

# THYRISTORS

## HIGH VOLTAGE

### BENEFITS

- ◆ Blocking voltage 8 000..10 000 V
- ◆ Low on-state losses
- ◆ Low-temperature sintering technology
- ◆ Reduced thermal resistance
- ◆ Precision control of  $Q_{RR}$  and  $V_{TM}$



Type	$V_{DRM}, V_{RRM}$	$I_{T(AV)}$	$I_{TSM}$	$V_{T(TO)}$	$r_T$	$(di_T/dt)_{cr}$	$(dv_p/dt)_{cr}$	$R_{th(j-c)}$	$T_{jmax}$	F	Start of production
	V	$T_C = 70^\circ C$	$t_p = 10ms$	$T_{jmax}$	$T_{jmax}$	$T_{jmax}$	$T_{jmax}$				
up to 10 000 V											
T1103-2500*	8000-8500	3050	90	1.30	0.36	300	2000	0.0045	125	120	01/2018
T253-630	9500-10000	715	12.5	1.54	1.30	200	2000	0.0200	125	24	06/2017

\* preliminary date

### TYPICAL APPLICATIONS

- ◆ Soft starters
- ◆ Medium voltage drives
- ◆ Static var compensation (SVC)
- ◆ High voltage direct current (HVDC)



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# THYRISTORS

## HIGH POWER FOR PHASE CONTROL

### KEY FEATURES

- ◆ Current from 800 A up to 6900 A
- ◆ Voltage from 200 V up to 10000 V
- ◆ Press-pack design
- ◆ Low on-state and switching losses
- ◆ Regenerative amplifying gate



Type	V <sub>DRM</sub> , V <sub>RPM</sub> V	I <sub>T(AV)</sub> T <sub>C</sub> = 70°C	I <sub>TSM</sub> t <sub>p</sub> = 10ms	V <sub>T(TO)</sub> T <sub>Jmax</sub>	r <sub>T</sub> T <sub>Jmax</sub>	(di <sub>T</sub> /dt) <sub>cr</sub> T <sub>Jmax</sub>	(dv <sub>D</sub> /dt) <sub>cr</sub> T <sub>Jmax</sub>	R <sub>th(j-c)</sub> °C/W	T <sub>Jmax</sub> °C	F kN
		A	kA	V	mΩ	A/μs	V/μs			
up to 800 V										
T163-3200	200-400	3896	52	0.77	0.063	200	1000	0.0140	145	33
T173-6300	200-400	6546	70	0.77	0.032	200	1000	0.0095	150	50
up to 1800 V										
T163-1600	1400-1800	2023	35	0.95	0.150	200	1600	0.016	125	33
T173-2500	1000-1800	3290	52	0.90	0.095	200	1600	0.010	125	45
T183-4000	800-1600	4622	70	0.86	0.055	200	1600	0.008	125	70
T293-5000	800-1800	6906	100	0.86	0.043	200	1600	0.005	125	80
up to 3400 V										
T163-1250	2000-2800	1616	25	1.05	0.270	200	1600	0.016	125	33
T373-2000	1800-2800	2628	42	0.95	0.147	200	1600	0.011	125	45
T183-3200	1800-2800	3990	60	0.91	0.087	200	1600	0.078	125	70
T293-4000	1800-2800	5130	85	0.90	0.070	200	1600	0.006	125	80
T263-1000	2800-3400	1424	20	1.15	0.360	200	1600	0.016	125	33
T173-1600	2400-3400	2103	34	1.08	0.250	200	1600	0.011	125	45
T283-2500	3000-3400	3380	55	0.95	0.130	200	1600	0.008	125	70
T393-3200	2800-3400	4580	75	0.96	0.092	200	1600	0.006	125	80
up to 4800 V										
T163-1000	3400-4400	1343	18	1.14	0.428	200	2000	0.016	125	33
T373-1250	4000-4800	1937	32	1.10	0.310	200	2000	0.011	125	45
T183-2500	3600-4200	3094	50	1.00	0.160	200	2000	0.008	125	70
T393-2500	3400-4200	4079	68	1.12	0.112	200	2000	0.006	125	80
up to 6500 V										
T263-800	4400-5200	1127	15	1.20	0.600	200	2000	0.0170	125	33
T183-2000	4400-5200	2620	40	1.07	0.240	200	2000	0.0080	125	70
T293-2500	4400-5200	3258	60	1.07	0.190	200	2000	0.0065	125	80
up to 8000 V										
T353-500	6000-7200	808	10	1.35	0.900	200	2000	0.0190	125	24
T163-800	6000-7000	1072	12	1.30	0.650	200	2000	0.0170	125	33
T173-1000	6000-7000	1529	24	1.30	0.450	200	2000	0.0120	125	45
T183-1600	6000-7000	2214	40	1.25	0.340	200	2000	0.0080	125	70
T383-2000	6800-7400	2100	35	1.20	0.390	200	2000	0.0080	125	70
T193-2000	6000-7000	3068	54	1.32	0.190	200	2000	0.0065	125	80



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