

Dual Thyristor Modules

TYPE: YZPST-SKKT162/08E

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- Thyristor with amplifying gate
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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 $T_c=77^\circ\text{C}$	162	A
I_{TRMS}	Single phase, half wave, 85° conduction	250	A
I_{TSM}	$T_c=125^\circ\text{C}$	4800	A
I^2t	$T_c=125^\circ\text{C}$	115	kA^2S
V_{DRM}/V_{RRM}	$T_c=125^\circ\text{C}$	800/800	V
di/dt	non-repetitive	200	A/us
V_{iso}	A.C.1m/1S	4000/4500	V
T_j		-40 ~ +125	$^\circ\text{C}$
T_{stg}		-40 ~ +125	$^\circ\text{C}$
W		-	g

Electrical Characteristics

Symbol	Condition	Ratings	Unit
I_{DRM}/I_{RRM}	At V_{DRM} , Single phase, half wave, $T_c=125^\circ\text{C}$	60	mA
V_{TM}	On-State Current 500A, $T_j=25^\circ\text{C}$	1.85	V
$V_{T(TO)}$	$T_j=125^\circ\text{C}$	1.35	V
t_{gd}	$T_j=25^\circ\text{C}$	1	us
t_q	$T_j=125^\circ\text{C}$		us
I_{GT}/V_{GT}	$T_j=25^\circ\text{C}$	150 / 2	mA/V
V_{GD}	$V_D=67\%V_{DRM}$, $T_j=125^\circ\text{C}$	0.25	V
DV/DT	$V_D=67\%V_{DRM}$	1000	V/us
I_H	$T_j=25^\circ\text{C}$	400	mA
I_L	$T_j=25^\circ\text{C}$	1000	mA
$R_{th(j-c)}$	Per Module	0.08	K/W

Outline Drawing

