

Thyristor/ Diode Modules
Page 1 of 2
Type: YZPST-SKKH57/16E
Maximum Ratings

Symbol	Condition	Ratings	Unit
I_T (AV)	Single phase, half wave, 180° conduction, $T_c: 80^\circ\text{C}$	55	A
I_{TSM}	$T_j=25^\circ\text{C}/T_j=125^\circ\text{C}$	1500/1250	A
I^2_t	$T_j=25^\circ\text{C}/T_j=125^\circ\text{C}$	11000/8000	A^2S
$(di/dt)_{cr}$	$T_j=125^\circ\text{C}$	100	A/us
Viso	A.C.1min	2500	V
T_j		-40~+125	$^\circ\text{C}$
Tstg		-40~+125	$^\circ\text{C}$
W		100	g

Electrical Charaterisistics

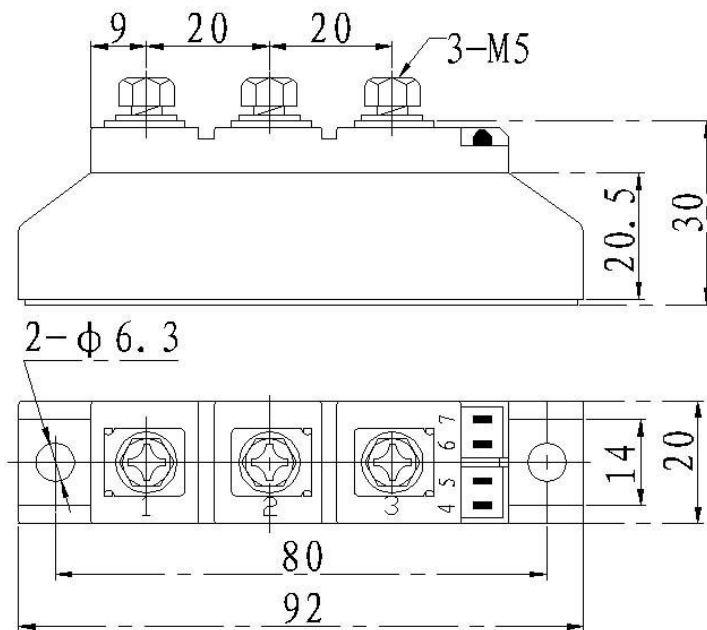
Symbol	Condition	Ratings	Unit
V_{DRM}/V_{RRM}		1600	V
I_{DRM}	At V_{DRM} , Single phase, half wave, $T_j=125^\circ\text{C}$	15	mA
I_{RRM}	At V_{DRM} , Single phase, half wave, $T_j=125^\circ\text{C}$	15	mA
V_{TM}	On-State Current 200A, $T_j=25^\circ\text{C}$	1.65	V
I_{GT}/V_{GT}	$T_j=25^\circ\text{C}$, $I_T=1\text{A}$, $V_D=6\text{V}$	150/2.5	mA/V
V_{GD}	$T_j=125^\circ\text{C}$, $V_D=1/2 V_{DRM}$	0.25	V
DV/DT	$T_j=125^\circ\text{C}$, $V_D=2/3 V_{DRM}$,	500	V/us
I_H	$T_j=25^\circ\text{C}$	200 (max)	mA
I_L	$T_j=25^\circ\text{C}$	400 (max)	mA
$R_{th(j-c)}$	Per module, sin180	0.30	$^\circ\text{C}/\text{W}$

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Page 2 of 2

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Case Outline And Dimensions



Features

- ★ Standard voltage
- ★ Electrically isolated base plate
- ★ High surge capability
- ★ Hard soldered joints for high reliability

Typical Applications

- ★ DC motor control (e.g. for machine tools)
- ★ AC motor soft starters
- ★ Temperature control (e.g. for ovens, chemical processes)
- ★ Professional light dimming (studios, theaters)