

Features:

- Two anti-paralleled thyristors on one Si-wafer
- Hermetic metal cases with ceramic insulators
- Capsule packages for double sided cooling

Typical Applications

- High power industrial and power transmission
- DC and AC motor control
- AC controllers

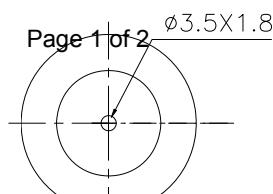
$I_{T(RMS)}$ **520A**
 V_{DRM}/V_{RRM} **500~1800V**
 I_{TSM} **5.0kA**
 I^2t **125 A²s*10³**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{T(RMS)}$	RMS current	50Hz sine wave Double side cooled, $T_c=55^\circ C$	125			730	A
						520	
V_{DRM}	Repetitive peak reverse voltage	V_{DRM} tp=10ms $V_{DSM} = V_{DRM} + 100V$	125	500		1800	V
I_{DRM}	Repetitive peak current	$V_{DM}=V_{DRM}$	125			30	mA
I_{TSM}	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	125			5.0	kA
I^2t	I^2T for fusing coordination					125	A ² s*10 ³
V_{TO}	Threshold voltage		125			0.85	V
r_T	On-state slop resistance					1.85	mΩ
V_{TM}	Peak on-state voltage	$I_{TM}=450A, F=7.0kN$	125			1.78	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=0.67V_{DRM}$	125			50	V/μs
di/dt	Critical rate of rise of on-state current	$V_{DM}=67\%V_{DRM}$ to 800A, Gate pulse $t_r \leq 0.5\mu s$ $I_{GM}=1.5A$ Repetitive	125			50	A/μs
I_{GT}	Gate trigger current	$V_A=12V, I_A=1A$	25	20		200	mA
V_{GT}	Gate trigger voltage			0.8		2.5	V
I_H	Holding current			20		200	mA
$R_{th(j-c)}$	Thermal resistance Junction to case	double side cooled Clamping force 7.0kN				0.045	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.010	
F_m	Mounting force			5.3		10	kN
T_{stg}	Stored temperature			-40		140	°C
W_t	Weight					80	g
Outline		KT25aT					

Outline:

<http://www.tech-sem.com>



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