



» High Frequency Thyristor

Features:

- All diffused structure
- Distributed gate design
- Excellent dynamic performance
- Excellent high frequency performance, 2.5KHz-10kHz
- Fast switching performance
- Low switching loss

Applications:

- Inverter
- Chopper
- Induction heating
- All kinds of forced converters

Description:

1. I_{GT} , V_{GT} and I_H are the test values at 25 °C , unless otherwise stated, all the other parameters are the test values under T_{jm} ;
2. $I^2t = I_{FSM}^2 \times tw/2$, $tw =$ Sinusoidal half wave current base width. At 50Hz, $I^2t = 0.005 I_{FSM}^2 (A^2S)$;
3. At 60Hz:
 $I_{FSM}(8.3ms) = I_{FSM}(10ms) \times 1.066$, $T_j = T_j$; $I^2t(8.3ms) = I^2t(10ms) \times 0.943$, $T_j = T_{jm}$.

Parameter:

TYPE	$I_{T(AV)}$	T_c	V_{DRM}/V_{RRM}	I_{TSM} @ $T_{vj10\mu s}$ &10ms	I^2t	V_{TM} @ I_T & $T_J=25^{\circ}C$		t_q	T_{jm}	R_{jc}	R_{cs}	F	m	CODE
	A	$^{\circ}C$	V	A	A^2s	V	A	μs	$^{\circ}C$	$^{\circ}C/W$	$^{\circ}C/W$	KN	Kg	
Voltage up to 1200V														
KA200--**	200	55	800~1200	2800	3.9×10^4	3.20	640	15	125	0.060	0.010	10	0.08	T2A
KA500--**	500	55	800~1200	7500	2.8×10^5	3.20	1570	15	125	0.039	0.008	15	0.26	T5C
KA1000--**	1000	55	800~1200	15000	1.1×10^6	3.20	3000	15	125	0.022	0.005	25	0.46	T8C