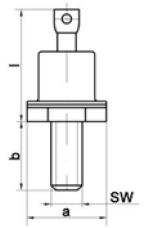
DIODES

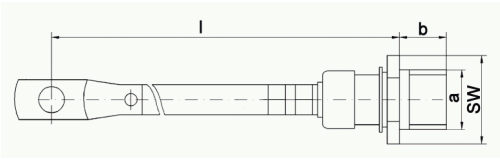
- RECTIFIER DIODES
- AVALANCHE DIODES
- FAST DIODES
- FAST AVALANCHE DIODES
- ROTOR DIODES
- SILICON SURGE VOLTAGE SUPPRESSORS

RECTIFIER DIODES (STUD DESIGN)

Type	V_{RRM}	$I_{F(AV)}$ (T_C,°C)	I_{FSM} 10 ms	V_{FM}/I_{FM}	V_{TO}	r_T	$R_{th(j-c)}$	T_{VJM}	M_d	Case
	V	A	kA	V/A	V	mΩ	°C/W	°C	Nm	
D212-10, D212-10X	100-1600	10(150)	0.25	1.35/31	0.94	19.600	2.70	190	0.9-1.1	SD1
D212-16, D212-16X	100-1600	16(150)	0.27	1.35/50	0.84	11.250	1.90			
D212-25, D212-25X	100-1600	25(150)	0.34	1.35/78	0.78	8.150	1.25			
D222-32, D222-32	100-1600	32(150)	0.46	1.35/100	0.86	6.500	0.90	190	1.4-1.8	SD2
D222-40, D222-40X	100-1600	40(150)	0.55	1.35/125	0.80	4.623	0.80			
D232-50, D232-50X	100-1600	50(150)	1.20	1.35/157	0.92	2.740	0.60	190	5.3-5,7	SD3
D232-63, D232-63X	100-1600	63(150)	1.30	1.35/198	0.82	2.850	0.50			
D232-80, D232-80X	100-1600	80(150)	1.30	1.35/250	0.76	2.360	0.40			
D141-100	300-1600	100(135)	2.20	1.35/314	0.95	1.600	0.40	190	6-10	SD4
D141-100X	300-1600	100(135)	2.00	1.45/314	0.95	1.600	0.40			
D151-125	300-1600	125(140)	3.00	1.35/392	0.90	1.300	0.30	190	10-20	SD5
D151-160	300-1600	160(140)	4.50	1.35/502	0.90	1.000	0.24			
D161-200	300-1800	200(145)	5.50	1.35/628	0.90	0.850	0.15	190	20-30	SD6
D161-200X	300-1600	200(125)	5.50	1.35/628	0.90	0.850	0.15			
D161-250	300-1800	250(140)	6.40	1.35/785	0.90	0.640	0.15			
D161-250X	300-1600	250(140)	6.40	1.45/785	0.90	0.765	0.14			
D161-320	300-1600	320(130)	7.50	1.35/1005	0.90	0.500	0.15			
D161-320X	300-1600	320(130)	7.50	1.50/1005	0.90	0.650	0.13			
D161-400	300-1600	400(124)	8.25	1.40/1256	0.90	0.350	0.13			
D271-250	2600-3000	310(104)	4.5	1.60/785	0.90	1.40	0.090	160	25-35	SD7
D171-400	300-1800	400(145)	14.00	1.45/1256	0.90	0.560	0.085	190		



SD1...SD3



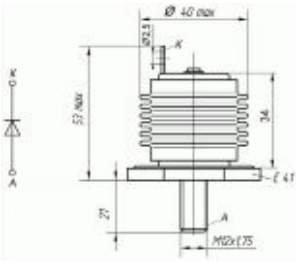
SD4...SD7

Case	a, mm	b, mm	l, mm	SW
SD1	M5	11	18	11
SD2	M6	12	26	14
SD3	M8	14	35	17
SD4	M10	13	150	25
SD5	M12	18	150	30,5
SD6	M20x1.5	16	200	35,5
SD7	M24x1.5	19	250	45,5

NEW HIGH VOLTAGE STUD DESIGN DIODE D172-40-60

Features:
- Hermetic metal-ceramic case
- Internal pressure contacts, providing high cycle load resistance
- Threaded stud M12
- V_{RRM} up to 6000 V

Applications:
- Non-controlled and half-controlled high voltage rectifier bridges
- All applications for high power rectifier diodes



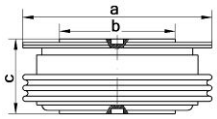
Type	V_{RRM}	I_{RRM}	$I_{F(AV)}$	I_{FSM}	V_{FM}/I_{FM}	$R_{th(j-c)}$	T_{VJM}
			T_C =85°C	10ms			
	V	mA	A	A	V/A	°C/W	°C
D172-40	5000-6000	15	40	250	1.55/125	0.45	125

RECTIFIER DIODES (PRESS PACK)

Type	V_{RRM}	$I_{F(AV)}$ (T_C= 85 ºC)	I_{FSM} 10 ms	V_{TO}	r_T	$R_{th(j-c)}$	T_{VJM}	F	Case
	V	A	kA	V	mΩ	°C/W	°C	kN	
Up to 1200V									
B7-200	300	200(T_C=150ºC)	2.9	1.18	0.800	0.060	200	4	PD10
D123-630	200-1000	880	9.0	0.72	0.350	0.080	190	6	PD21
D133-1600	200-1000	1810	18	0.72	0.147	0.036	175	10	PD32
D143-2000	200-1000	2400	24	0.73	0.110	0.027	175	15	PD42
D153-6300	200-400	6930	50	0.80	0.026	0.011	180	22	PD50
D253-4000	200-1000	4100	65	0.82	0.037	0.017	190	26	PD53
D163-4000	200-1000	4700	55	0.73	0.040	0.015	175	33	PD63
D173-6300	200-1000	7530	75	0.73	0.025	0.010	175	45	PD73
Up to 2200V									
D123-500	1000-2200	690	7.5	0.77	0.540	0.080	180	6	PD21
D133-1250	1200-2200	1480	16	0.77	0.250	0.036	180	10	PD32
D243-1600	1200-2200	2000	22	0.77	0.180	0.027	175	15	PD42
D153-2500	1200-2200	3440	37	0.77	0.080	0.018	175	26	PD53
D163-3200	1200-2200	4080	48	0.77	0.060	0.016	175	33	PD63
D173-5000	1200-2200	6410	65	0.77	0.040	0.010	175	45	PD73
D183-6300	1200-2200	7460	90	0.77	0.040	0.008	175	70	PD83
D193-8000	1200-2200	10220	98	0.85	0.029	0.0065	175	80	PD94
Up to 3400V									
D123-400	2400-3200	550	5.5	0.85	0.850	0.080	175	6	PD22
D223-400	2400-3200	530	5.5	0.85	0.850	0.085	175	6	PD23
D233-1000	2400-3400	1240	11	0.85	0.380	0.036	175	10	PD32
D433-1000	2400-3400	1240	11	0.85	0.380	0.036	175	10	PD33
D243-1250	2400-3200	1640	18.5	0.85	0.290	0.027	175	15	PD42
D153-2000	2400-3200	2830	33	0.85	0.130	0.018	175	26	PD53
D163-2500	2400-3200	3380	42	0.85	0.097	0.016	175	33	PD63
D173-4000	2400-3200	5290	53	0.85	0.065	0.010	175	45	PD73
D183-5000	2400-3200	5690	80	0.85	0.080	0.008	175	70	PD83
D193-6300	2400-3200	8500	90	0.85	0.037	0.0065	175	80	PD94
Up to 4400V									
D123-320	3400-4400	410	4.2	0.87	1.370	0.080	160	6	PD22
D223-320	3400-4400	390	4.2	0.87	1.370	0.085	160	6	PD23
D233-800	3400-4400	920	7.5	0.90	0.599	0.036	160	10	PD32
D433-800	3400-4400	920	7.5	0.90	0.599	0.036	160	10	PD33
D343-1000	3400-4400	1210	13.0	0.90	0.460	0.027	160	15	PD42
D153-1600	3400-4400	2100	27.0	0.90	0.206	0.018	160	26	PD53
D163-2000	3400-4400	2520	31	0.90	0.154	0.016	160	33	PD63
D173-3200	3400-4400	3940	43	0.90	0.103	0.010	160	45	PD73
D183-4000	3400-4200	4680	60	0.90	0.095	0.008	160	70	PD83
D193-5000	3400-4200	6330	67	0.85	0.040	0.0065	160	80	PD94
Up to 5200V									
D123-250	4400-5200	310	3.5	0.92	2.200	0.080	150	6	PD22
D223-250	4400-5200	300	3.5	0.92	2.200	0.085	150	6	PD23
D233-630	4400-5200	740	6.0	0.90	0.840	0.036	150	10	PD32
D433-630	4400-5200	740	6.0	0.90	0.840	0.036	150	10	PD33
D343-800	4400-5200	940	9.5	0.92	0.700	0.027	150	15	PD43
D153-1250	4400-5200	1650	25	0.92	0.310	0.018	150	26	PD53
D163-1600	4400-5200	1980	28	0.92	0.230	0.016	150	33	PD63
D173-2500	4400-5200	3060	37	0.95	0.155	0.010	150	45	PD73
D183-3200	4400-5000	4000	50	0.95	0.110	0.008	150	70	PD83
D193-4000	4400-5000	4950	58	0.94	0.088	0.0065	150	80	PD94

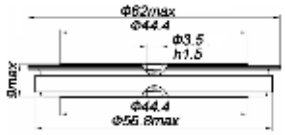
RECTIFIER DIODES (PRESS PACK)

Type	V_{RRM}	$I_{F(AV)}$ (T_C= 85 ºC)	I_{FSM} 10 ms	V_{TO}	r_T	$R_{th(j-c)}$	T_{VJM}	F	Case
	V	A	kA	V	mΩ	°C/W	°C	kN	
Up to 6500V									
D123-200	5200-6500	240	3.0	1.0	3.100	0.080	140	6	PD22
D223-200	5200-6500	230	3,0	1.0	3.100	0.085	140	6	PD23
D333-500	5200-6000	580	5.0	1.0	1.420	0.036	150	10	PD32
D433-500	5200-6000	580	5.0	1.0	1.420	0,036	150	10	PD33
D243-630	5200-6000	840	8.0	1.0	0.900	0.027	150	15	PD43
D153-1000	5200-6000	1470	20.0	1.0	0.400	0.018	150	26	PD53
D163-1250	5200-6500	1490	21	1.0	0.350	0.016	140	33	PD63
D173-2000	5200-6500	2530	29	1.0	0.250	0.010	150	45	PD73
D183-2500	5200-6500	3170	40	1.0	0.20	0.008	150	70	PD83
D193-3200	5200-6500	4180	45	1.0	0.135	0.0065	150	80	PD94
Up to 8000V									
D543-630	6500-8000	700	11.0	1.2	0.9	0.027	140	15	PD44
D453-1000	6500-8000	1080	22.0	1.2	0.6	0.018	140	26	PD54
D373-2000	6500-8000	2000	24.0	1.2	0.3	0.010	140	45	PD74
Up to 10000V									
D543-500	8000-10000	540	10.0	1.5	1.70	0.027	140	15	PD44
D453-800	8000-10000	800	19.0	1.5	1.2	0.018	140	26	PD54
D373-1250	8000-10000	1400	21.0	1.5	0.7	0.010	140	45	PD74

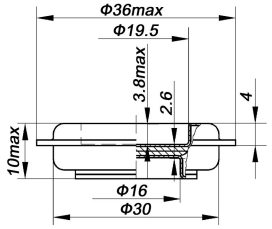


PD22, PD23, PD32, PD33, PD42, PD43, PD44,
PD53, PD54, PD63, PD73, PD74, PD83, PD94

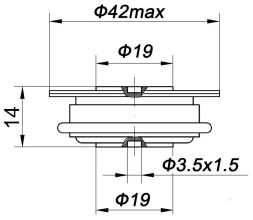
Case	a, mm	b, mm	c, mm
PD22	42	19	20
PD23	42	19	26
PD32	54	33	20
PD33	54	32	26
PD42	60	37	20
PD43	60	35	26
PD44	60	35	35
PD53	75	50	26
PD54	75	51	35
PD63	87	60	26
PD73	107	75	26
PD74	107	75	35
PD83	118	86	26
PD94	145	100	26



PD50 w= 150g



PD10 w= 34g



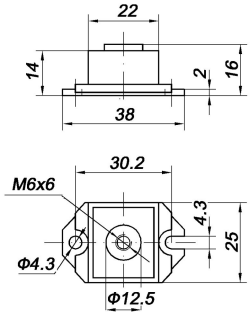
PD21 w= 70g

RECTIFIER DIODES IN COMPACT CASE

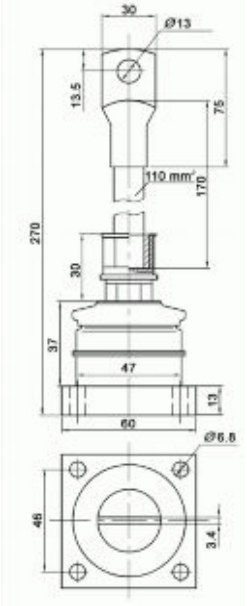
Features:
- Compact dimensions by high current values
- Plastic case with screw fastening to heatsink and busbar
- Low internal inductance

Applications: Compact high-powered rectifiers for different applications

Type	V_{RRM}	$I_{F(AM)}$ (T_C=90°C)	I_{FSM} 10ms T_{VJM}	V_{FM}/I_{FM}	V_{TO} T_{VJM}	r_T T_{VJM}	R_{thjc}	T
	V	A	A	V/A	V	mW	°C/W	° C
MPD-63	100-1600	63	1200	1.55/200	0.95	3.1	0.60	150
MPD-63X	100-1600	63	1200	1.55/200	0.95	3.1	0.60	150
MPD-80	100-1600	80	1400	1.60/250	0.95	2.5	0.50	150
MPD-80X	100-1600	80	1400	1.60/250	0.95	2.5	0.50	150
MPD-100	100-1600	100	1600	1.65/314	0.90	2.3	0.40	150
MPD-100X	100-1600	100	1600	1.65/314	0.90	2.3	0.40	150
MPD-160	100-1600	160	2200	1.70/500	0.90	1.6	0.24	150
MPD-160X	100-1600	160	2200	1.75/500	0.95	1.6	0.24	150



MPD1
w =35g



FLANGE DESIGN HIGH VOLTAGE RECTIFIER DIODE D185-500

Features:
- Flange design of case
- Hermetic metal-ceramic case
- Reverse voltage up 4000 V
- Available for parallel and serial connections

Applications:
Power converters for industry and transport

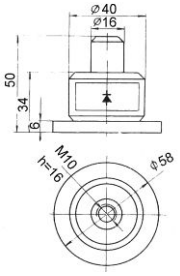
Type	V_{RRM}	$I_{F(AV)}$ (T_C=100ºC)	I_{FSM} 10ms	V_{FM}/I_{FM}	V_{TO}	r_T	$R_{th(j-c)}$	T_{VJM}	M_d	w	Case
	V	A	kA	V/A	V	mΩ	°C/W	°C	Nm	g	
D185-500	3200-4000	620	15	1.5/1570	0.8	0.43	0.061	160	5±1	620	FD3

ROTOR DIODES

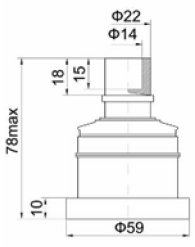
Features:
- Flange design. Terminals – round copper flange (base plate) and copper pipe
- Direct and reverse polarity
- Diodes can operate by long time axial centrifugal accelerations up to 4800 g (short time up to 6800 g) in base plate direction and by lateral accelerations up to 500 g

Applications:
- Brushless excitation systems of high power electrical machines

Type	V_{RRM}	$I_{F(AV)}$ (T_C,ºC)	I_{FSM} 10 ms	V_{FM}/I_{FM}	V_{TO}	r_T	$R_{th(j-c)}$	T_{VJM}	F	Case
	V	A	kA	V/A	V	mΩ	°C/W	°C	kN	
D105-630, D105-630X	2000-2800	630(100)	15	1.60/1978	1.00	0.400	0.06	175	16	FD2
B6-200, B6-200X	400-1600	200(100)	6	1.35/628	0.92	0.95	0.13	140	16	FD1



FD1
w = 290g



FD2
w = 580g

HIGH VOLTAGE RECTIFIER MODULE CD-2-50

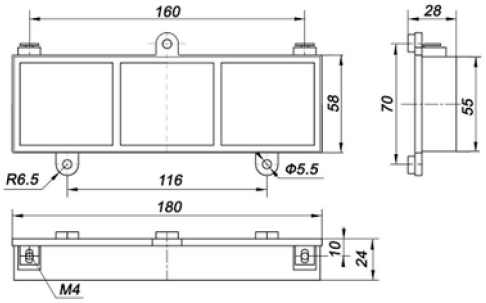
Features:

- Plastic case
- Heat transfer through ceramic isolation
- Screw montage
- Avalanche characteristics
- Double current by blowing of the case

Applications:

- High voltage power supplies
- Electrophysical and measuring equipments
- Lasers
- Roentgen equipments
- Protection of AC trolley line

Type	V_{RRM}	I_{RRM} T=150°C $V_R=V_{RRM}$	$I_{F(AV)}$ T_c=100°C	I_{FSM} T_c=150°C t_p = 10ms	I_R T_j=25°C $V_R=V_{RRM}$	V_{FM}/I_{FM} T_j=25°C	$R_{th(j-c)}$	T_j	w	Case
	V	mA	A	A	μA	V/A	°C/W	°C	kg	
CD2-50	50000	5	2	150	5	45/6.3	10	-45…+150	0.2	MVD1



MVD1

HIGH VOLTAGE DIODE STACKS CD-3-125

Features:

- Single diodes with narrow parameter dispersion are connected in series without additional equalizing elements and mounted on glass-fiber plastic plate
- Parameters are optimum for low frequency and pulse applications
- Maximal possible current can be increased 2-3 times by forced air cooling
- Supplying for high frequency applications are possible

Applications:

- Electrophysical and measuring equipments
- Lasers
- High power industry electronics
- Roentgen and medical equipments

Outlines 450X90X40 (mm)

Type	V_{RRM}	I_{RRM} $V_R=V_{RRM}$		$I_{F(AV)}$ T_c=100°C	I_{FSM} T_c=150°C t_p = 10ms	V_{FM}/I_{FM} T_j=25°C	$R_{th(j-c)}$	T_j	w
		T=150°C	T_j=25°C						
	V	mA	μA	A	A	V/A	°C/W	°C	kg
CD3-125	125000	3	20	3	250	66/9.5	15	-45…+150	1.5

AVALANCHE DIODES

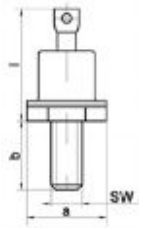
Features:

- Hermetic metal-glass and metal-ceramic cases of presspack and stud design
- Guaranteed maximal power dissipation in avalanche breakdown mode
- Operation voltage up to 6000V

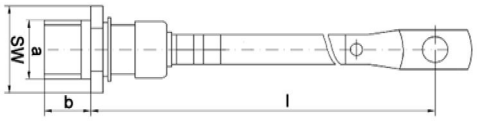
Applications:

- Uncontrollable and half-controlled rectifier bridges
- High power drives for industry and transport
- Power supplies for traction

Type	V_{RRM}	$I_{F(AV)}$ (T_C,°C)	I_{FSM} 10 ms	V_{TO}	r_T	P_{RSM} 100µs	$R_{th(j-c)}$	T_{VJM}	M_d/ F	Case
	V	A	kA	V	mΩ	kW	°C/W	°C	Nm/ kN	
Up to 1800V										
DA212-10, DA212-10X	400-1600	10(120)	0.25	1.03	16.20	2.5	2.700	160	0.9-1.1	SD1
DA212-16, DA212-16X	400-1600	16(120)	0.27	0.93	9.15	2.5	1.900			
DA212-25, DA212-25X	400-1600	25(120)	0.34	0.83	7.35	2.5	1.250			
DA222-32, DA222-32	400-1600	32(120)	0.46	0.91	5.83	3.0	0.900	160	1.4-1.8	SD2
DA222-40, DA222-40X	400-1600	40(120)	0.55	0.82	4.38	3.0	0.800			
DA232-50, DA232-50X	400-1600	50(120)	1.2	0.97	2.86	5.0	0.600	160	5.0-6.2	SD3
DA232-63, DA232-63X	400-1600	63(120)	1.3	0.87	2.51	5.0	0.500			
DA232-80, DA232-80X	400-1600	80(120)	1.3	0.78	2.12	5.0	0.400			
DA161-200	400-1800	200(115)	7.5	0.92	0.680	16	0.130	150	20-30	SD6
DA171-320	400-1800	320(115)	10	1.00	0.500	16	0.085	150	25-35	SD7
DA123-320	400-1600	320(113)	5.5	0.90	0.830	16	0.075	150	6	PD21
DA133-500	400-1600	500(123)	12	0.85	0.410	16	0.040	150	10	PD32
Up to 2800V										
DA253-2500	1600-2800	2500(100)	36	0.86	0.130	20	0.018	175	22	PD53
DA173-4000	1600-2400	3860(100)	50	1.00	0.08	16	0.011	175	45	PD73
Up to 3600V										
DA253-1600	2200-3600	1600(121)	32	0.90	0.189	20	0.020	175	22	PD53
DA173-3200	2400-3200	3250(100)	45	1.10	0.124	16	0.011	175	45	PD73
Up to 4500V										
DA253-1250	3200-4500	1250(100)	28	1.32	0.440	20	0.020	175	22	PD53
Up to 5200V										
DA153-1000	3800-5000	1250(100)	18	1.30	0.54	16	0.020	175	22	PD53
Up to 6000V										
DA153-800	4400-6000	800(90)	12	1.31	0.74	16	0.020	140	22	PD53

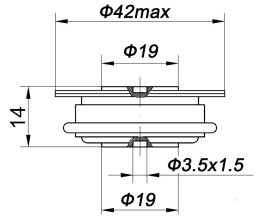


SD1...SD3

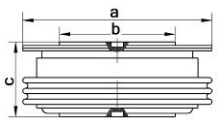


SD6, SD7

Case	a, mm	b, mm	l, mm	SW
SD1	M5	11	18	11
SD2	M6	12	26	14
SD3	M8	14	35	17
SD6	M20x1.5	16	200	35,5
SD7	M24x1.5	19	250	45,5



PD21 w= 70g



PD32, PD53, PD73

Case	a, mm	b, mm	c, mm
PD32	54	33	20
PD53	75	50	26
PD73	107	75	26

FAST RECOVERY DIODES

Features:

- Hermetic metal-glass and metal-ceramic cases of presspack and stud design
- Short reverse recovery times, low reverse recovery charges

Applications:

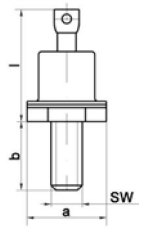
- Invertors, choppers
- DC drives
- Uninterruptible supplies

Type	V_{RRM}	$I_{F(AV)}$ (T_C,ºC)	I_{FSM} 10 ms	V_{TO}	r_T	t_{rr}	$R_{th(j-c)}$	T_{VJM}	M_d	Case
	V	A	kA	V	mΩ	µs	°C/W	°C	Nm	
Up to 1600V										
DF212-10, DF212-10X	400-1400	10(100)	0.18	1.20	32	0.50 – 1.00	2.50	150	0.9-1.1	SD1
DF212-16. DF212-16X	400-1400	16(100)	0.25	1.20	20	0.50 – 1.00	1.60			
DF212-20, DF212-20X	400-1400	20(100)	0.31	1.20	16	0.63 – 1.00	1.20			
DF222-25, DF222-25X	400-1400	25(100)	0.40	1.20	13	0.50 – 1.00	1.00	150	1.4-1.8	SD2
DF222-32, DF222-32X	400-1400	32(100)	0.50	1.20	10	0.63 – 1.00	0.80			
DF232-40, DF232-40X	400-1400	40(100)	0.60	1.20	8	0.50 – 1.00	0.60	150	5-6.2	SD3
DF232-50, DF232-50X	400-1400	50(100)	0.75	1.20	6	0.63 – 1.00	0,50			
DF232-63, DF232-63X	400-1400	63(100)	0.95	1.20	5	0.63 – 1.00	0.40			
DF141-80	400-1600	80(100)	2.5	1.10	4.4	1.6	0.45	150	6-10	SD4
DF141-80X	400-1600	80(95)	2.2	1.10	4.4	50[1]; 65[2]	0.45			
DF151-125	400-1600	125(100)	4.0	1.15	2.2	2.0	0.25	150	10-20	SD5
DF151-125X	400-1600	125(95)	3.5	1.15	2.2	80[1]; 80[2]	0.25	150		
DF351-160, DF351-160X	600-1400	160(103)	3.5	1.40	1.56	3.2;4.0	0.25	170		
DF351-200, DF351-200X	600-1400	200(103)	4.3	1.05	1.1	3.2;4.0	0.25	170		
DF361-250, DF361-250X	600-1400	250(103)	4.5	1.20	1.6	3.2;4.0;5.0	0.15	170	20-30	SD6
DF361-320, DF361-320X	600-1400	320(103)	5.3	0.80	1.20	3.2,4.0,5.0	0.15			
Up to 2600V										
DF141-63	1600-2600	63(100)	2.0	1.20	5	1.0; 2.0	0.45	150	6-10	SD4
DF141-63X	1600-2500	56(100)	2.2	1.20	5.0	80[1]; 80[2]	0.45			

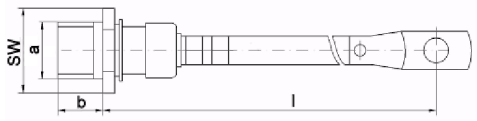
Type	V_{RRM}	$I_{F(AV)}$ (T_C,ºC)	I_{FSM} 10 ms	V_{TO}	r_T	t_{rr}	$R_{th(j-c)}$	T_{VJM}	F	Case
	V	A	kA	V	mΩ	µs	°C/W	°C	kN	
Up to 1800V										
DF343-800	600-1800	800(100)	12.5	1.30	0.60	4.0;5.0;6.3;8.0	0.035	175	16	PD42
DF343-1000	600-1800	1000(100)	14.5	1.20	0.35	5.0;6.3;8.0	0.035	175	16	PD42
Up to 2600V										
DF323-250	1600-2400	250(100)	4.5	1.10	0.96	4.0	0.08	150	4.5	PD21
DF423-250	1600-2600	250(95)	4.0	1.10	0.96	300[1]; 250[2]	0.08	150	4.5	PD21
DF333-400	1600-2400	400(100)	6.5	1.20	0.88	4.0	0.04	150	4.5	PD32
DF433-400	1600-2600	400(95)	6.5	1.20	0.88	350[1]; 160[2]	0.04	150	4.5	PD32
DF443-500	1600-2500	500(120)	12.0	0.95	0.50	550[1]; 160[2]	0.035	150	16	PD42
DF453-1000	1600-2500	1000(100)	25.0	1.10	0.50	650[1]; 600[2]	0.020	150	24	PD53
DF273-2000	1000-2400	2000(113)	48.0	1.05	0.127	3.2;4.0;5.0;6.3; 1000[1]	0.011	150	45	PD73
Up to 3400V										
DF343-500	3000-3600	500(100)	10.5	1.55	0.90	5.0	0.035	150	16	PD42
Up to 4600V										
DF323-200	3000-4600	200(93)	3.0	1.40	2.70	5.0	0.08	140	4.5	PD22
DF423-200	3000-4600	200(85)	2.7	1.40	2.70	450[1]; 160[2]	0.08	140	4.5	PD22
DF443-320	3000-4500	320(119)	5.0	1.35	0.60	1000[1]; 250[2]	0.035	140	16	PD42
DF353-800	3000-4600	800(93)	9.5	1.40	0.84	6.3	0.020	140	24	PD53
DF453-800	3000-4600	800(90)	16.0	1.40	0.84	1000[1]; 700[2]	0.020	140	24	PD53
DF173-1600	3000-4500	1700(85)	32.0	1.4	0.305	2340[1], 430[2]	0.012	140	45	PD73-1
Up to 6000V										
DF443-250	4000-6000	250(120)	4.0	1.60	0.60	1500[1]; 280[2]	0.035	140	16	PD42

[1] Q_{rr}, µC [2] I_{RM},A

FAST RECOVERY DIODES

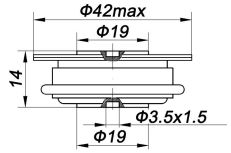


SD1...SD3

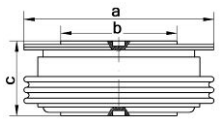


SD4...SD7

Case	a, mm	b, mm	l, mm	SW
SD1	M5	11	18	11
SD2	M6	12	26	14
SD3	M8	14	35	17
SD4	M10	13	150	25
SD5	M12	18	150	30,5
SD6	M20x1.5	16	200	35,5



PD21 w= 70g



PD32, PD42, PD53, PD73

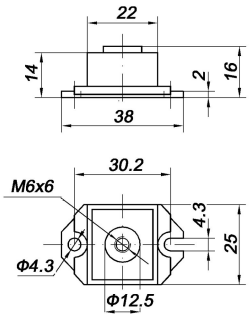
Case	a, mm	b, mm	c, mm
PD32	54	33	20
PD42	60	37	20
PD53	75	50	26
PD73	107	75	26

FAST DIODES IN COMPACT CASE

Features:
- Very low dimensions and weight by high loading current values
- Solid plastic case with screw fastening to heat sink and bus-bar
- Very low internal inductivity

Applications:
- Compact high power rectifiers for various applications

Type	V_{RRM}	$I_{F(AV)}$ (T_C=90°C)	I_{FSM} 10 ms T_{VJM}	V_{FM}/I_{FM}	V_{TO} T_{VJM}	r_T T_{VJM}	R_{thjc}	t_{rr}	T_{VJM}
	V	A	A	V/A	V	mW	°C/W	µs	° C
MPDF-50	100-1400	50	1500	2.1/150	1.2	6.0	0.60	0.5-1.0	150
MPDF-50X	100-1400	50	1500	2.1/150	1.2	6.0	0.60	0.5-1.0	150
MPDF-63	100-1400	63	1700	2.1/200	1.1	5.0	0.45	0.5-1.0	150
MPDF-63X	100-1400	63	1700	2.1/200	1.1	5.0	0.45	0.5-1.0	150
MPDF-80	100-1400	80	1800	2.1/250	1.1	4.0	0.37	0.63-1	150
MPDF-80X	100-1400	80	1800	2.1/250	1.1	4.0	0.37	0.63-1	150
MPDF-100	100-1400	100	2000	2.1/314	1.1	3.5	0.24	0.63-1	150
MPDF-100X	100-1400	100	2000	2.1/314	1.1	3.5	0.24	0.63-1	150



MPD1 w =35g

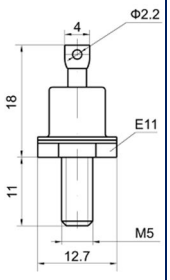
SILICON SURGE VOLTAGE SUPPRESSORS

Features:
- Diffused p-n-p structure
- Symmetric avalanche blocking characteristics

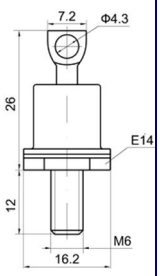
Applications:
- Effective protection against repetitive and non-repetitive overvoltages
- Suitable for thyristor protection

Type	V_H	I_{DRM}/I_{RRM}	V_{BR}	A_H	β	$R_{th(j-c)}$	T_{VJM}	M_d	F	Case
	V	mA	V	J	%/°C	°C/W	°C	Nm	kN	
OHC261-10	600-1800	5	V_H+100	10.0	0.15	0.120	125	20-30	-	SD6
OHC223-15	1800-3400	10	V_H+200	15.0	0.15	0.080	125	-	5	PD22
OHC333-15	400-2800	10	V_H+200	15.0	0.15	0.036	125	-	10	PD32
OHC343-15	800-3200	20	V_H+200	15.0	0.15	0.027	125	-	15	PD42
OHC353-15	1600-4400	20	V_H+200	15.0	0.15	0.018	125	-	26	PD53

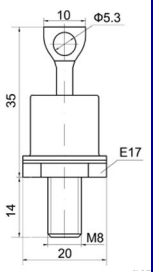
OUTLINES



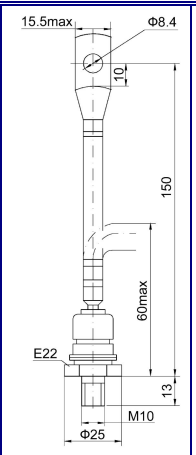
SD1 w=6g



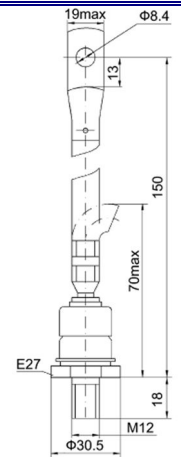
SD2 w=12g



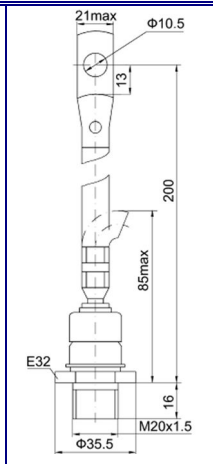
SD3 w=27g



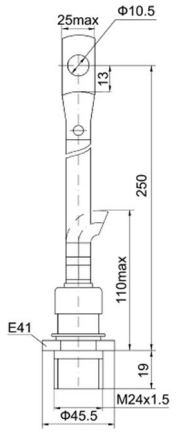
SD4 w=90g



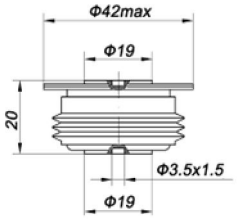
SD5 w=165g



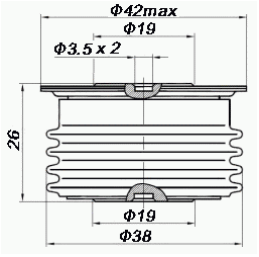
SD6 w=265g



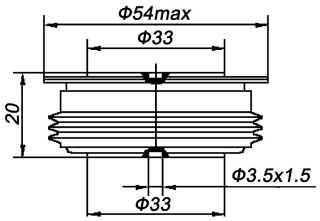
SD7 w=465g



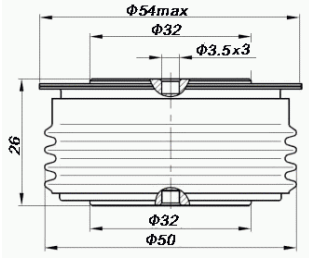
PD22 w=91g



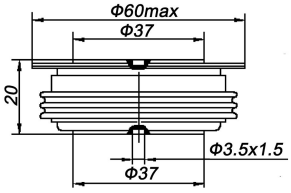
PD23 w=100g



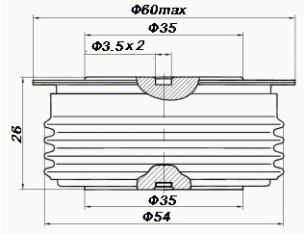
PD32 w=180g



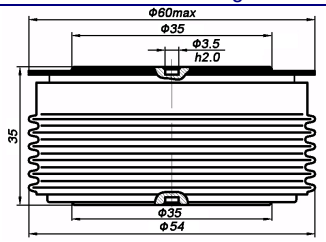
PD33 w=200g



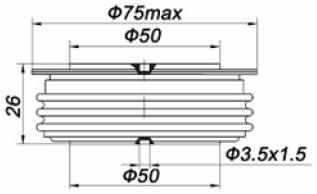
PD42 w=240g



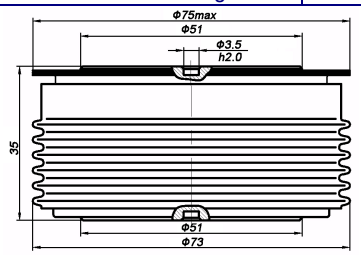
PD43 w=300g



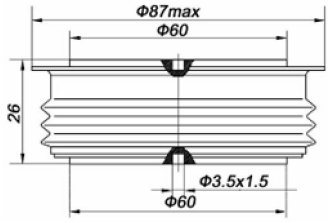
PD44 w=320g



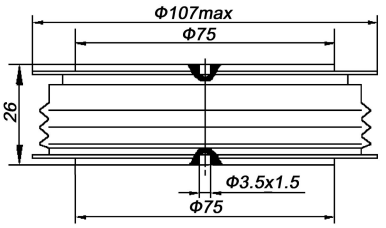
PD53 w=550g



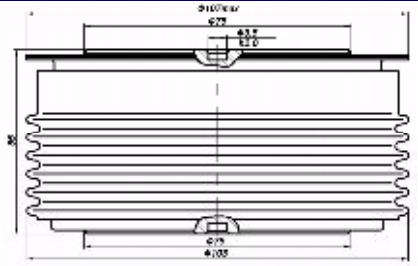
PD54 w=580g



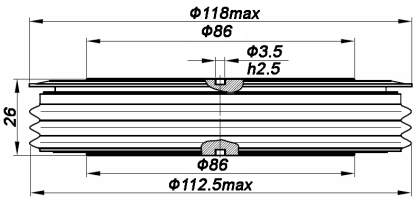
PD63 w=710g



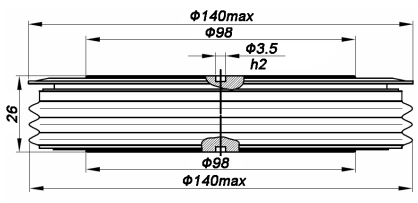
PD73 w=1200g



PD74 w=1300g



PD83 w=1500g



PD93 w=3000g