

PHASE CONTROL THYRISTOR CHIPS

English Device Code	Russian Equivalent
T	T

Type	V _{DRM}	I _{DRM}	I _{T(AV)} , (T _C , °C)	I _{TSM} 10ms	V _{TM} /I _{TM}	V _{T(TO)}	r _T	(di/dt) _{crit}	(du/dt) _{crit}	V _{GT}	I _{GT}	t _q (typ)	R _{th(j-c)}	T _{jmax}	F _m	Fig	a	b	c	d	w
	V _{RRM}	I _{RRM}	(T _C , °C)	10ms	V/A	V	mΩ	A/mks	V/mks	V	mA	mks	°C/W	°C	kN		mm	mm	mm	mm	g
Ø 16mm																					
T242-40	400-1600	15	40(85)	0.8	1.5/125	1.00	3.80	200	50-1000	3.5	150	100	0.680	125	1.6	2	16	11.4	1.69	4.0	2.9
T242-63	400-1600	15	63(85)	1.2	1.5/200	0.95	3.00	200	50-1000	3.5	150	100	0.460	125	1.6	2	16	11.4	1.69	4.0	2.9
T242-80	400-1400	15	80(85)	1.6	1.5/250	0.90	2.00	200	50-1000	3.5	150	63	0.390	125	1.6	2	16	11.4	1.64	4.0	2.9
Ø 20mm																					
T151-100	300-1800	15	100(90)	2.0	1.75/314	1.15	2.40	160	200-1000	3.5	200	160	0.300	140	3	2	20	15.3	1.95	5.4	4.6
Ø 24mm																					
T161-125	300-1800	15	125(90)	2.5	1.66/392	1.15	1.80	125	200-1000	3.5	200	160	0.150	125	4.5	2	24	18.5	2.90	5.4	7.6
T161-160	300-1800	15	160(87)	4.0	1.65/502	1.05	1.36	125	200-1000	3.5	200	160	0.150	125	4.5	2	24	18.5	2.90	5.4	7.6
T161-200	300-1600	15	200(87)	5.0	1.55/628	1.00	1.05	160	200-1000	3.5	200	250	0.130	125	4.5	2	24	18.5	2.90	5.4	7.6
T261-160	300-1600	20	160(85)	3.0	1.95/502	1.00	2.20	125	200-1000	3.5	200	100	0.130	125	4.5	2	24	18.5	2.90	5.4	7.6
T123-160*	3400-4200	40	200(70)	2.8	2.70/502	1.20	4.50	200	500-1600	2.5	250	400	0.080	125	6.0	2	24	16.4	2.46	5.4	7.6
T223-200*	2600-3200	30	240(70)	3.5	2.40/628	1.15	2.60	200	500-1600	2.5	250	320	0.080	125	6.0	2	24	18.5	2.28	5.4	7.6
T223-250	1800-2400	20	210(70)	4.0	2.10/785	1.05	1.50	200	500-1600	2.5	250	200	0.080	125	6.0	2	24	18.5	2.10	5.4	7.6
T123-320	400-1600	20	410(70)	5.0	1.65/1005	0.90	0.75	200	500-1600	2.5	250	160	0.080	125	6.0	2	24	18.5	2.00	5.4	7.6
T123-400	900-1200	25	480(70)	5.5	1.65/1256	0.83	0.58	200	500-1600	2.5	250	100	0.080	130	6.0	2	24	18.5	1.70	5.4	7.6
T123-500	400-800	30	690(70)	6.0	1.50/1570	0.80	0.49	200	500-1600	2.5	250	100	0.070	150	6.0	2	24	18.5	1.84	5.4	7.6
T123-200	400-1600	15	300(70)	4.0	1.90/628	1.10	1.50	200	200-1600	3.5	200	250	0.080	125	6.0	2	24	18.5	2.03	5.4	7.6
T123-250	400-1600	15	350(70)	4.5	1.75/785	1.00	1.08	200	200-1600	3.5	200	250	0.080	125	6.0	2	24	18.5	2.03	5.4	7.6

* - new type (preliminary data)

PHASE CONTROL THYRISTOR CHIPS

Type	V_{DRM} V_{RRM}	I_{DRM} I_{RRM}	$I_{T(AV)}$, ($T_C, ^\circ C$)	I_{TSM} 10ms	V_{TM}/I_{TM}	$V_{T(TO)}$	r_T	$(di/dt)_{crit}$	$(du/dt)_{crit}$	V_{GT}	I_{GT}	t_q (typ)	$R_{th(j-c)}$	T_{jmax}	F_m	Fig	a	b	c	d	w
	V	mA	A	kA	V/A	V	m Ω	A/mks	V/mks	V	mA	mks	$^\circ C/W$	$^\circ C$	kN		mm	mm	mm	mm	g
Ø 32mm																					
T171-200	300-1800	30	200(90)	5.0	1.69/628	1.00	1.12	125	200-1000	3.5	200	160	0.100	125	6.5	2	32	25.8	3.00	5.4	12.5
T171-250	300-1800	30	250(85)	6.0	1.69/785	1.00	0.95	125	200-1000	3.5	200	160	0.100	125	6.5	2	32	25.8	3.00	5.4	12.5
T171-320	300-1800	30	320(87)	8.5	1.52/1005	1.05	0.53	320	200-1000	3.5	200	160	0.085	125	6.5	2	32	25.8	3.00	5.4	12.5
T271-250	100-800	50	250(115)	10.0	1.43/785	0.95	0.76	320	200-1000	3.5	150	250	0.090	150	6.0	2	32	25.8	3.00	5.4	12.5
T271-320	100-800	50	320(117)	11.5	1.17/1005	0.80	0.45	320	200-1000	3.5	150	160	0.090	150	6.0	2	32	25.8	3.00	5.4	12.5
T133-250*	3400-4200	50	370(70)	4.0	2.70/785	1.20	2.70	200	500-1600	2.5	250	400	0.040	125	10	2	32	24.9	2.30	5.4	14.3
T233-320*	2600-3200	40	470(70)	5.0	2.40/1005	1.15	1.50	200	500-1600	2.5	250	320	0.040	125	10	2	32	26.5	2.10	5.4	13.9
T233-400	2000-2400	30	590(70)	7.0	2.00/1254	1.05	0.85	200	500-1600	2.5	250	200	0.040	125	10	2	32	26.5	2.00	5.4	13.8
T233-500	400-1800	30	730(70)	9.0	1.8/1570	0.95	0.50	200	500-1600	2.5	250	160	0.040	125	10	2	32	25.8	2.03	5.4	14
T133-630	100-1200	40	910(70)	12.0	1.65/1978	0.85	0.35	200	500-1600	2.5	250	100	0.040	130	10	2	32	26.5	1.89	5.4	13
T133-800	100-800	50	1320(70)	12.0	1.60/2512	0.80	0.28	200	500-1600	2.5	250	100	0.035	150	10	2	32	26.5	1.84	5.4	13
T133-320	900-2400	30	520(70)	7.0	2.00/1005	1.20	1.10	200	200-1600	3.5	300	250	0.040	125	10	2	32	25.8	2.21	5.4	14
T133-400	400-1600	30	590(70)	8.0	1.75/1256	1.05	0.68	200	200-1600	3.5	200	160	0.045	125	10	2	32	25.8	2.03	5.4	14
T133-500	100-800	50	1090(70)	10.0	1.50/1570	0.95	0.42	320	500-1600	3.5	150	160	0.035	150	10	2	32	26.5	1.84	5.4	13
Ø 40mm																					
T243-400	3400-4200	70	547(70)	6.0	2.30/1256	1.20	1.300	200	500-1600	2.5	250	400	0.034	125	15	2	40	31.5	2.30	9.0	21.5
T243-500	1800-3200	50	708(70)	10.0	2.00/1570	1.00	0.735	200	500-1600	2.5	250	320	0.034	125	15	2	40	33.6	2.28	9.0	22.0
T243-630	2000-2400	40	790(70)	9.0	1.95/1978	1.05	0.500	200	500-1600	2.5	250	240	0.034	125	15	2	40	34.0	2.00	9.0	22.2
T143-800	900-1800	40	1000(70)	14.0	1.68/2512	0.95	0.300	200	500-1600	2.5	250	160	0.032	125	15	2	40	33.6	2.03	9.0	20.0
T143-1000	100-1200	50	1180(70)	19.0	1.60/3140	0.85	0.250	200	500-1600	2.5	250	100	0.032	130	15	2	40	34.5	1.89	9.0	20.0
T143-1250	100-800	70	1740(70)	21.0	1.50/3925	0.80	0.170	200	500-1600	2.5	250	100	0.030	150	15	2	40	34.5	1.84	9.0	20.0
Ø 50mm																					
T153-630	2000-2600	50	1110(70)	15.0	1.80/1978	1.05	0.370	200	500-1600	2.5	250	250	0.024	125	24	2	50	43.6	3.13	13.0	47.0
T153-800	1000-2000	50	1280(70)	20.0	1.55/2512	0.95	0.260	200	500-1600	2.5	250	200	0.024	125	24	2	50	43.6	2.93	13.0	46.0



* - new type (preliminary data)

PHASE CONTROL THYRISTOR CHIPS

Type	V _{DRM} V _{R_{RRM}}	I _{DRM} I _{R_{RRM}}	I _{T(AV)} , (T _C , °C)	I _{TSM} 10ms	V _{TM} /I _{TM}	V _{T(TO)}	r _T	(di/dt) _{crit}	(du/dt) _{crit}	V _{GT}	I _{GT}	t _q (typ)	R _{th(j-c)}	T _{jmax}	F _m	Fig	a	b	c	d	w
	V	mA	A	kA	V/A	V	mΩ	A/mks	V/mks	V	mA	mks	°C/W	°C	kN		mm	mm	mm	mm	g
Ø 56mm																					
T253-500*	5000-6000	100	860(70)	10.0	2.40/1570	1.25	0.900	200	500-1600	2.5	250	500	0.020	125	24	2	56	47.6	3.65	13.0	68.0
T353-630*	3600-4200	70	990(70)	15.0	2.30/1978	1.20	0.630	200	500-1600	2.5	250	400	0.020	125	24	2	56	49.6	3.36	13.0	63.0
T753-800*	3600-4000	70	1000(70)	15.0	2.25/2512	1.18	0.620	200	500-1600	2.5	250	400	0.020	125	24	2	56	49.6	3.36	13.0	63.0
T353-800	2400-3400	70	1130(70)	17.0	2.00/2512	1.10	0.470	200	500-2500	2.5	250	320	0.020	125	24	2	56	47.6	3.18	13.0	65.0
T353-1000	2000-3200	70	1240(70)	19.0	2.00/3140	1.05	0.380	200	500-1600	2.5	250	320	0.020	125	24	2	56	49.6	3.12	13.0	61.6
T253-1000	1000-2400	70	1350(70)	22.0	1.75/3140	1.02	0.300	200	500-1600	2.5	250	250	0.020	125	24	2	56	49.6	3.07	13.0	61.6
T253-1250	400-1800	50	1580(70)	28.0	1.60/3925	0.95	0.200	200	500-1600	2.5	250	160	0.020	125	24	2	56	49.6	2.86	13.0	61.4
T153-1600	400-1200	100	1910(70)	30.0	1.50/5024	0.90	0.140	200	500-1600	2.5	250	100	0.020	130	24	2	56	50.0	2.79	13.0	63.0
T153-2000	400-800	100	2830(70)	36.0	1.45/6280	0.80	0.110	200	500-1600	2.5	250	100	0.018	150	24	2	56	50.0	2.75	13.0	63.0
T253-800	2000-2400	70	1130(70)	17.0	2.10/2500	1.20	0.440	200	200-1600	3.5	300	250	0.020	125	26	2	56	49.6	3.13	13.0	61.6
T453-1000	1000-1800	70	1500(70)	24.0	1.80/3140	1.10	0.250	200	200-1600	3.5	300	160	0.018	125	26	2	56	49.6	2.93	13.0	66.0
Ø 63mm																					
T163-800*	5200-6000	120	1060(70)	12.0	2.40/2512	1.20	0.700	200	500-1600	2.5	250	500	0.017	125	33	5	63	54.0	3.80	9.3	76.0
T263-800*	4400-5000	120	1120(70)	15.0	2.20/2512	1.20	0.600	200	500-1600	2.5	250	400	0.017	125	33	5	63	54.0	3.50	9.3	74.4
T163-1000*	3400-4200	100	1250(70)	18.0	2.20/3140	1.20	0.500	200	500-1600	2.5	250	400	0.017	125	33	5	63	54.0	3.30	9.3	73.9
T263-1000*	2800-3200	100	1420(70)	20.0	2.10/3140	1.15	0.360	200	500-1600	2.5	250	320	0.016	125	33	5	63	56.0	3.15	9.3	72.7
T163-1250*	2000-2600	100	1610(70)	25.0	2.00/3925	1.05	0.270	200	500-1600	2.5	250	250	0.016	125	33	5	63	56.0	3.10	9.3	72.0
T163-1600*	1400-1800	100	2020(70)	35.0	1.65/5024	0.95	0.150	200	500-1600	2.5	250	160	0.016	125	33	5	63	56.0	3.00	9.3	70.3
T163-2000*	400-1200	100	2510(70)	40.0	1.45/6280	0.85	0.103	200	500-1600	2.5	250	100	0.016	130	33	5	63	59.0	2.80	9.3	69.5
T163-2500*	200-800	120	3190(70)	50.0	1.35/7850	0.82	0.070	200	500-1600	2.5	250	100	0.016	140	33	5	63	59.0	2.70	9.3	69.0

* - new type (preliminary data)

PHASE CONTROL THYRISTOR CHIPS

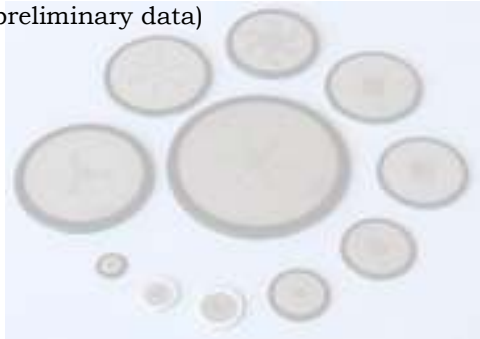
Type	V _{DRM}	I _{DRM}	I _{T(AV)} , (T _C , °C)	I _{TSM} 10ms	V _{TM} /I _{TM}	V _{T(TO)}	r _T	(di/dt) _{crit}	(du/dt) _{crit}	V _{GT}	I _{GT}	t _q (typ)	R _{th(j-c)}	T _{jmax}	F _m	Fig	a	b	c	d	w
	V _{RRM}	I _{RRM}	(T _C , °C)	kA	V/A	V	mΩ	A/mks	V/mks	V	mA	mks	°C/W	°C	kN		mm	mm	mm	mm	g
Ø 76mm																					
T173-1000*	5000-6000	200	1560(70)	24.0	2.30/3140	1.20	0.450	200	500-1600	2.5	250	500	0.012	125	45	3	76	67.6	3.65	9.7	128
T273-1250	2800-4400	200	1840(70)	32.0	2.10/3925	1.20	0.330	200	500-1600	2.5	250	400	0.011	125	45	3	76	65.6	3.36	9.7	123
T173-1600	2400-3400	180	2100(70)	34.0	2.10/ 5024	1.08	0.250	200	500-1600	2.5	250	320	0.011	125	45	3	76	65.6	3.18	9.7	123
T273-2000	1800-2600	180	2600(70)	42.0	1.75/6280	0.95	0.150	200	500-1600	2.5	250	200	0.011	125	45	3	76	66.2	3.13	9.7	118
T173-2000	1600-2000	180	2770(70)	49.0	1.65/6280	0.95	0.125	200	500-1600	2.5	250	160	0.011	125	45	3	76	65.6	2.93	9.7	115
T173-2500	1000-1600	180	3220(70)	52.0	1.70/7850	0.95	0.095	200	500-1600	2.5	250	160	0.010	125	45	3	76	68.5	2.90	9.7	115
T173-3200	200-1200	200	4110(70)	60.0	1.50/10050	0.83	0.062	200	500-1600	2.5	250	100	0.010	130	45	3	76	68.5	2.79	9.7	123
T173-4000	200-1000	200	4770(70)	62.0	1.50/12560	0.84	0.053	200	500-1600	2.5	250	100	0.010	140	45	3	76	68.5	2.78	9.7	123
T173-5000	200-800	200	5590(70)	66.0	1.50/15700	0.85	0.042	200	500-1600	2.5	250	100	0.010	150	45	3	76	68.5	2.78	9.7	123
Ø 90mm																					
T183-1600*	5400-6000	250	2100(70)	33.0	2.70/6280	1.20	0.330	200	500-1600	2.5	250	500	0.009	125	70	12	90	80	4.70	10.47	245
T283-2000*	4400-5200	250	2520(70)	40.0	2.40/7850	1.07	0.240	200	500-1600	2.5	250	450	0.0085	125	70	12	90	80	4.60	10.47	240
T183-2000*	3600-4200	250	3020(70)	50.0	2.00/7850	1.00	0.170	200	500-1600	2.5	250	400	0.008	125	70	12	90	80	4.40	10.47	235
T283-2500*	3000-3400	250	3380(70)	55.0	1.95/10050	0.95	0.130	200	500-1600	2.5	250	320	0.008	125	70	12	90	80	4.25	10.47	230
T183-2500*	1800-2800	250	3760(70)	60.0	1.75/10050	0.90	0.100	200	500-1600	2.5	250	250	0.008	125	70	12	90	80	4.20	10.47	225
T183-3200*	800-1600	250	4500(70)	70.0	1.60/12560	0.86	0.060	200	500-1600	2.5	250	160	0.008	125	70	12	90	80	3.97	10.47	220

* - new type (preliminary data)



Type	V _{DRM}	I _{DRM}	I _{T(AV)} , (T _C , °C)	I _{TSM} 10ms	V _{TM} /I _{TM}	V _{T(TO)}	r _T	(di/dt) _{crit}	(du/dt) _{crit}	V _{GT}	I _{GT}	t _q (typ)	R _{th(j-c)}	T _{jmax}	F _m	Fig	a	b	c	d	w
	V _{R_{RRM}}	I _{R_{RRM}}	A	kA	V/A	V	mΩ	A/mks	V/mks	V	mA	mks	°C/W	°C	kN		mm	mm	mm	mm	g
Ø 101mm																					
T193-2000*	5400-6000	300	2810(70)	54.0	2.40/6280	1.20	0.260	200	500-1600	2.5	250	500	0.0065	125	80	5	101	91.0	4.50	9.7	272
T193-2500	4400-5200		3260(70)	60.0	2.30/7850	1.07	0.190	200	500-1600	2.5	250	400	0.0065	125	80	5	101	91.0	4.30	9.7	269
T193-2500	3600-4200	300	3810(70)	68.0	1.80/7850	1.00	0.130	200	500-1600	2.5	250	400	0.0065	125	80	5	101	91.0	4.20	9.7	265
T293-3200	2800-3400		4240(70)	75.0	1.75/10048	0.95	0.100	200	500-1600	2.5	250	320	0.0065	125	80	5	101	91.0	4.00	9.7	263
T193-3200	1800-2400	300	4860(70)	85.0	1.45/10050	0.90	0.070	200	500-1600	2.5	250	250	0.0065	125	80	5	101	91.0	3.98	9.7	261
T193-4000*	800-1600	300	5560(70)	90.0	1.45/12560	0.86	0.048	200	500-1600	2.5	250	160	0.0065	125	80	5	101	91.0	3.70	9.7	254

* - new type (preliminary data)



REVERSE SWITCHING DYNISTOR CHIPS*

English Device Code	Russian Equivalent
RSD	РВДА

Type	V _{DRM}	I _{DRM}	I _{T(AV)} T _C =85°C	I _{TM} Sinusoidal form of impulse			t _q	(di _T /dt) _{crit}	(du _D /dt) _{crit}	T _{jmax}	R _{th(j-c)}	F _m	Fig	a	b	c	w
				single impulse/ t _F =400µs	f=1kHz	f=25kHz											
				kA	A	A											
V	mA	A	kA	A	A	µs	kA/µs	V/µs	°C	°C/W	kN	g	mm	mm	mm	g	
Ø 24mm																	
RSD123-160	1200	20	160	-	-	200	12	30	500-3000	125	0.075	5.5	1	24	18.5	1.87	7.4
RSD123-200	3000	15	200	18	-	-	250	30	500-3000	125	0.075	5.5	1	24	18.5	1.87	7.4
RSD123-250	2000	15	250	22	-	-	250	30	500-3000	125	0.075	5.5	1	24	18.5	1.87	7.4
RSD223-250	2000	15	250	-	440	-	160	30	500-3000	125	0.075	5.5	1	24	18.5	1.87	7.4
Ø 40mm																	
RSD143-630	3000	50	630	55	-	-	250	30	500-3000	125	0.027	15	1	40	34.8	1.87	21.1
RSD243-630	1200	60	630	-	-	500	12	30	500-3000	125	0.027	15	1	40	34.8	1.87	21.1
RSD143-800	2000	50	800	100	-	-	250	30	500-3000	125	0.027	15	1	40	34.8	1.87	21.1
RSD243-800	2000	50	800	-	1200	-	160	30	500-3000	125	0.027	15	1	40	34.8	1.87	21.1
Ø 56mm																	
RSD153-800	3000	70	800	100	-	-	250	30	500-3000	125	0.018	26	1	56	49.0	2.57	63.0
RSD253-800	1200	80	800	-	-	1000	12	30	500-3000	125	0.018	26	1	56	49.0	2.57	63.0
RSD153-1000	2000	70	1000	150	-	-	250	30	500-3000	125	0.018	26	1	56	49.0	2.57	63.0
RSD253-1000	2000	70	1000	-	2350	-	160	30	500-3000	125	0.018	26	1	56	49.0	2.57	63.0
Ø 63mm																	
RSD163-1000	1200	120	1000	-	-	1350	12	30	500-3000	125	0.016	33	1	63	56.8	2.77	79.0
RSD163-1250	3000	100	1250	150	-	-	250	30	500-3000	125	0.016	33	1	63	56.8	2.77	79.0
RSD163-1600	2000	100	1600	200	-	-	250	30	500-3000	125	0.016	33	1	63	56.8	2.77	79.0
RSD263-1600	2000	100	1600	-	3000	-	160	30	500-3000	125	0.016	33	1	63	56.8	2.77	79.0
Ø 76mm																	
RSD173-1250	1200	200	1250	-	-	2050	12	30	500-3000	125	0.010	45	1	76	69.0	2.77	115
RSD173-2000	3000	150	1600	200	-	-	250	30	500-3000	125	0.010	45	1	76	69.0	2.77	115
RSD273-2000	2000	150	2000	300	-	-	250	30	500-3000	125	0.010	45	1	76	69.0	2.77	115
RSD373-2000	2000	150	2000	-	4500	-	160	30	500-3000	125	0.010	45	1	76	69.0	2.77	115

* - new type (preliminary data)

FAST THYRISTOR CHIPS

English Device Code	Russian Equivalent
TF	ТБ
TFI	ТБИ

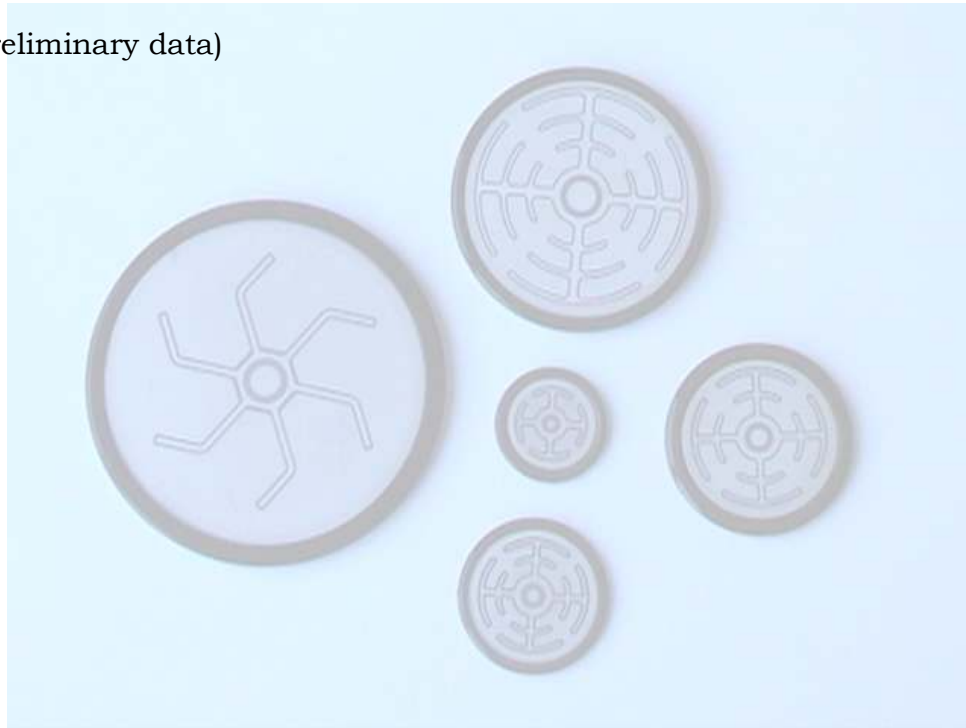
Type	V_{DRM} V_{RRM}	I_{DRM} I_{RRM}	$I_{T(AV)}$ (T_C °C)	I_{TSM}	V_{TM} / I_{TM}	$(di/dt)_{crit}$	$(dv/dt)_{crit}$	$V_{T(TO)}$	r_T	I_{GT}	V_{GT}	T_j	R_{thjc}	t_q	t_{gt}	F_m	Fig	a	b	c	d	w
	V	mA	A	kA	V/A	A/mks	V/mks	V	mΩ	mA	V	°C	°C/W	mks	mks	kN		mm	mm	mm	mm	g
Ø 16mm																						
TF242-40	400-1400	20	40/85	1.0	2.20/125	125	500-1000	1.40	5.00	200	3.0	125	0.460	25; 32; 40	2.5;3.2	1.6	2	16	11.4	1.69	4.0	2.9
TF242-63	400-1400	20	63/85	1.0	2.20/200	125	500-1000	1.40	4.00	200	3.0	125	0.390			1.6	2	16	11.4	1.69	4.0	2.9
Ø 24mm																						
TFI 361-100	600-1200	50	100/85	2.5	2.30/314	800	1000	1.40	2.40	250	2.5	125	0.160	12.5;16; 20	2.5;3.2	4.5	6	24	18.5	1.9	7.0	7.7
TFI 323-250	600-1200	50	250/80	3.0	2.60/785	800	1000	1.10	1.05	250	3.5	125	0.070	20;25		6.0	6	24	18.5	1.9	7.0	7.7
Ø 32mm																						
TFI 371-160	600-1200	50	160/85	4.0	2.60/502	1000	1000	1.40	1.20	300	2.5	125	0.090	10;12.5;16	2.5;3.2	6.5	7	32	26.5	1.9	8.6	13
TFI 371-200	600-1800	40	200/80	6.0	2.50/628	1000	1000	1.35	1.20	300	2.5	125	0.090	25; 32;40;50		6.5	7	32	26.5	1.9	8.6	13
TFI 333-320	1200-2200	60	320/85	6.0	2.70/1005	1000	1000	1.70	1.10	250	2.5	125	0.045	32;40;50;63		10	7	32	26.5	1.9	8.6	13
TFI 333- 400	600-1400	40	400/80	7.0	2.30/1250	1000	1000	1.40	0.80	300	2.5	125	0.045	20;25;32;40;50		10	7	32	26.5	1.9	8.6	13
TFI 433-400	300-900	50	400/85	7.0	2.00/1250	1000	1000	1.20	0.80	300	2.5	125	0.035	12.5;16;20		10	7	32	26.5	1.8	8.6	13
Ø 40mm																						
TFI 343-400	1200-2000	80	400/85	7.5	2.30/1250	1000	1000	1.25	0.80	300	2.5	125	0.035	40;50;63	2.5;3.2	15	8	40	33.4	2.0	9.65	22
TFI 543-400	2000-2400	80	400/80	7.5	2.40/1250	1000	1000	1.25	0.70	350	2.5	125	0.035	40;50;63		15	8	40	33.4	2.1	9.65	23
TFI 343-500	1200-2000	60	500/85	7.5	2.30/1570	1000	1000	1.25	0.70	250	2.5	125	0.035	40;50;63		15	8	40	33.4	2.0	9.65	22
TFI 343-630	600-1400	50	630/80	9.0	2.20/2000	1000	1000	1.23	0.54	300	2.5	125	0.035	25;32;40;50		15	8	40	33.4	1.9	9.65	22
TFI 443-630	300-900	80	630/80	6.3	2.00/2000	1000	1000	1.20	0.45	250	2.5	125	0.028	12.5;16;20		15	8	40	33.4	1.8	9.65	21
Ø 56mm																						
TFI 353-800*	2000-2400	120	800/80	18.0	2.60/2512	1000	1000	1.40	0.56	350	2.5	125	0.020	40;50;63	2.5;3.2	26	9	56	49.4	2.7	12.5	73
TFI 353-1000	1200-2000	150	1000/80	18.0	2.50/3140	1000	1000	1.34	0.34	250	4.0	125	0.020	40;50;63		26	9	56	49.4	2.7	12.5	72
TFI 453-1000	300-900	150	1000/85	16.0	2.00/3140	1000	1000	1.20	0.34	250	2.5	125	0.016	12.5;16;20		26	9	56	49.4	2.5	12.5	71
TFI 353-1250	600-1500	100	1250/80	21.0	2.10/3925	1000	1000	1.15	0.21	250	2.5	125	0.020	50;63		26	9	56	49.4	2.6	12.5	

* - new type (preliminary data)

FAST THYRISTOR CHIPS


Type	V _{DRM}	I _{DRM}	I _{T(AV)}	I _{TSM}	V _{TM} / I _{TM}	(di / dt) _{crit}	(dv / dt) _{crit}	V _{T(TO)}	r _T	I _{GT}	V _{GT}	T _J	R _{thjc}	t _q	t _{gt}	F _m	Fig	a	b	c	d	w
	V	mA	A	kA	V/A	A/mks	V/mks	V	mΩ	mA	V	°C	°C/W	mks	mks	kN		mm	mm	mm	mm	g
Ø 76mm																						
TFI 173-1600*	1500-2000	200	1600/85	36.0	2.50/5026	1000	1000	1.40	0.30	350	2.5	125	0.011	40;50;63		45	10	76	65.4	2.90	13.2	114
TFI 273-1600*	2000-2400	200	1600/80	32.0	2.65/5026	1000	1000	1.40	0.28	400	2.5	125	0.010	50;63	2.5;	45	10	76	65.4	2.95	13.2	115
TFI 173-2000*	1200-1600	200	2000/80	40.0	2.20/6280	1000	1000	1.25	0.15	350	2.5	125	0.011	32;40;50;63	3.2	45	10	76	65.4	2.84	13.2	114
TFI 273-2000*	1000-1400	200	2000/85	42.0	2.10/6280	1000	1000	1.23	0.10	400	2.5	125	0.011	25;32;40;50;63		45	10	76	65.4	2.95	13.2	115

* - new type (preliminary data)



FAST ASYMMETRIC THYRISTOR CHIPS

English Device Code	Russian Equivalent
TAF	ТАИ

Type	V _{DRM}	V _{RRM}	I _{DRM}	I _{RRM}	I _{T(AV)} (T _C °C)	I _{TSM}	V _{TM} / I _{TM}	(di / dt) _{crit}	(dv / dt) _{crit}	V _{T(TO)}	r _T	I _{GT}	V _{GT}	T _J	R _{thjc}	t _q	t _{gt}	F _m	Fig	a	b	c	d	w
	V	V	mA	mA	A	kA	V/A	A/mks	V/mks	V	mΩ	mA	V	°C	°C/W	mks	mks	kN		mm	mm	mm	mm	g
Ø 56mm 																								
TAF 153-1000*	2800	7	200	1000	1435(55)/ 1145(75)	16	2.2/ 3140	1000	1000	1.20	0.35	300	2.5	125	0.020	50;63	3.2;4	24	11	56	49.3	4.5	13.6	70.8

* - new type (preliminary data)

OPTOTHYRISTORS CHIPS

English Device Code	Russian Equivalent
TO	ТО

Type	V _{DRM}	I _{DRM}	I _{T(AV)} , (T _C , °C)	I _{TSM} 10ms	V _{TM} /I _{TM}	V _{T(TO)}	r _T	(di/dt) _{crit}	(du/dt) _{crit}	V _{GTM}	I _{GTM}	t _q (typ)	R _{th(j-c)}	T _{jmax}	M _d	Fig	a	b	c	d	w
	V _{RRM}	I _{RRM}	(T _C , °C)	10ms	V/A	V	mΩ	A/mks	V/mks	V	mA	mks	°C/W	°C	Nm		mm	mm	mm	mm	g
Ø 16mm																					
TO242-40	400-1200	15	40(70)	1.25	1.75/123	0.85	8.00	40	20-320	2.5	250	160	0.60	110	9-11	2	16	11.4	1.69	4.0	2.9
TO242-63	400-1200	15	63(70)	1.45	1.75/198	0.85	3.40	40	20-320	2.5	250	160	0.46	110	9-11	2	16	11.4	1.69	4.0	2.9
TO242-80	400-1200	15	80(60)	1.50	1.70/250	0.85	2.20	40	20-320	2.5	250	160	0.45	110	9-11	2	16	11.4	1.64	4.0	2.9

Optocoupler thyristors made up with LEDs **TSAL 4400** type

TRIAC CHIPS

English Device Code	Russian Equivalent
TS	TC

Type	V _{DRM}	I _{DRM}	I _{TRMS} , (T _C , °C)	I _{TSM} 20ms	V _{TM} /I _{TM}	V _{T(TO)}	r _T	(di/dt) _{crit}	dud/dt _{com}	V _{GT}	I _{GT}	Q	R _{th(j-c)}	T _{jmax}	F _m	Fig	a	b	c	d	w
	V	mA	A	kA	V/A	V	mΩ	A/mks	V/mks	V	mA		°C/W	°C	kN		mm	mm	mm	mm	mm
Ø 16mm																					
TS 242-63	300-1300	7	63(85)	0.48	1.70/89	0.90	9.00	63	2.5-50	3.0	200	1,3,4	0.46	125	1.6	2	16	11.4	1.69	4.0	2.9
TS 242-80	300-1300	7	80(85)	0.58	1.60/113	0.90	6.00	63	2.5-50	3.0	200	1,3,4	0.39	125	1.6	2	16	11.4	1.64	4.0	2.9
Ø 20mm																					
TS 151-100	300-1300	10	100(85)	1.00	1.83/140	1.50	3.50	6.3	6.3-100	3.0	300	1,2	0.220	125	3.0	2	20	14.5	1.64	5.5	4.5
TS 151-125	300-1300	10	125(85)	1.20	1.71/180	1.15	3.50	6.3	6.3-100	3.0	300	1,2	0.220	125	3.0	2	20	14.5	1.64	5.5	4.5
TS 151-160	300-1300	10	160(85)	1.40	1.51/225	1.10	2.00	6.3	6.3-100	3.0	300	1,2	0.190	125	3.0	2	20	14.5	1.64	5.5	4.5
TS 251-100	300-1400	10	100(85)	1.00	1.83/140	1.50	3.50	25	6.3-100	3.0	300	1,3,4	0.220	125	3.0	2	20	14.5	1.69	5.5	4.6
TS 251-125	300-1400	10	125(85)	1.20	1.71/180	1.15	3.50	25	6.3-100	3.0	300	1,3,4	0.220	125	3.0	2	20	14.5	1.69	5.5	4.6
TS 251-160	300-1300	10	160(85)	1.40	1.51/225	1.10	2.00	25	6.3-100	3.0	300	1,3,4	0.190	125	3.0	2	20	14.5	1.69	5.5	4.6
Ø 24mm																					
TS 161-160	300-1300	15	160(85)	1.80	1.68/225	1.20	2.60	6.3	6.3-100	4.0	300	1,2	0.140	125	4.5	2	24	18.5	1.94	5.5	7.4
TS 161-200	300-1300	15	200(85)	2.00	1.53/280	1.00	2.25	6.3	6.3-100	4.0	300	1,2	0.140	125	4.5	2	24	18.5	1.94	5.5	7.4
TS 261-160	300-1400	15	160(85)	1.80	1.67/225	1.15	2.74	25	6.3-100	4.0	300	1,3,4	0.140	125	4.5	2	24	18.5	1.99	5.5	7.5
TS 261-200	300-1400	15	200(85)	2.00	1.57/280	1.00	2.25	25	6.3-100	4.0	300	1,3,4	0.140	125	4.5	2	24	18.5	1.99	5.5	7.5
Ø 32mm																					
TS 171-250	300-1300	25	250(85)	3.00	1.62/350	1.00	2.00	6.3	6.3-100	4.0	300	1,2	0.100	125	6.5	2	32	26.8	1.94	5.5	13
TS 171-320	300-1300	25	320(85)	3.30	1.42/450	0.86	1.50	6.3	6.3-100	4.0	300	1,2	0.100	125	6.5	2	32	26.8	1.94	5.5	13
TS 271-250	300-1400	25	250(85)	3.00	1.61/350	1.00	1.98	25	6.3-100	4.0	300	1,3,4	0.100	125	6.5	2	32	26.8	1.99	5.5	13
TS 271-320	300-1400	25	320(85)	3.30	1.46/450	0.86	1.50	25	6.3-100	4.0	300	1,3,4	0.100	125	6.5	2	32	26.8	1.99	5.5	13
TS 133-500	300-1400	25	500(85)	3.00	2.50/700	1.20	1.80	25	6.3-100	3.0	300	1,2	0.040	125	10	2	32	26.8	1.99	5.5	13
TS 133-630	300-1400	25	630(85)	3.30	2.20/890	1.10	1.30	25	6.3-100	3.0	300	1,2	0.037	125	10	2	32	26.8	1.99	5.5	13
TS233-500	300-1400	25	500(85)	3.00	2.50/700	1.20	1.80	25	6.3-100	3.0	300	1,3,4	0.040	125	10	2	32	26.8	1.99	5.5	13
TS 233-630	300-1400	25	630(85)	3.30	2.20/890	1.10	1.30	25	6.3-100	3.0	300	1,3,4	0.037	125	10	2	32	26.8	1.99	5.5	13
Ø 40mm																					
TS 143-800*	300-1400	25	800(85)	4.50	1.95/1120	0.92	0.90	25	6.3-100	3.0	300	1,3,4	0.030	125	15	2	40	33.0	1.99	7.2	21
TS 143-1000*	300-1200	35	1000(85)	5.00	1.75/1400	0.90	0.61	25	6.3-100	3.0	300	1,3,4	0.028	125	15	2	40	33.0	1.99	7.2	21

* - new type (preliminary data)

