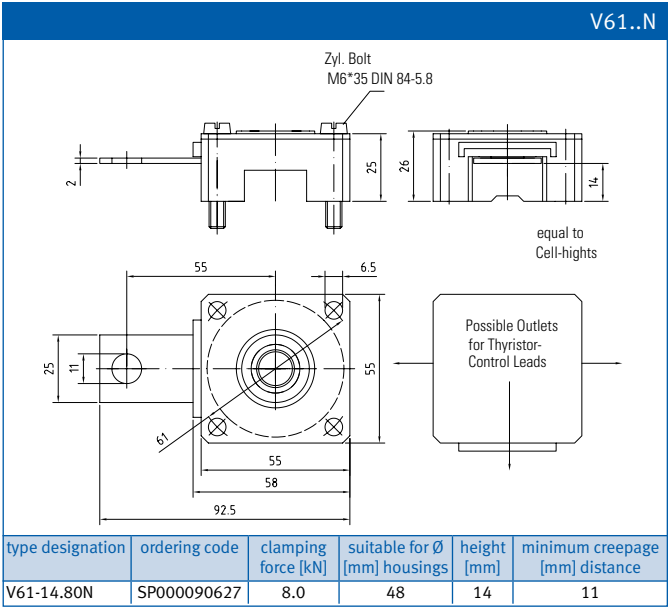
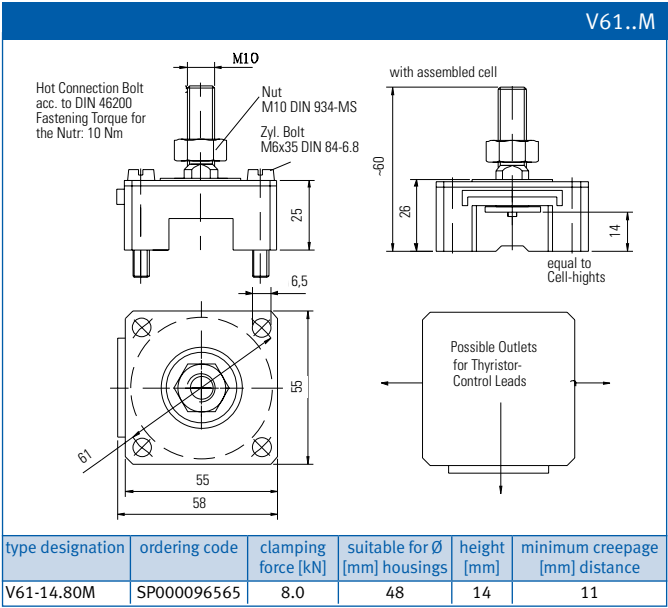
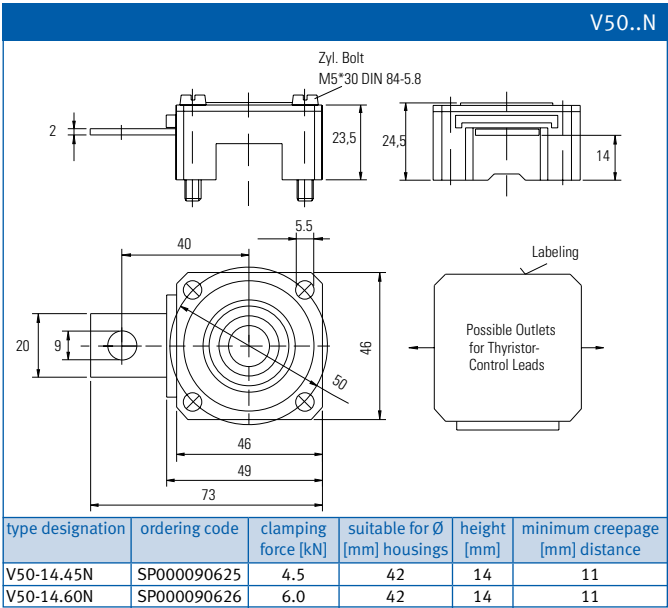
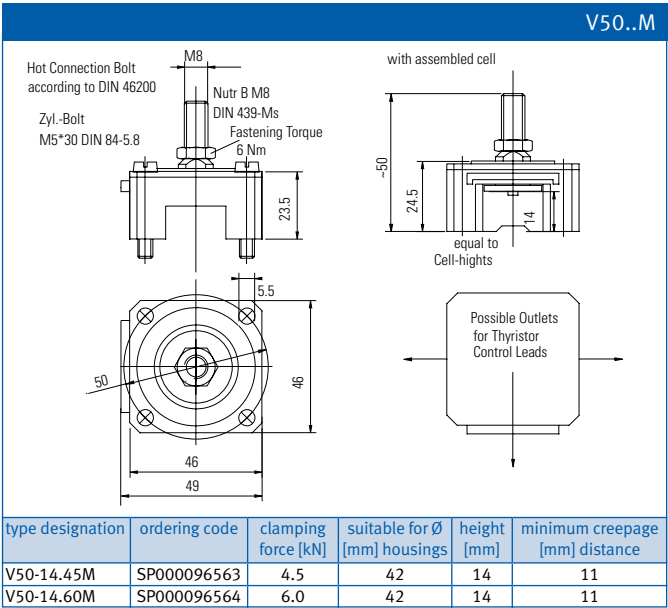
Package Units for Diode Discs

Type	Outline	Packing units
D 270 N	D58.26K0	3
D 471 N	D58.26K	3
D 711 N	D58.26K	3
D 740 N	D58.26K0	3
D 770 N	D42.14K0	12
D 820 N	D48.14K0	10
D 850 N	D58.26K0	3
D 950 N	D42.14K0	12
D 970 N	D42.14K0	12
D 1030 N	D58.26K0	3
D 1050 N	D58.26K0	3
D 1230 N	D48.14K0	10
D 1481 N	D76.26K	2
D 1800 N	D75.26K0	2
D 2200 N	D75.26K0	2
D 2450 N	D58.14K0	6
D 2520 N	D75.26K0	2
D 2601 N	D120.26K	2
D 2601 NH	D120.26K	2
D 2650 N	D75.26K0	2
D 3001 N	D120.35K	1
D 3040 N	D111.26K0	2
D 3041 N	D120.26K	2
D 3501 N	D120.35K	1
D 4201 N	D120.35K	1
D 4810 N	D111.26K0	2
D 5201 N	D150.35K	1
D 5810 N	D75.26K0	2
D 6001 N	D150.26K	1
D 8320 N	D100.26K0	3
D 350 SH	D75.26K0	2
D 911 SH	D100.26K	3
D 931 SH	D100.26K	3
D 1031 SH	D100.26K	3
D 1121 SH	D120.26K	2
D 1130 SH	D111.26K0	2
D1131 SH	D120.26K	2
D 1330 SH	D111.26K0	2
D 1331 SH	D120.26K	2
D 1951 SH	D150.26K	1
D 1960 SH	D111.26K0	2
D 1961 SH	D120.26K	2
D 1301 SH	D120.26K	2
D 450 S	D42.14K0	12
D 650 S	D58.26K0	3
D 690 S	D58.26K0	3

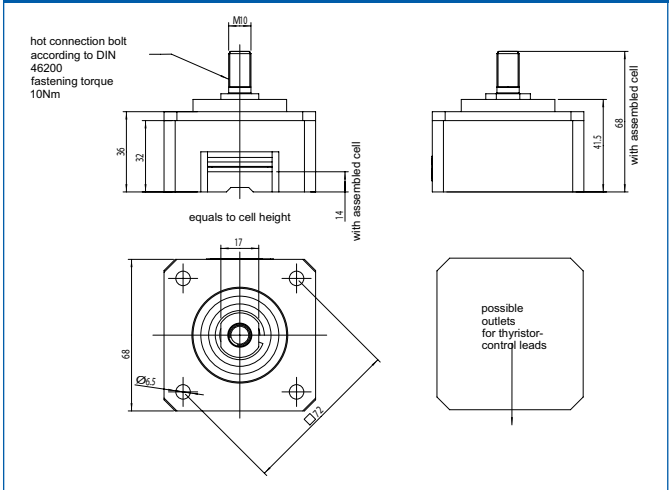
Clamping Units for Disc Type Devices

Salesname	Packing Units	Clamping force [kN]	Disc diameter [mm]	height [mm]	min. creeping distance [mm]	Ordering Code	Outline/page
V50-14.45M	21	4,5	42	14	11	SP000096563	V50...M/7.30
V50-14.45N	14	4,5	42	14	11	SP000090625	V50...N/7.30
V50-14.60M	21	6,0	42	14	11	SP000096564	V50...M/7.30
V50-14.60N	14	6,0	42	14	11	SP000090626	V50...N/7.30
V61-14.80M	12	8,0	48	14	11	SP000096565	V61...M/7.30
V61-14.80N	12	8,0	48	14	11	SP000090627	V61...N/7.30
V72-14.150M	10	15,0	58	14	11	SP000096566	V72...M/7.31
V72-26.80M	10	8,0	58	26	23	SP000096569	V72...M/7.31
V72-26.120M	10	12,0	58	26	23	SP000096567	V72...M/7.31
V72-26.150M	10	15,0	58	26	23	SP000096568	V72...M/7.31
V89-26.170N	4	17,0	75	26	26	SP000358597	V89...N/7.31
V89-26.300N	4	30,0	75	26	26	SP000090624	V89...N/7.31
V89-26.400N	4	40,0	75	26	26	SP000090662	V89...N/7.31
V100-35.200N	3	20,0	75	26	26	SP000090635	V100...N/7.31

Outlines

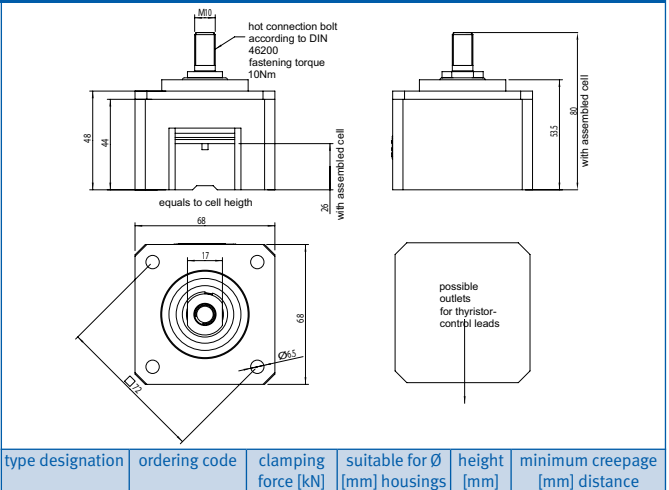


V72-14..M



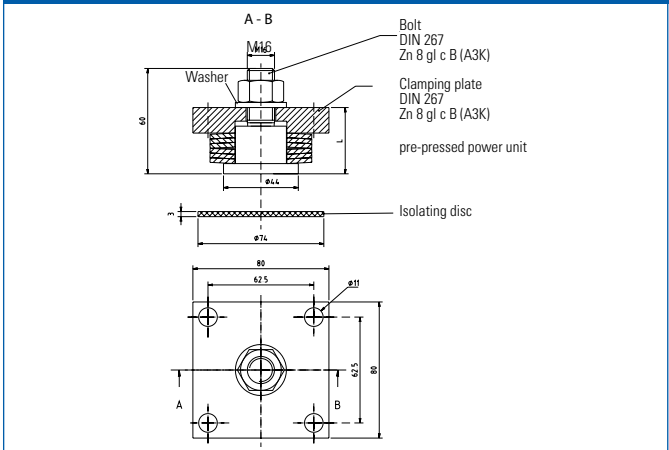
type designation	ordering code	clamping force [kN]	suitable for Ø [mm] housings	height [mm]	minimum creepage [mm] distance
V72-14.150M	SP000096566	15.0	58	14	11

V72-26..M



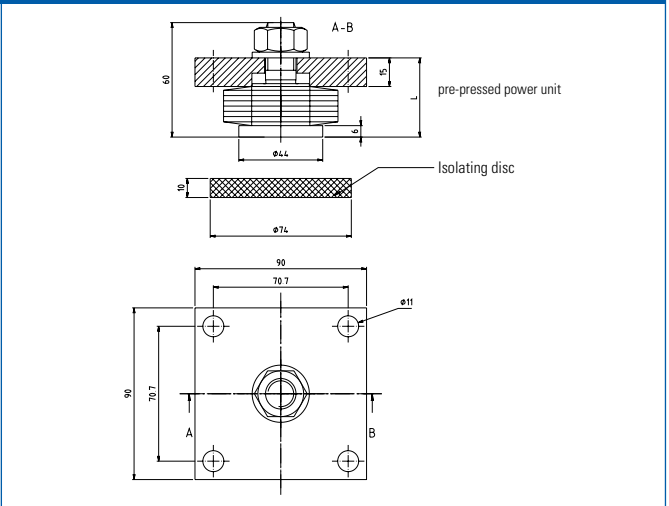
type designation	ordering code	clamping force [kN]	suitable for Ø [mm] housings	height [mm]	minimum creepage [mm] distance
V72-26.80M	SP000096569	8.0	58	26	23
V72-26.120M	SP000096567	12.0	58	26	23
V72-26.150M	SP000096568	15.0	58	26	23

V 89



type designation	ordering code	clamping force [kN]	suitable for housings	
			Ø [mm]	height [mm]
V89-26.170N	SP000358597	17	75	26
V89-26.300N	SP000090624	30	75	26
V89-26.400N	SP000090662	40	75	26

V 100



type designation	ordering code	clamping force [kN]	suitable for housings	
			Ø [mm]	height [mm]
V100-35.200N	SP000090635	20	75	26

Links

Application Notes, Product Briefs, Flyers and Brochures	Type	Redirects
Technical Information for Bipolar Semiconductors (english)	Application Note	http://www.infineon.com/technical-information-appnote
Technical Information for Bipolar Semiconductors (german)	Application Note	http://www.infineon.com/technical-information-appnote-german
IFBIP Company Brochure	Brochure	http://www.infineon.com/ifbip-company-brochure
ifbip shop	Webpage	http://www.ifbip-shop.com
Thyristor and Diode Modules	Product Brief	http://www.infineon.com/thyristor-and-diodes-product-brief
4.5kV/6.5kV Soft recovery FWDs for IGCTs and PP IGBTs	Product Brief	http://www.infineon.com/www.infineon.com/sr-fwd-product-brief
6.5 kV SCR series for Medium Voltage Soft starters	Product Brief	http://www.infineon.com/6500v-scr-product-brief
540A/8 kV 2" Light triggered Thyristor	Product Brief	http://www.infineon.com/8000v-ltt-scr-product-brief
9.5 kV SCR for Medium Voltage Soft starters	Product Brief	http://www.infineon.com/9500v-scr-product-brief
Clamping Forces for disc type devices	Product Information	http://www.infineon.com/clamping-forces-product-information
Standard gate leads for disc type devices	Product Information	http://www.infineon.com/gate-leads-for-discs-product-information

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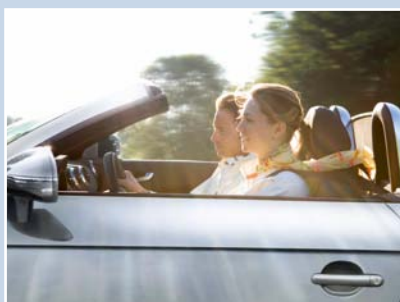
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