

Thyristor Modules

TYPE: YZPST-PWA150SA-4

This product is a Thyristor module suitable for low voltage, 3 phase recifier applications.

- IT(AV) 150A (each device)
- High Surge Current 3000 A (60Hz)
- Easy Construction
- Non-isolated. Mounting base as common Anode terminal

Applications

- Welding power Supply
- Various DC power Supply

Maximum Ratings

Symbol	Condition	Ratings	Unit
$I_{T(AV)}$	Single phase, half wave, 180° conduction, $T_C=116^\circ\text{C}$	150	A
I_{TRMS}	Single phase, half wave, 180° conduction, $T_C=116^\circ\text{C}$	230	A
I_{TSM}	$T_j=150^\circ\text{C}$	3000	A
I^2t	$T_j=150^\circ\text{C}$	38	kA^2S
V_{DRM}/V_{RRM}		400/400	V
di/dt	non-repetitive	100	A/us
V_{iso}	A.C. 1minute	3000	V
T_j		-30 ~ + 150	$^\circ\text{C}$
T_{stg}		-30 ~ + 125	$^\circ\text{C}$
W	approximate	250	g

Electrical Characteristics

Symbol	Condition	Ratings	Unit
I_{DRM} / I_{RRM}	At V_{DRM} , Single phase, half wave, $T_j=150^\circ\text{C}$	40	mA
V_{TM}	On-State Current 450A, $T_j=150^\circ\text{C}$	1.2	V
$V_{T(TO)}$	$T_j=150^\circ\text{C}$	-	V
t_{gd}	$T_j=25^\circ\text{C}$	-	us
t_q	$T_j=150^\circ\text{C}$	-	us
I_{GT}/V_{GT}	$T_j=25^\circ\text{C}$	100 / 3.0	mA/V
V_{GD}	$V_D=67\%V_{DRM}$, $T_j=150^\circ\text{C}$	0.25	V
DV/DT	$V_D=67\%V_{DRM}$	200	V/us
I_H	$T_j=25^\circ\text{C}$	-	mA
I_L	$T_j=25^\circ\text{C}$	-	mA
$R_{th(j-c)}$	Per Module	0.15	$^\circ\text{C}/\text{W}$

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Outline Drawing

