

# Phase Control Thyristors



KP5-20A



KP20-300A



KP20-5300A

### Feature

- $I_T(AV)=5-5000A$
- $V_{DRM}/V_{RRM}=100-5000V$
- Hermetic metal case with ceramic insulator
- Hermetic glass-metal seal
- Metal case with ceramic insulator
- Conform to national standard GB/T8950.2-1999
- In accordance with IEC international electrical committee standard

### Typical application

- DC motor controls
- Controlled DC power supplies
- AC switch and thermal control
- Synchronous motor excitation

### Characteristic Stud-model

Type No	$I_T(AV)$ A	$I_{TSM}$ A	$V_{TM}$ V	$V_{DRM}$ V	$I_{DRM}$ mA	$I_{GT}$ mA	$V_{GT}$ V	$I_H$ mA	$Dv/dt$ V/ $\mu$ s	$di/dt$ A/ $\mu$ s	$T_j$ °C	$R_{jc}$ °C/w	Weight g	Outline No
KP5A	5	8	$\leq 2.2$	100	$\leq 8.0$	5~45	$\leq 2.5$	5~45	$\geq 50$	--	-40 ~ +125	$\leq 3.0$	12	B1
KP10A	10	16						5~50				$\leq 2.5$	27	B2
KP20A	20	32						5~150				$\leq 1.0$	29	B3D1
KP30A	30	48	$\leq 2.4$	~ 2000	$\leq 10$	5~150	2.5	5~50	$\geq 100$	100	$\leq 0.5$	112	D2	
KP50A	50	80						5~150			$\leq 0.14$	142	D3	
KP100A	100	160	$\leq 2.6$	~ 2000	$\leq 30$	5~200	5~200	$\geq 200$	100	100	$\leq 0.11$	207	D4	
KP200A	200	320									$\leq 0.11$	327	D5	
KP300A	300	480									$\leq 0.08$	472	D6	
KP500A	500	800									$\leq 0.04$	927	D7	



KA Disc Model



KTa Disc Model



KT Disc Model



KTT Disc Model

### Disc-types

Type No	$I_T(AV)$ A	$I_{TSM}$ A	$V_{TM}$ V	$V_{DRM}$ V	$I_{DRM}$ mA	$I_{GT}$ mA	$V_{GT}$ V	$I_H$ mA	$Dv/dt$ V/ $\mu$ s	$di/dt$ A/ $\mu$ s	$T_j$ °C	$R_{jc}$ °C/w	Weight g	Outline No
KP100A	100	160	$\leq 2.6$	100 ~ 5000	$\leq 15$	15~200	$\leq 2.5$	15~200	$\geq 200$	$\geq 100$	-40 ~ +125	$\leq 0.11$	75	F1
KP200A	200	320										$\leq 0.11$	90/205	F2E2
KP300A	300	480										$\leq 0.08$	105/290	F3E3
KP500A	500	800			$\leq 0.04$	205/375	F4E4							
KP800A	800	1280				$\leq 0.026$	230/430	F5E5						
KP1000A	1000	1600			$\leq 0.020$	300/540	F6E6							
KP1500A	1500	2400			$\leq 0.020$	655	E7							
KP2000A	2000	3200			$\leq 0.012$	760	E8							
KP2500A	2500	4000			$\leq 0.010$	1215	E9							
KP3000A	3000	4800	$\leq 45$	15~400	$\leq 3.5$	15~400	$\leq 0.010$	1265	E9E10E11					
KP3500A	3500	5600						$\leq 0.010$	1295	E9E10E11				
KP4000A	4000	6400						$\leq 0.1010$	1325	E9E10E11				
KP5000A	5000	8000						$\leq 0.1010$	1385	E9E10E11				