



## PHASE CONTROL THYRISTORS SELECTOR GUIDE

TYPE	IT(AV) at Tc		ITSM (2) 1 pulse current code	I <sub>2t</sub> for fusing (kA2s)	Junction temperature range (°C)	VDRM /	IDRM	V <sub>0</sub>	r <sub>t</sub>	storage temp. (°C)	R <sub>thJC</sub> (3) (°C/W)	t <sub>q</sub> typical (µs)	t <sub>on</sub> typical (µs)	di/dt Min repetitive (A/µs)	dv/dt Min T <sub>j</sub> = T <sub>j</sub> max (V/µs)	V <sub>gt</sub> Max 25°C (V)	I <sub>gt</sub> Max 25°C (mA)	PACKAGE INFORMATION			contact/ flange/ height (mm)	
	max T <sub>j</sub> = T <sub>j</sub> max (V)	typical T <sub>j</sub> = T <sub>j</sub> max (mA)				T <sub>j</sub> = T <sub>j</sub> max (V)	(mΩ)											Max 25°C (V)	Max 25°C (mA)	Mounting force or torque		Style
	(A)	(°C)		(kA)	(kA2s)	(°C)	(V)	(mA)	(V)	(mΩ)	(°C)	(°C/W)	(µs)	(µs)	(A/µs)	(V/µs)	(V)	(mA)				
T510-50	50	88	50	1,2@8,3ms	6@8,3ms	- 40 to 125	600	10	0.79	12.54	40 to 150	0.28	100	4	50	300	3	150	15 Nm	2"-20 Stud (1)	T51	-
T510-80	80	75	80	1,6@8,3ms	10,7@8,3ms	- 40 to 125	600	10	0.85	4.71	40 to 150	0.28	100	4	50	300	3	150	15 Nm	2"-20 Stud (1)	T51	-
T510-40	40	96	40	1,2@8,3ms	6@8,3ms	- 40 to 125	1600	10	0.91	11.85	40 to 150	0.28	100	4	50	300	3	150	15 Nm	1/2"-20 Stud (1)	T50	-
T500-80	80	75	80	1,8@8,3ms	13,5@8,3ms	- 40 to 125	1600	10	0.99	3.57	40 to 150	0.28	100	4	50	300	3	150	15 Nm	1/2"-20 Stud (1)	T50	-
T500-60 +	60	90	60	1,1@10ms	6@10ms	- 40 to 125	1600	15	1.50	4.4	40 to 150	0.22	100	4	50	300	3	100	15 Nm	1/2"-20 Stud (1)	T50	-
T500-80 +	80	90	80	1,6@10ms	13@10ms	- 40 to 125	1400	15	1.20	2	40 to 150	0.22	100	4	50	300	3	100	15 Nm	1/2"-20 Stud (1)	T50	-
T500-99 +	100	90	99	1,8@10ms	16,2@10ms	- 40 to 125	1200	15	1.0	1.6	40 to 150	0.22	100	4	50	300	3	100	15 Nm	1/2"-20 Stud (1)	T50	-
T610-15	150	90	15	3,65@10ms	66,6@10ms	- 40 to 125	1200	25	0.80V 25°C 625	1.46	40 to 150	0.13	100	5	150	300	3	150	33 Nm	4"-16 Stud (1)	T61	-
T610-18	175	89	18	5@10ms	125@10ms	- 40 to 125	1200	25	0.55V 25°C 625	1.46	40 to 150	0.13	100	5	150	300	3	150	33 Nm	4"-16 Stud (1)	T61	-
T600-15	150	90	15	3,65@10ms	66,6@10ms	- 40 to 125	1600	25	1.07	1.46	40 to 150	0.13	100	5	150	300	3	150	33 Nm	3/4"-16 Stud (1)	T60	-
T600-18	175	89	18	5@10ms	125@10ms	- 40 to 125	1600	25	0.90	1.26	40 to 150	0.13	100	5	150	300	3	150	33 Nm	3/4"-16 Stud (1)	T60	-
C180-	150	90	-	3,2@10ms	51,2@10ms	- 40 to 125	1600	20	85V 25°C 1500	1.46	40 to 150	0.14	100	td=1µs	150	200	3	150	33 Nm	3/4"-16 Stud	T60	-
T600-15 +	150	90	15	4,1@10ms	84@10ms	- 40 to 125	1600	15	1.27	1.3	40 to 150	0.11	100	5	100	300	3	150	33 Nm	3/4"-16 Stud (1)	T60	-
T600-18 +	175	90	18	4,3@10ms	92,5@10ms	- 40 to 125	1500	15	1.17	1.2	40 to 150	0.11	100	5	100	300	3	150	33 Nm	3/4"-16 Stud (1)	T60	-
T600-20 +	200	90	20	5@10ms	125@10ms	- 40 to 125	1400	15	1.02	0.90	40 to 150	0.11	100	5	100	300	3	150	33 Nm	3/4"-16 Stud (1)	T60	-
T600-23 +	225	90	23	5,7@10ms	162,5@10ms	- 40 to 125	1200	15	0.88	0.70	40 to 150	0.11	100	5	100	300	3	150	33 Nm	3/4"-16 Stud (1)	T60	-
T620-20	200	87	20	3,65@10ms	66,6@10ms	- 40 to 125	1600	25	1.13	1.72	40 to 150	0.08	100	5	150	300	3	150	6,3 kN	Press pak	T62	20/42/13,6
T620-30	300	80	30	5@10ms	125@10ms	- 40 to 125	1600	25	0.99	1.05	40 to 150	0.08	100	5	150	300	3	150	6,3 kN	Press pak	T62	20/42/13,6
T625-30	300	80	30	3,3@10ms	54,45@10ms	- 40 to 150	1200	50	0.5V 25°C 625	1.05	40 to 150	0.08	150	3	200	300	3	150	6,3 kN	Press pak	T62	20/42/13,6
T625-40	400	60	40	4,55@10ms	103,5@10ms	- 40 to 150	1200	50	0.77	1.24	40 to 150	0.08	150	3	200	300	3	150	6,3 kN	Press pak	T62	20/42/13,6
C350-	115	89	-	1,48@10ms	10,9@10ms	- 40 to 125	1600	20	60V 25°C 500	1.46	40 to 150	0.135	200	td=1µs	500	200	3	150	6,3 kN	Press pak	T62	20/42/13,6
C380-	250	74	-	3,2@10ms	51,2@10ms	- 40 to 125	1600	20	85V 25°C 1500	1.46	40 to 150	0.095	200	td=1µs	500	200	3	150	6,3 kN	Press pak	T62	20/42/13,6
T620-20 +	200	90	20	4,1@10ms	84@10ms	- 40 to 125	1600	15	1.27	1.30	40 to 150	0.07	100	5	100	300	3	150	6,3 kN	Press pak	T62	20/42/13,6
T620-25 +	250	90	25	5@10ms	125@10ms	- 40 to 125	1400	15	1.03	0.90	40 to 150	0.07	100	5	100	300	3	150	6,3 kN	Press pak	T62	20/42/13,6
T620-30 +	300	90	30	5,7@10ms	162,5@10ms	- 40 to 125	1200	15	0.88	0.70	40 to 150	0.07	100	5	100	300	3	150	6,3 kN	Press pak	T62	20/42/13,6
T700-30	300	65	30	7,7@10ms	296@10ms	- 40 to 125	2400	30	0.88	0.92	40 to 150	0.10	150	7	150	300	3	150	39 Nm	3/4"-16 Stud (1)	T70	-
T700-35	350	80	35	9,1@10ms	414@10ms	- 40 to 125	2400	30	0.83	0.61	40 to 150	0.10	150	7	150	300	3	150	39 Nm	3/4"-16 Stud (1)	T70	-
T700-28 +	275	75	28	9,1@10ms	245@10ms	- 40 to 125	2400	25	1.10	1.04	40 to 150	0.09	150	5	100	300	3	200	39 Nm	3/4"-16 Stud (1)	T70	-
T700-30 +	300	75	30	8@10ms	320@10ms	- 40 to 125	2200	25	1.02	0.80	40 to 150	0.09	150	5	100	300	3	200	39 Nm	3/4"-16 Stud (1)	T70	-
T700-35 +	350	75	35	9,2@10ms	423@10ms	- 40 to 125	1600	25	0.85	0.60	40 to 150	0.09	150	5	100	300	3	200	39 Nm	3/4"-16 Stud (1)	T70	-
T720-45	450	65	45	7,65@10ms	292@10ms	- 40 to 125	2400	30	0.93	0.90	40 to 150	0.06	150	7	150	300	3	150	11 kN	Press pak	T72	35/60/26,4
T720-55	550	65	55	9,125@10ms	416@10ms	- 40 to 125	2400	30	0.99	0.47	40 to 150	0.06	150	7	150	300	3	150	11 kN	Press pak	T72	35/60/26,4
C391-	490	64	-	7@10ms	245@10ms	- 40 to 125	2400	45	65V 25°C 3000	1.04	40 to 150	0.06	200	td=1µs	75	200	5	150	11 kN	Press pak	T72	35/60/26,4
C390-	450	73	-	7,6@10ms	289@10ms	- 40 to 125	2400	45	40V 25°C 3000	1.04	40 to 150	0.06	125	td=0,4µs	500	200	5	150	11 kN	Press pak	T72	35/60/26,4
T720-40 +	400	75	40	7@10ms	245@10ms	- 40 to 125	2400	25	1.10	1.04	40 to 150	0.05	150	5	100	300	3	200	11 kN	Press pak	T72	35/60/26,4
T720-45 +	450	75	45	8@10ms	320@10ms	- 40 to 125	2200	25	1.02	0.80	40 to 150	0.05	150	5	100	300	3	200	11 kN	Press pak	T72	35/60/26,4
T720-53 +	525	75	53	9,2@10ms	423@10ms	- 40 to 125	1600	25	0.85	0.60	40 to 150	0.05	150	5	100	300	3	200	11 kN	Press pak	T72	35/60/26,4
C430- +	600	53	-	7,3@10ms	266@10ms	- 40 to 125	1600	20	40V 25°C 3000	1.04	40 to 150	0.04	125	td=0,7µs	150	200	5	125	11 kN	Press pak	T7H	25/42/14,8
C431-1 +	680	60	-	7,3@10ms	266@10ms	- 40 to 125	1600	45	62V 25°C 3000	1.04	40 to 150	0.04	200	td=0,7µs	100	200	5	150	11 kN	Press pak	T7H	25/42/14,8
C431-2 +	450	65	-	5,95@10ms	177@10ms	- 40 to 125	1600	60	60V 25°C 3000	1.04	40 to 150	0.04	75	-	100	200	5	150	11 kN	Press pak	T7H	25/42/14,8
I7H8-65	650	65	65	8,2@10ms	336@10ms	- 40 to 125	1600	30	1.03	0.628	40 to 150	0.04	150	7	150	300	3	150	11 kN	Press pak	T7H	25/42/14,8
I7H8-75	750	62	75	9,6@10ms	461@10ms	- 40 to 125	1600	30	0.97	0.48	40 to 150	0.04	150	7	150	300	3	150	11 kN	Press pak	T7H	25/42/14,8
T750-65	650	70	65	8,2@10ms	336@10ms	- 40 to 125	2400	30	1.00	0.70	40 to 150	0.035	150	7	150	300	3	150	11 kN	Press pak	T7S	30/49/14,4
T750-75	750	73	75	9,6@10ms	461@10ms	- 40 to 125	2400	30	0.97	0.48	40 to 150	0.035	150	7	150	300	3	150	11 kN	Press pak	T7S	30/49/14,4
T750-55 +	550	68	55	7,5@8,3ms	234@10ms	- 40 to 125	2400	30	30V 25°C 3000	1.04	40 to 150	0.035	150	7	150	300	3	150	11 kN	Press pak	T7S	30/49/14,4
T8KC-32	325	70	32	4,24@10ms Vr=0	90@10ms	- 40 to 125	6500	100	1.17	3.26	- 50 to 150	0.042	450	td=2µs	100	1000	3	200	13,3 to 15,5 kN	Press pak	T82	35/60/27
T8K7-35	350	76	35	5,06@10ms	128@10ms	- 40 to 125	4500	75	1.56	2.14	40 to 150	0.04	250	td=2µs	150	500	3	200	13,3 to 15,5 kN	Press pak	T82	35/60/26,4
T820-75	750	70	75	10,95@10ms	6																	



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TYPE	IT(AV) at Tc			ITSM (2) 1 pulse	I <sub>2t</sub> for fusing (kA2s)	Junction temperature range (°C)	VDRM / VRRM max T <sub>j</sub> = T <sub>j</sub> max (V)	IDRM typical T <sub>j</sub> = T <sub>j</sub> max (mA)	V <sub>0</sub> T <sub>j</sub> = T <sub>j</sub> max (V)	r <sub>t</sub> T <sub>j</sub> = T <sub>j</sub> max (mΩ)	storage temp. (°C)	RthJC (3) (°C/W)	t <sub>q</sub> T <sub>j</sub> = T <sub>j</sub> max (μs)	t <sub>on</sub> typical (μs)	di/dt Min repetitive (A/μs)	dV/dt Min T <sub>j</sub> = T <sub>j</sub> max (V/μs)	V <sub>gt</sub> Max 25°C (V)	I <sub>gt</sub> Max 25°C (mA)	PACKAGE INFORMATION			contact/ flange/ height (mm)
	(A)	(°C)	code																(kA)	(°C)	(V)	
C441--	750	65	-	10 @ 10ms	500 @ 10ms	- 40 to 125	2400	35	0.87	0.537	40 to 150	0.04	125	td=0.7μs	75	200	5	125	13.3 to 15.5 kN	Press pak	T82	35/60/26.4
C440--	900	67	-	12 @ 10ms	720 @ 10ms	- 40 to 125	1600	35	0.72	0.38	40 to 150	0.04	125	td=0.7μs	150	200	5	150	13.3 to 15.5 kN	Press pak	T82	35/60/26.4
T9KC-06	600	72	06	7.3 @ 10ms Vr=0	267 @ 10ms	- 40 to 125	6500	150	1.32	1.58	50 to 150	0.023	600	td=2μs	100	1000	3	200	24.5 to 26.7 kN	Press pak	T9K	47/75/27.7
T9K7-08	800	79	08	8 @ 10ms	320 @ 10ms	- 40 to 125	4500	150	1.213	0.6	40 to 150	0.023	500	td=3μs	75	800	4.5	300	22.2 to 26.6 kN	Press pak (5)	T9G	47/75/26.7
C702-	1000	74	-	20.5 @ 10ms Vr=0	2100 @ 10ms	- 40 to 125	3200	150	0.944	0.425	50 to 150	0.023	400	td=2.5μs	100	400	4.5	200	24.5 to 26.7 kN	Press pak (5)	T9G	47/75/26.7
T9G0-10	1000	82	10	15.5 @ 10ms	1200 @ 10ms	- 40 to 125	2400	75	0.90	0.49	40 to 150	0.023	250	3	150	300	3	200	22.7 to 25 kN	Press pak (5)	T9G	47/75/26.7
T9G0-12	1200	85	12	24.65 @ 10ms	3038 @ 10ms	- 40 to 125	1800	75	0.606	0.268	40 to 150	0.023	350	3	150	300	3	200	22.7 to 25 kN	Press pak (5)	T9G	47/75/26.7
T9G0-25	2500	85	25	26.7 @ 10ms Vr=0	3564 @ 10ms Vr=0	- 40 to 150	1200	150	0.848	0.159	40 to 150	0.015	500	td=1.5μs	200	400	3	200	22.2 to 26.7 kN	Press pak	T9G	47/75/26.7
T9G0-24	2400	75	24	25.5 @ 10ms Vr=0	3240 @ 10ms Vr=0	- 20 to 140	800	150	0.722	0.088	50 to 150	0.023	400	td=1.5μs	100	300	3	200	24.5 to 26.7 kN	Press pak	T9G	47/75/26.7
T9G0-17	1700	70	17	32.4 @ 10ms Vr=0	5120 @ 10ms Vr=0	- 40 to 125	600	75	0.794	0.174	40 to 150	0.023	150	td=1μs	400	400	3	200	24.5 to 26.7 kN	Press pak (5)	T9G	47/75/26.7
C451-	1500	64	-	20.8 @ 10ms	2163 @ 10ms	- 40 to 125	2400	45	0.88	0.227	40 to 150	0.025	150	td=0.7μs	75	400	5	200	24.5 to 26.7 kN	Press pak (5)	T9G	47/75/26.7
C450-	1640	65	-	26 @ 10ms	3380 @ 10ms	- 40 to 125	1600	45	0.677	0.193	40 to 150	0.025	150	td=0.7μs	400	400	5	200	24.5 to 26.7 kN	Press pak (5)	T9G	47/75/26.7
T9G0-10 +	1000	75	10	17 @ 10ms	1445 @ 10ms	- 40 to 125	2400	50	1.04	0.39	40 to 150	0.018	250	7	150	300	3	200	24.5 kN	Press pak (5)	T9G	47/75/26.7
T9G0-11 +	1100	75	11	25 @ 10ms	3125 @ 10ms	- 40 to 125	2000	50	0.98	0.28	40 to 150	0.018	250	7	150	300	3	200	24.5 kN	Press pak (5)	T9G	47/75/26.7
T9G0-12 +	1200	75	12	27 @ 10ms	3645 @ 10ms	- 40 to 125	1600	50	0.94	0.18	40 to 150	0.018	250	7	150	300	3	200	24.5 kN	Press pak (5)	T9G	47/75/26.7
T9S7-14	1400	67	14	19.6 @ 10ms Vr=0	1920 @ 10ms Vr=0	- 20 to 125	3200	150	0.923	0.449	50 to 150	0.0185	400	td=1.5μs	300	1000	3	200	24.5 to 26.7 kN	Press pak	T9S	47/74/16.5
T9S0-18	1800	70	18	19.42 @ 10ms Vr=0	1886 @ 10ms Vr=0	- 20 to 125	2200	150	0.752	0.265	50 to 150	0.015	400	td=1.5μs	1000	3	200	24.5 to 26.7 kN	Press pak	T9S	47/74/16.5	
T9S0-20	2000	72	20	25.45 @ 10ms Vr=0	3240 @ 10ms Vr=0	- 20 to 125	1800	150	0.755	0.226	50 to 150	0.015	400	td=1.5μs	100	1000	3	200	24.5 to 26.7 kN	Press pak	T9S	47/74/16.5
T9S0-34	3450	70	34	33.47 @ 10ms Vr=0	5600 @ 10ms Vr=0	- 20 to 140	800	200	0.722	0.088	50 to 150	0.015	400	td=1.5μs	100	600	3	200	24.5 to 26.7 kN	Press pak	T9S	47/74/16.5
TAKC-11	1100	70	11	11.3 @ 10ms Vr=0	640 @ 10ms Vr=0	- 40 to 125	6500	200	1.06	0.837	40 to 150	0.015	650	td=3μs	100	1000	3	200	35.6 to 44.5 kN	Press pak	TAK	64/102/32.6
TAK7-12	1200	82	12	36.5 @ 10ms	6660 @ 10ms	- 40 to 125	4400	250	1.262	0.397	40 to 150	0.015	500	td=4μs	150	1000	5	300	41 to 50 kN	Press pak	TAK	64/102/32.6
TAK7-18	1800	70	18	22.16 @ 10ms Vr=0	2454 @ 10ms Vr=0	- 40 to 125	3200	250	0.881	0.374	50 to 150	0.015	500	td=2.5μs	100	800	4.5	200	40 to 48.9 kN	Press pak	TAK	64/102/34.6
TAZ0-16	1600	80	16	26.9 @ 10ms	3618 @ 10ms	- 40 to 125	2200	100	0.89	0.215	40 to 150	0.015	250	4	150	300	4.5	200	41 to 50 kN	Press pak	TAZ	64/102/32.6
TAZ0-18	1800	85	18	36.5 @ 10ms	6660 @ 10ms	- 40 to 125	1600	100	0.72	0.167	40 to 150	0.015	250	4	150	300	4.5	200	41 to 50 kN	Press pak	TAZ	64/102/32.6
TAS7-16	1650	70	16	20.74 @ 10ms Vr=0	2150 @ 10ms Vr=0	- 40 to 125	4400	250	1.39	0.401	40 to 150	0.011	550	td=2.5μs	100	800	4.5	200	40 to 48.9 kN	Press pak	TAS	64/102/27
TAS7-21	2100	70	21	28.28 @ 10ms Vr=0	4000 @ 10ms Vr=0	- 40 to 125	3200	250	0.881	0.374	50 to 150	0.011	550	td=2.5μs	100	800	4.5	200	40 to 48.9 kN	Press pak	TAS	64/102/27
TAS0-25	2550	70	25	35.83 @ 10ms Vr=0	6420 @ 10ms Vr=0	- 40 to 125	2400	250	0.900	0.177	50 to 150	0.011	400	td=3μs	100	500	4.5	200	40 to 48.9 kN	Press pak	TAS	64/102/27
TAS0-26	2635	70	26	35.83 @ 10ms Vr=0	6420 @ 10ms Vr=0	- 40 to 125	1800	150	0.735	0.163	50 to 150	0.011	550	td=2.5μs	100	800	4.5	200	40 to 48.9 kN	Press pak	TAS	64/102/27
TBKC-12	1250	70	12	20.7 @ 10ms Vr=0	2150 @ 10ms Vr=0	- 40 to 125	6500	400	1.153	0.744	50 to 150	0.013	800	td=2.5μs	100	1000	5	300	40 to 44.5 kN	Press pak	TB2	73/113/38
TBSD-21	2115	70	21	31.7 @ 10ms Vr=0	5020 @ 10ms Vr=0	- 40 to 125	4500	250	1.13	0.275	40 to 150	0.01	600	td=3.5μs	100	1000	4	250	40 to 44.5 kN	Press pak	TB2	73/113/26
TBKD-19	1890	70	19	31.7 @ 10ms Vr=0	5020 @ 10ms Vr=0	- 40 to 125	4500	250	1.13	0.275	40 to 150	0.012	600	td=3.5μs	100	1000	4	250	40 to 44.5 kN	Press pak	TB2	73/113/36
TBS4-25	2500	70	25	32 @ 10ms Vr=0	5140 @ 10ms Vr=0	- 40 to 125	3600	200	1.026	0.023	50 to 150	0.0085	600	td=3.5μs	100	1000	4	250	40 to 44.5 kN	Press pak	TBS	73/113/26
TBS7-25	2500	80	25	41.5 @ 10ms	8610 @ 10ms	- 40 to 125	2600	150	0.95	0.123	40 to 150	0.01	250	td=3μs	100	500	4.2	250	40 to 44.5 kN	Press pak	TBS	73/113/26
TBS7-32	3200	76	32	40.5 @ 10ms	8200 @ 10ms	- 40 to 125	1600	150	0.776	0.089	40 to 150	0.01	350	td=3μs	100	300	5	200	40 to 44.5 kN	Press pak	TBS	73/113/26
TBK5-32	3200	74	32	58.45 @ 10ms Vr=0	17100 @ 10ms Vr=0	- 40 to 125	1600	150	0.826	0.107	40 to 150	0.01	400	td=3.5μs	100	1000	3	200	40 to 44.5 kN	Press pak	TBK	73/113/38
TBK7-30	3000	70	30	44.2 @ 10ms	9770 @ 10ms	- 40 to 125	600	150	0.69	0.088	40 to 150	0.012	400	td=8μs	100	300	4	250	26.6 to 44.4 kN	Press pak	TB2	73/113/36
TBS7-35	3500	72	35	44.2 @ 10ms	9770 @ 10ms	- 40 to 125	600	150	0.69	0.088	40 to 150	0.01	400	td=8μs	100	300	4	250	26.6 to 44.4 kN	Press pak	TBS	73/113/26
C784-	1650	70	-	24 @ 10ms	2880 @ 10ms	- 40 to 125	4500	200-300	1.03	0.357	40 to 150	0.012	400	td=3μs	100	1000	4.5	300	40 to 44.5 kN	Press pak (5)	TB2	73/113/36
C783-	1800	70	-	27 @ 10ms	3645 @ 10ms	- 40 to 125	3700	150	1.18	0.278	40 to 150	0.012	200	td=3μs	100	500	4.5	250	40 to 44.5 kN	Press pak (5)	TB2	73/113/36
C782-	2300	70	-	32 @ 10ms	5120 @ 10ms	- 40 to 125	2500	150	0.868	0.17	40 to 150	0.012	250	td=3μs	100	500	4.5	250	40 to 44.5 kN	Press pak (5)	TB2	73/113/36
C781-	2500	72	-	41.5 @ 10ms	8610 @ 10ms	- 40 to 125	2100	150	0.95	0.123	40 to 150	0.012	250	td=3μs	100	500	4.2	250	40 to 44.5 kN	Press pak (5)	TB2	73/113/36
TB20-16 +	1600	70	16	22.5 @ 10ms	2530 @ 10ms	- 40 to 125	4500	180	1.38	0.33	40 to 150	0.012	300	-	100	500	4.5	200	40 to 44.5 kN	Press pak (5)	TB2	73/113/36
TB20-18 +	1800	70	18	24 @ 10ms	2880 @ 10ms	- 40 to 125	4500	180	1.16	0.343	40 to 150	0.012	300	-	100	500	4.5	200	40 to 44.5 kN	Press pak (5)	TB2	73/113/36
TB20-20 +	2000	70	20	27 @ 10ms	3645 @ 10ms	- 40 to 125	3800	180	1.18	0.27	40 to 150	0.012	300	-	100	500	4.5	200	40 to 44.5 kN	Press pak (5)	TB2	73/113/3



## PHASE CONTROL THYRISTORS SELECTOR GUIDE

TYPE	IT(AV) at Tc		ITSM (2) 1 pulse current code	I2t for fusing (kA2s)	Junction temperature range (°C)	VDRM /	IDRM	V0	rt	storage temp. (°C)	RthJC	tq	ton	di/dt Min repetitive (A/μs)	dv/dt Min (V/μs)	Vgt Max (V)	Igt Max (mA)	PACKAGE INFORMATION			contact/ flange/ height (mm)	
	max Tj = Tj max (V)	typical Tj = Tj max (mA)				(°C/W)	typical Tj = Tj max (μs)				typical Tj = Tj max (μs)							Max 25°C (mA)	Mounting force or torque	Style		Outline
TDK4-30	3070	70	30	52.8@10ms Vr=0	13900@10ms Vr=0	-40 to 125	4500	300	0.991	0.196	40 to 150	0.007	600	td=3μs	150	2000	4	300	80 to 110 kN	Press pak	TD2	100/144/38
TDS4-33	3325	70	33	52.8@10ms Vr=0	13900@10ms Vr=0	-40 to 125	4500	300	0.991	0.196	40 to 150	0.007	600	td=3μs	150	2000	4	300	80 to 110 kN	Press pak	TDS	100/144/27
TDS4-36	3585	55	36	52.8@10ms Vr=0	13900@10ms Vr=0	-40 to 125	4400	300	0.991	0.196	50 to 150	0.006	600	td=3μs	150	2000	4	300	80 to 110 kN	Press pak	TDS	100/144/27
TDS4-34	3475	70	34	67.2@10ms Vr=0	22600@10ms Vr=0	-40 to 125	3600	300	0.914	0.145	50 to 150	0.007	600	td=3μs	100	800	5	300	71.2 to 89 kN	Press pak	TDS	100/144/27
TDK4-34	3430	70	34	65.6@10ms Vr=0	21500@10ms Vr=0	-40 to 125	3600	300	0.914	0.145	40 to 150	0.007	600	td=3μs	100	1000	4	300	80 to 110 kN	Press pak	TD2	100/144/38
TDK4-38	3800	70	38	70@10ms Vr=0	24500@10ms Vr=0	-40 to 125	2400	250	0.954	0.099	50 to 150	0.007	500	td=3μs	100	800	5	300	71.2 to 89 kN	Press pak	TD2	100/144/36
TDS4-44	4400	70	44	82.97@10ms Vr=0	34420@10ms Vr=0	-40 to 125	2400	250	0.884	0.099	50 to 150	0.006	600	td=3μs	100	800	5	300	71.2 to 89 kN	Press pak	TDS	100/144/27
TDS5-50	5000	70	50	84.85@10ms Vr=0	36000@10ms Vr=0	-40 to 125	2000	200	0.848	0.066	50 to 150	0.0065	500	td=4μs	100	500	4	200	71.2 to 89 kN	Press pak	TDS	100/144/27

### ORDERING INFORMATION

Select the complete part number you desire from the following table

Type	Voltage (V)		Current (A) IF(AV) code	Turn off tq (μs)	code	Igt max		Leads code
	VRRM	Code				mA	code	
T510	200	02	select the current code in IFAV column	No tq specified	0	100	5	See our standard codes on drawings  Other leads are available on request
T500	400	04				120	F	
T610	"	"				150	4	
T600	1000	10				180	G	
T620	"	"				200	3	
T700	2500	25				250	H	
T720	"	"				300	2	
T7H0	4500	45				350	L	
T7S0	"	"				500	1	
T8K7	6500	65						
T820								
T9K7								
T9G0								
TAK7								
TA20								
TB20								
TBK7								
TBS7								
TD20								
TDS4								
TDK4								
TDS5								

Type	Voltage (V)	
	VRRM	Code
C180	600	M
C350	800	N
C380	1000	P
C390	1200	PB
C391	1400	PD
C430	1600	PM
C431 1	1800	PN
C431 2	2000	L
C440	2200	LB
C441	2400	LD
C450	2600	LM
C451	2800	LN
C702	3000	CP
C781	3200	CB
C782	3400	CD
C783	3600	CM
C784	3800	CN
	4000	DP
	4200	DB
	4400	DD
	4500	DE

### Examples :

#### T500 12 80 05 AW

T50 : T50 case thread 1/2" (stud)  
0 : Phase control thyristor  
12 : VRRM/VDRM = 1200 V  
80 : IF(AV) = 80 A  
05 : no tq specified; IGT max=100mA  
AW : lead length 163 mm

#### TA20 18 18 03 KL

TA2 : TA2 case press pak  
0 : Phase control thyristor  
18 : VRRM/VDRM = 1800 V  
18 : IF(AV) = 1800 A  
03 : no tq specified; IGT max=200mA  
KL : lead length 300 mm with eyelets

#### C784DD

C784 : TB2 case press pak, Phase control thyristor  
DD : VRRM/VDRM=4400V

### Notes

- (1) = Available with metric thread on request
  - (2) = 100% reapplied voltage
  - (3) = DC Value
  - (4) = glass metal seal
  - (5) = Available in flat package: T9A / TAA / TBT
- + Old version thyristor  
° preliminary data sheet