

Dual Thyristor Modules

TYPE:MTC500A-1600V

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- Thyristor with amplifying gate

Typical Applications

- DC motor control
- AC motor soft starters
- Temperature control
- Professional light dimming

Maximum Ratings

Symbol	Condition	Ratings	Unit
I _{T(AV)}	Single phase, half wave, 85° conduction	500	A
I _{TRMS}	Single phase, half wave, 35° conduction	720	A
I _{TSM}	T _j =125°C	15	kA
I ² t	T _j =125°C	1100	kA ² S
V _{DRM} /V _{RRM}		1600/1600	V
di/dt	non-repetitive	250	A/us
V _{iso}	A.C.1minute	3000	V
T _j		-40 ~ +125	°C
T _{stg}		-40 ~ +125	°C
W		-	g

Electrical Characteristics

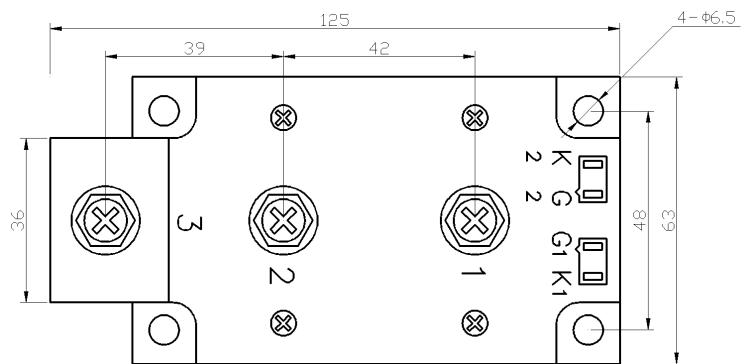
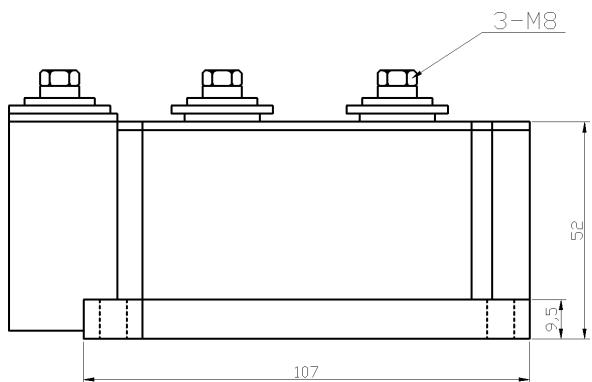
Symbol	Condition	Ratings	Unit
I _{DRM} / I _{RRM}	At V _{DRM} , Single phase, half wave, T _j =125°C	205	mA
V _{TM}	On-State Current 1700A, T _j =25°C	1.44	V
V _{T(TO)}	T _j =125°C	0.78	V
t _{gd}	T _j =25°C	1	us
t _q	T _j =125°C	200	us
I _{GT} /V _{GT}	T _j =25°C	200 / 3	mA/V
V _{GD}	V _D =67%V _{DRM} , T _j =125°C	0.25	V
DV/DT	V _D =67%V _{DRM}	1000	V/us
I _H	T _j =25°C	150	mA
I _L	T _j =25°C	300	mA
R _{th(j-c)}	Per Module	0.034	K/W

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Outline Drawing



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