

Fast Switching Thyristors 快速晶闸管

Feature

- ◆ Distributed gate design
- ◆ Fast turn-on and high di/dt
- ◆ Low switching losses
- ◆ Designed for inductive heating and inverter chopper applications
- ◆ 分布式门极设计
- ◆ 具有关断时间短高的di/dt能力
- ◆ 低的开关损耗
- ◆ 应用于感应加热、逆变器、斩波器等行业领域



Capsule

Part No.	I_{TSM}	V_{SM}	I_{SM}	P_I	V_{TR}	r_T	R_g	R_{thC}	R_{thM}	F	Outline
	$T_{c=55^\circ C}$	V_{SM}	50Hz	50Hz	T_{SM}	T_{SM}	$\mu\Omega$	$^{\circ}C/W$	$^{\circ}C/W$	KN	
	A	V	A	A's 10 ³	V	mC					
Up to 1800V											
KK200/12-18	200	1200-1800	4000	80	1.60	1.50	16-25	0.085	0.02	6	T6
KK300/12-16	300	1200-1800	4300	92	1.50	1.40	16-25	0.045	0.01	9	T7
KK400/12-16	400	1200-1800	8500	361	1.40	1.20	16-25	0.040	0.01	16	T9
Up to 1800V											
KK500/12-18	500	1200-1800	6500	211	1.45	0.60	16-25	0.040	0.01	16	T9
KK600/12-18	600	1200-1800	10000	500	1.30	0.50	16-25	0.040	0.01	20	T9
KK800/12-18	800	1200-1800	12000	720	1.35	0.40	16-25	0.030	0.008	20	T10
KK1000/12-18	1000	1200-1800	14000	980	1.55	0.35	16-25	0.020	0.006	25	T11
KK1200/12-18	1200	1200-1800	16000	1280	1.50	0.30	16-35	0.018	0.006	32	T12
KK1500/12-18	1500	1200-1800	18000	1620	1.45	0.26	16-35	0.018	0.006	32	T12
KK1800/12-18	1800	1200-1800	19000	1805	1.42	0.25	16-35	0.013	0.005	45	T13
KK2000/12-18	2000	1200-1800	23000	2645	1.45	0.20	25-40	0.012	0.005	50	T14
KK2500/12-18	2500	1200-1800	31000	4805	1.30	0.15	25-40	0.011	0.002	55	T15
Up to 2200V											
KK1200/20-22	1200	2000-2200	15000	1125	1.45	0.40	30-50	0.020	0.006	25	T11
KK1500/20-22	1500	2000-2200	16000	1280	1.50	0.32	30-50	0.018	0.006	32	T12
KK1800/20-22	1800	2000-2200	18000	1620	1.50	0.30	30-50	0.013	0.003	45	T13
KK2000/20-22	2000	2000-2200	20000	2000	1.50	0.25	30-50	0.012	0.003	50	T14
KK2500/20-22	2500	2000-2200	30000	4500	1.30	0.20	30-50	0.011	0.002	55	T15
Up to 3000V											
KK1000/25-28	1000	2500-2800	10000	500	1.55	0.50	30-40	0.020	0.006	25	T11
KK1200/25-28	1200	2500-2800	12000	720	1.50	0.45	30-40	0.018	0.006	32	T12

Part No.	I_{TSM}	V_{SM}	I_{SM}	P_I	V_{TR}	r_T	R_g	R_{thC}	R_{thM}	F	Outline
	$T_{c=55^\circ C}$	V_{SM}	50Hz	50Hz	T_{SM}	T_{SM}	$\mu\Omega$	$^{\circ}C/W$	$^{\circ}C/W$	KN	
	A	V	A	A's 10 ³	V	mC					
KK1500/25-28	1500	2500-2800	15000	1125	1.50	0.32	30-40	0.018	0.006	32	T12
KK2000/25-28	2000	2500-2800	20000	2000	1.48	0.25	30-40	0.012	0.005	50	T14
KK2500/25-28	2500	2500-2800	25000	3125	1.50	0.18	35-60	0.011	0.002	55	T15
KK3000/25-30	3000	2500-3000	35000	6125	1.32	0.15	70-85	0.007	0.002	70	T16
KK4000/25-30	4000	2500-3000	45000	10125	1.30	0.13	100-115	0.006	0.001	90	T17
Up to 3500V											
KK3200/35-45	3200	2500-3000	41000	8405	1.65	0.22	150-200	0.006	0.001	90	T17

If need 35mm please note outline H code H: 35mm

Asymmetrical

Part No.	I_{TSM}	V_{SM}	I_{SM}	P_I	V_{TR}	r_T	R_g	R_{thC}	R_{thM}	F	Outline
	$T_{c=55^\circ C}$	V_{SM}	50Hz	50Hz	T_{SM}	T_{SM}	$\mu\Omega$	$^{\circ}C/W$	$^{\circ}C/W$	KN	
	A	V	A	A's 10 ³	V	mC					
KK1500/25-28	1500	2500-2800	15000	1125	1.50	0.32	30-40	0.018	0.006	32	T12

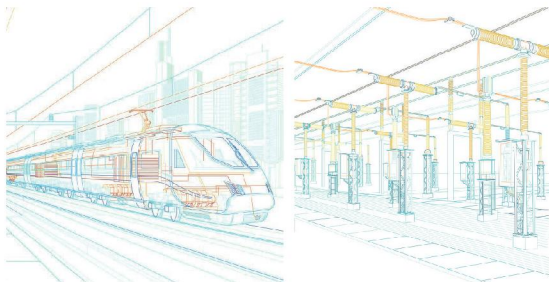


Phase Control Thyristors 普通晶闸管

◆ KP Ordinary Series

Feature

- ◆ Design for high power industrial and power transmission applications
- ◆ Optimized for low on-state voltage
- ◆ Match On and VT available for series or parallel connections
- ◆ 应用于大功率的各类工业生产和电机传动领域
- ◆ 很低的通态压降
- ◆ 通过选择适合的On和VT进行器件匹配,可串联或并联使用



Capsule

Part No.	I_{TSM}	V_{SM}	I_{SM}	P_I	V_{TR}	r_T	R_g	R_{thC}	R_{thM}	F	Outline
	$T_{c=70^\circ C}$	V_{SM}	50Hz	50Hz	T_{SM}	T_{SM}	$\mu\Omega$	$^{\circ}C/W$	$^{\circ}C/W$	KN	
	A	V	A	A's 10 ³	V	mC					
Up to 1200V											
KP400/06-12	400	600-1200	6300	196	0.90	0.660	0.085	0.020	6	T6	
KP600/06-12	600	600-1200	9200	423	0.83	0.600	0.045	0.010	9	T7	
KP800/06-12	800	600-1200	11600	805	0.85	0.500	0.040	0.010	12	T9	
KP1000/06-12	1000	600-1200	12500	791	0.83	0.350	0.035	0.008	16	T9	
KP1800/06-12	1800	600-1200	27000	3645	0.85	0.190	0.020	0.006	25	T11	
KP2000/06-12	2000	600-1200	31000	4805	0.83	0.150	0.018	0.006	32	T12	
KP2600/06-12	2600	600-1200	46000	10125	0.85	0.130	0.013	0.006	45	T13	
KP3800/06-12	3800	600-1200	62000	19220	0.80	0.050	0.011	0.003	55	T15	
Up to 2000V											
KP300/12-20	300	1200-1800	5000	125	0.95	1.200	0.085	0.020	6	T6	
KP600/12-20	600	1200-1800	8200	328	1.00	0.600	0.045	0.010	9	T7	
KP800/12-20	800	1200-1800	14000	980	0.95	0.360	0.035	0.008	16	T9	
KP1000/12-20	1000	1200-1800	17000	1445	0.93	0.300	0.030	0.008	20	T10	
KP1500/12-20	1500	1200-1800	24600	3026	0.92	0.230	0.020	0.006	25	T11	
KP1800/12-18	1800	1200-1800	27500	3781	0.90	0.200	0.018	0.006	32	T12	
KP2500/12-18	2500	1200-1800	46000	10125	0.85	0.130	0.013	0.006	45	T13	
KP3000/12-18	3000	1200-1800	54000	14580	0.90	0.070	0.011	0.002	55	T15	
KP4000/12-18	4000	1200-1800	60000	18000	0.88	0.070	0.009	0.002	70	T16	
KP5000/12-18	5000	1200-1800	80000	32000	0.88	0.065	0.007	0.001	90	T17	
Up to 3500V											
KP500/20-25	500	2000-2500	7500	281	0.95	1.100	0.045	0.010	9	T7	
KP700/20-25	700	2000-2500	10000	500	1.00	0.720	0.035	0.008	16	T9	
KP900/20-25	900	2000-2500	12800	819	0.95	0.600	0.030	0.008	20	T10	
KP1300/20-25	1300	2000-2500	21000	2205	0.90	0.300	0.020	0.006	25	T11	
KP1600/20-25	1600	2000-2500	25000	3125	0.95	0.260	0.018	0.006	32	T12	
KP2000/20-25	2000	2000-2500	33000	5445	0.97	0.200	0.013	0.005	45	T13	
KP2500/20-25	2500	2000-2500	41600	8653	0.90	0.150	0.011	0.002	55	T15	
KP3200/20-25	3200	2000-2500	46000	11520	0.87	0.130	0.009	0.002	70	T16	
KP4000/20-25	4000	2000-2500	74500	27751	1.00	0.100	0.007	0.001	90	T17	
Up to 3500V											
KP400/25-35	400	2500-3500	6100	198	1.10	1.750	0.045	0.010	9	T7	
KP600/30-35	600	3000-3500	8300	344	1.05	1.000	0.035	0.008	16	T9	
KP700/25-30	700	2500-3000	10000	500	1.00	0.700	0.035	0.008	16	T9	
KP800/25-35	800	2500-3500	11600	661	1.00	0.750	0.030	0.008	20	T10	
KP1200/25-30	1200	2500-3000	22000	2420	0.95	0.400	0.020	0.006	25	T11	
KP1000/30-35	1000	3000-3500	17000	1445	1.10	0.600	0.020	0.006	25	T11	
KP1200/25-35	1200	3000-3500	19000	1805	1.10	0.600	0.018	0.006	32	T12	
KP1800/25-30	1800	2500-3000	29000	4205	1.05	0.300	0.013	0.005	45	T13	
KP1800/30-35	1800	3000-3500	28000	3620	1.05	0.400	0.013	0.005	45	T13	
KP2200/25-35	2200	2500-3500	31000	4805	1.03	0.250	0.011	0.002	55	T15	
KP3000/25-35	3000	2500-3500	40000	8000	0.85	0.180	0.009	0.002	70	T16	
KP3500/25-35	3500	2500-3500	72000	28920	1.00	0.150	0.007	0.001	90	T17	

◆ KP High Voltage Series

Feature

- ◆ Design for high power industrial and power transmission applications
- ◆ Optimized for low on-state voltage
- ◆ Match Qrr and VT available for series or parallel connections
6500V thyristor special used for MSS High Voltage
- ◆ Soft Start Module and Static Var Compensator (SVC)
- ◆ 应用于大功率的各类工业生产和电器传动领域
- ◆ 很低的通态压降
- ◆ 通过选择合适的Qrr和VT进行器件匹配, 可串联或并联使用
- ◆ 6500V 晶闸管特别应用于高压软启动及无功补偿及无功补偿设备



Capsule

Part No.	$I_{T(AV)}$	V_{DRM}	I_{TSM}	$I^2 t$	V_{TO}	r_T	R_{thJC}	R_{thCH}	F	Outline
	$T_c=70^\circ C$	V_{RRM}	50Hz T_{VJM}	50Hz T_{VJM}	T_{VJM}	T_{VJM}				
	A	V	A	$A^2 S 10^3$	V	mΩ				
Up to 4500 V										
KP500/35-45	4500	3500-4500	7000	245	1.20	1.600	0.035	0.008	16	T9
KP900/35-45	900	3500-4500	14500	1051	1.20	0.900	0.020	0.006	25	T11
KP1000/35-45	1000	3500-4500	15000	1125	1.18	0.800	0.018	0.005	32	T12
KP1500/35-45	1500	3500-4500	25000	3125	1.15	0.500	0.013	0.005	45	T13
KP1800/35-45	1800	3500-4500	25000	3125	1.15	0.350	0.012	0.004	50	T14
KP2000/35-45	2000	3500-4500	27000	3645	1.05	0.330	0.011	0.002	55	T15
KP2500/35-45	2500	3500-4500	32500	5281	1.25	0.230	0.009	0.002	70	T16
KP3000/35-45	3000	3500-4500	45000	10125	1.10	0.200	0.007	0.002	90	T17
Up to 5200 V										
KP400/45-52	400	4500-5200	4200-4600	5400	1.30	1.900	0.045	0.008	16	T9
KP800/45-52	800	4500-5500	4200-4600	12000	1.15	1.000	0.022	0.006	25	T11
KP1200/45-52	1200	4500-5200	4200-4600	19000	1.15	0.600	0.015	0.005	32	T13
KP1500/45-52	1500	4500-5200	4200-4600	25000	1.20	0.550	0.011	0.002	55	T15
KP2200/45-52	2200	4500-5200	4200-4600	45000	1.10	0.350	0.009	0.002	70	T16
KP2800/45-52	2800	4500-5200	4200-4600	55000	1.05	0.250	0.007	0.002	90	T17
Up to 6500 V										
KP300/55-65	350	5500-6500	4500-5600	4500	1.20	2.600	0.045	0.008	16	T9
KP700/55-65	750	5500-6500	4500-5600	11000	1.20	1.100	0.022	0.005	25	T11
KP1000/55-65	1100	5500-6500	4500-5600	14300	1.18	0.800	0.015	0.004	32	T13
KP1200/55-65	1200	5500-6500	4500-5600	22000	1.15	0.700	0.011	0.002	55	T15
KP1800/55-65	1800	5500-6500	4500-5600	31000	1.25	0.500	0.009	0.002	70	T16
KP2500/55-65	2500	5500-6500	4500-5600	43000	1.20	0.330	0.007	0.002	90	T17

$T_{VJM}=125^\circ C$ If need 35mm please note outline H code H : 35mm