

## Russian Type Thyristors (Stud Version)

### Features

- High surge current capability
- Stud cathode and stud anode version
- Wide current range
- Inch device version available

### Typical Applications

- Battery charges
- Converters
- Power supplies
- Machine tool controls
- Welder    ■ Motor controls
- Lighting circuits

### Ordering information Table

Device Code	TC	1	61	-200-	16
	①	②	③	④	⑤
①	T=Phase control thyristor TB=Fast thyristor      TC=Triac thyristor				
②	-1=Ceramic device 2=Glass-Metal device				
③	-Device outline code				
④	-Current code= $I_{T(AV)}$				
⑤	-Voltage code=Code $\times 100 = V_{RRM}$				



### Russian Type Phase Control Thyristors (Stud Version)

Type	$V_{RRM}$	$I_{RRM}$	$I_{T(AV)}$	$I_{T(RSM)}$	$I_{T(SM)}$	$V_{TM}/I_{TM}$	$d/d_t$	$d_v/d_t$	$V_{GT}$	$I_{GT}$	$I_H$	$T_j$	$R_{jc}$	$T_q$	$M^2$	$Wt$	Outline
	V	mA	A	A	kA	V/A	A/ $\mu$ S	V/ $\mu$ S	V	mA	mA	$^{\circ}$ C	$^{\circ}$ C/W	$\mu$ s	N/m	kg	
T212-10	100-1300	3	10	15.7	0.15	1.93/31	125	50-500	3.0	40	5-50	-40 ~ +125	1.80	63	0.9-1.1	0.006	RST1
T212-16	100-1300	3	15	25.2	0.24	1.80/50	125	50-500	3.0	40	5-50		1.50	63	0.9-1.1	0.006	RST1
T222-20	100-1300	3.5	20	31.4	0.30	1.75/63	125	50-500	3.0	60	5-50		0.90	63	1.4-1.8	0.015	RST2
T222-25	100-1300	3.5	25	39.2	0.35	1.75/78	125	50-500	3.0	60	5-50		0.80	63	1.4-1.8	0.015	RST2
T232-25	1200-1600	9	25	30.2	0.33	2.20/78	125	50-500	3.5	100	5-100		0.80	160	5.0-6.2	0.023	RST3
T232-40	100-1300	5	40	62.8	0.75	1.75/125	125	50-500	4.0	100	5-100		0.62	63	5.0-6.2	0.023	RST3
T232-50	100-1300	5	50	70.5	0.80	1.75/157	125	50-500	4.0	100	5-100		0.50	63	5.0-6.2	0.023	RST3
T242-50	1200-1600	15	50	78.5	0.85	2.10/157	125	50-500	3.5	120	5-100		0.40	160	9.0-11	0.050	RST4
T242-63	100-1300	7	63	90.9	1.30	1.65/108	125	50-500	4.0	150	5-100		0.40	63	9.0-11	0.050	RST4
T242-80	100-1300	7	80	125.8	1.50	1.63/250	125	50-500	4.0	150	5-100		0.30	63	9.0-11	0.050	RST4
T151-100	300-1600	15	100	160	2.0	1.80/314	160	200-1000	3.5	200	5-200		0.30	160	10-20	0.165	RST5
T151-125	300-1600	15	125	200	2.5	1.75/392	125	200-1000	3.5	200	5-200		0.15	160	20-30	0.165	RST5
T161-160	300-1800	15	160	260	4.0	1.70/502	125	200-1000	3.5	200	5-200		0.15	160	20-30	0.250	RST6
T161-200	300-1800	15	200	315	5.0	1.80/628	160	200-1000	3.5	200	5-200		0.13	250	20-30	0.250	RST6
T161-250	300-1600	30	250	390	5.0	1.85/780	125	200-1000	3.5	200	5-200		0.10	160	20-30	0.250	RST6
T171-250	300-1800	30	250	393	6.0	1.75/785	125	200-1000	3.5	200	5-200		0.10	160	25-35	0.440	RST7
T171-320	300-1800	30	320	500	8.5	1.60/100S	320	200-1000	3.5	200	5-200	0.85	160	25-35	0.440	RST7	

### Russian Type Fast Thyristors (Stud Version)

Type	$V_{RRM}$	$I_{RRM}$	$I_{T(AV)}$	$I_{T(RSM)}$	$I_{T(SM)}$	$V_{TM}/I_{TM}$	$d/d_t$	$d_v/d_t$	$V_{GT}$	$I_{GT}$	$I_H$	$T_j$	$R_{jc}$	$T_q$	$M^2$	$Wt$	Outline
			$T_c 55^\circ C$		10ms	25°C						°C	°C/W	μs	N/m	kg	
	V	mA	A	A	kA	V/A	A/μS	V/μS	V	mA	mA	°C	°C/W	μs	N/m	kg	
TB212-10	400-1400	10	10	16	0.15	2.2/31	200	100-1000	2.0	100	5-50	-40 ~ +125	1.50	12.5, 20, 25, 32	0.9-11	0.006	RST1
TB222-16	400-1400	12	16	25	0.30	2.2/50	200	100-1000	2.0	120	5-50		0.90	12.5, 20, 25, 32	1.5-1.7	0.015	RST2
TB222-20	400-1400	12	20	31	0.35	2.2/62	200	100-1000	2.0	120	5-50		0.80	12.5, 20, 25, 32	1.5-1.7	0.015	RST2
TB232-25	400-1400	15	25	39	0.50	2.2/78	200	100-1000	2.5	170	5-100		0.82	12.5, 20, 25, 32	5.0-8.2	0.023	RST3
TB232-32	400-1400	15	32	50	0.60	2.2/99	200	100-1000	2.5	170	5-100		0.62	12.5, 20, 25, 32	5.0-6.2	0.023	RST3
TB232-40	400-1400	15	40	62	0.75	2.2/125	200	100-1000	2.5	170	5-100		0.50	12.5, 20, 25, 32	5.0-6.2	0.023	RST3
TB242-50	400-1400	20	50	78	1.00	2.2/157	200	100-1000	3.0	200	5-100		0.40	12.5, 20, 25, 32	9.0-1.1	0.050	RST4
TB242-63	400-1400	20	63	98	1.10	2.2/198	200	100-1000	3.0	200	5-100		0.30	12.5, 20, 25, 32	9.0-1.1	0.050	RST4
TB151-80	500-1600	20	80	126	1.6	2.2/250	500	500-1000	3.0	250	5-200		0.25	20, 25, 32, 40	10-20	0.165	RST5
TB151-100	500-1600	20	100	157	2.0	1.8/314	500	500-1000	2.5	250	5-200		0.25	20, 25, 32, 40	10-20	0.165	RST5
TB161-125	500-1600	25	125	198	3.5	2.2/390	500	500-1000	2.5	250	5-200		0.15	20, 25, 32, 40	20-30	0.250	RST6
TB161-160	500-1600	25	160	250	4.0	1.8/500	500	500-1000	2.5	250	5-200		0.15	20, 25, 32, 40	20-30	0.250	RST6
TB171-200	500-1600	35	200	314	6.0	2.2/630	500	500-1000	3.5	250	5-200		0.10	20, 25, 32, 40	25-35	0.440	RST7
TB171-250	500-1600	35	250	302	7.0	1.8/785	500	500-1000	3.5	250	5-200		0.10	20, 25, 32, 40	25-35	0.440	RST7
TB171-320	500-1600	35	320	390	8.0	2.2/900	500	500-1000	3.5	250	5-200		0.10	20, 25, 32, 40	25-35	0.440	RST7

### Russian Type Triac Thyristors (Stud Version)

Type	$V_{RRM}$	$I_{RRM}$	$I_{T(AV)}$	$I_{T(SM)}$	$V_{TM}/I_{TM}$	$d/d_t$	$d_v/d_t$	$V_{GT}$	$I_{GT}$	$I_H$	$T_j$	$R_{jc}$	$M^2$	$Wt$	Outline
			$T_c 55^\circ C$	10ms	25°C						°C	°C/W	N/m	kg	
	V	mA	A	kA	V/A	A/μS	V/μS	V	mA	mA	°C	°C/W	N/m	kg	
TC212-10	200-1200	3.0	10	0.07	1.85/14	5.0	2.2-25	2.0	3.0	5-50	-40 ~ +125	2.50	0.9-1.1	0.006	RST1
TC212-16	200-1200	3.0	16	0.10	1.85/22	5.0	2.5-25	2.0	3.0	5-50		1.55	0.9-1.1	0.006	RST1
TC222-20	200-1200	3.5	20	0.12	1.85/29	5.0	2.5-50	2.5	3.5	5-50		1.30	1.5-1.7	0.015	RST2
TC222-25	200-1200	3.5	25	0.20	1.80/35	5.0	2.5-50	2.5	3.5	5-50		0.90	1.5-1.7	0.015	RST2
TC232-40	200-1200	5.0	40	0.25	1.85/58	6.3	6.3-100	3.0	4.0	50-100		0.65	5.0-6.2	0.023	RST3
TC232-50	200-1200	5.0	50	0.45	1.80/70	6.3	6.3-100	3.0	4.0	50-100		0.52	5.0-6.2	0.023	RST3
TC242-63	200-1200	7.0	63	0.40	1.80/89	6.3	6.3-100	3.0	5.0	50-100		0.44	9.0-11	0.050	RST4
TC242-80	200-1200	7.0	80	0.50	1.80/113	6.3	6.3-100	3.0	5.0	50-100		0.34	9.0-11	0.050	RST4
TC151-100	200-1200	10	100	1.0	1.65/140	6.3	6.3-100	3.0	300	50-100		0.22	10-20	0.165	RST5
TC151-125	200-1200	10	125	1.2	1.74/180	6.3	6.3-100	3.0	300	50-100		0.22	10-20	0.165	RST5
TC161-160	200-1600	15	160	1.8	1.75/225	6.3	6.3-100	3.0	300	50-200		0.14	20-30	0.250	RST6
TC161-200	200-1600	15	200	2.0	1.60/290	6.3	6.3-100	3.5	300	50-200		0.14	20-30	0.250	RST6
TC171-250	200-1600	25	250	3.0	1.70/350	25	6.3-100	3.5	300	50-200		0.10	25-35	0.440	RST7
TC171-320	200-1600	25	320	3.3	1.50/450	25	6.3-100	3.5	300	50-200		0.10	25-35	0.440	RST7

### Russian Type Thyristor Stud Version Outline

