YZPST

YANGZHOU POSITIONING TECH. CO., LTD

Dual Thyristor Modules

TYPE: **YZPST-MCC312-16Io1**

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，sin 180° conduction ;T_C=85°C	320	A
I_{TRMS}	Single phase，half wave，sin 180° conduction	520-	A
I_{TSM}	T_j= $T_{j\ MAX}$	8.16	kA
I^2t	T_j= $T_{j\ MAX}$	332	kA^2S
V_{DRM}/V_{RRM}	T_j= $T_{j\ MAX}$	1600	V
di/dt	non-repetitive	100	A/us
V_{iso}	A.C.1minute/1S	3000/3600	V
T_j		-40 ~ + 140	°C
T_{stg}		-40 ~ + 125	°C
W	About	680	g

Electrical Characteristics

Symbol	Condition	Ratings	Unit
I_{DRM} /I_{RRM}	AtV_{DRM}，Single phase，half wave，T_j= $T_{j\ MAX}$	40	mA
V_{TM}	On-State Current 600A，T_j=25°C	1.32	V
$V_{T(TO)}$	T_j= $T_{j\ MAX}$	0.80	V
r_T	T_j= $T_{j\ MAX}$	0.68	mΩ
R_{K1G1}		7-8	Ω
R_{K2G2}		7-8	Ω
t_{gd}	T_j=25°C;V_D=0.4V_{DRM} ; I_{TM}=I_{TAV}	2	us
t_q	dv_D/dt=50V/us; T_j=125°C; I_{TM}=I_{TAV}	200	us
I_{GT}/V_{GT}	T_j=25°C，I_T=1A，V_D=6V	150 / 2.0	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°C	150	mA
I_L	T_j=25°C	200	mA
$R_{th(j-c)}$	Thermal resistance Junction to case; per module	0.12	K/kW
$R_{th(c-h)}$	Thermal resistance case to heatsink; per module	0.04	K/kW

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Outline Drawing