

Dual Thyristor Modules
TYPE: MTC800A-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
- Temperature control
- Professional light dimming

Maximum Ratings

Symbol	Condition	Ratings	Unit
$I_{T(AV)}$	Single phase, half wave, 180° conduction ; $T_C=85^\circ\text{C}$	800	A
I_{TRMS}	Single phase, half wave, 180° conduction	1372	A
I_{TSM}	$T_j=125^\circ\text{C}$	18.9	kA
I^2t	$T_j=125^\circ\text{C}$	1.79×10^3	kA^2S
V_{DRM}/V_{RRM}	$T_j=125^\circ\text{C}$	1600/1600	V
di/dt	non-repetitive	400	A/us
V_{iso}	A.C.1minute	3000	V
T_j		-40 ~ + 125	$^\circ\text{C}$
T_{stg}		-40 ~ + 125	$^\circ\text{C}$
W	About	2.1	Kg

Electrical Characteristics

Symbol	Condition	Ratings	Unit
I_{DRM}/I_{RRM}	At V_{DRM} , Single phase, half wave, $T_j=125^\circ\text{C}$	100	mA
V_{TM}	On-State Current 2400A, $T_j=125^\circ\text{C}$	1.52	V
$V_{T(TO)}$	$T_j=125^\circ\text{C}$	0.93	V
R_{K1G1}		-	Ω
R_{K2G2}		-	Ω
t_{gd}	$T_j=25^\circ\text{C}; V_D=0.4V_{DRM}; I_{TM}=I_{TAV}$	2.5	us
t_q	$dv_D/dt=50\text{V/us}; T_j=125^\circ\text{C}; I_{TM}=I_{TAV}$	320	us
I_{GT}/V_{GT}	$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	250 / 2.5	mA/V
V_{GD}	$V_D=67\%V_{DRM}$	0.25	V
DV/DT	$V_D=67\%V_{DRM}$	1000	V/us
I_H	$T_j=25^\circ\text{C}$	300	mA
I_L	$T_j=25^\circ\text{C}$	-	mA
$R_{th(j-c)}$	Per Module	0.025	K/kW

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Outline Drawing

