

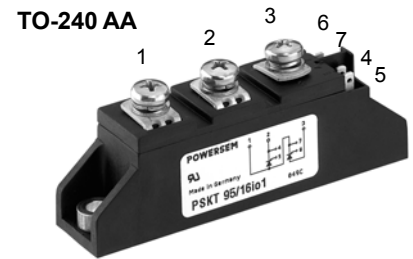
## Thyristor Modules Thyristor/Diode Modules

**PSKT 95**  
**PSKH 95**

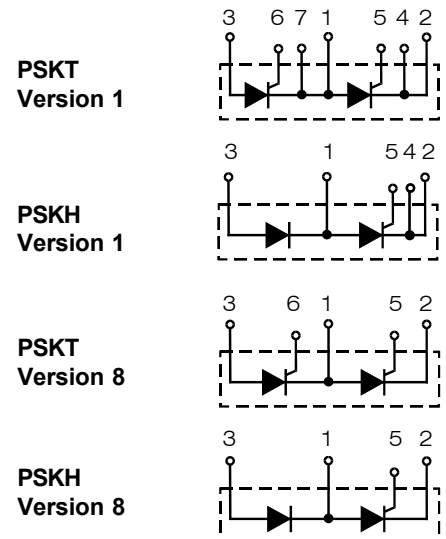
$I_{TRMS} = 2x 180 A$   
 $I_{TAVM} = 2x 116 A$   
 $V_{RRM} = 800-1800 V$

Preliminary Data Sheet

$V_{RSM}$ $V_{DSM}$ V	$V_{RRM}$ $V_{DRM}$ V	Type			
		Version 1		Version 8	
900	800	PSKT 95/08io1	--	PSKT 95/08io8	PSKH 95/08io8
1300	1200	PSKT 95/12io1	PSKH 95-12io1	PSKT 95/12io8	PSKH 95/12io8
1500	1400	PSKT 95/14io1	--	PSKT 95/14io8	PSKH 95/14io8
1700	1600	PSKT 95/16io1	PSKH 95-16io1	PSKT 95/16io8	PSKH 95/16io8
1900	1800	PSKT 95/18io1	--	PSKT 95/18io8	PSKH 95/18io8



Symbol	Test Conditions	Maximum Ratings	
$I_{TRMS}^1$ , $I_{FRMS}$ $I_{TAVM}^2$ , $I_{FAVM}$	$T_{VJ} = T_{VJM}$ $T_C = 85^\circ C$ ; 180° sine	180	A
$I_{TSM}^3$ , $I_{FSM}$	$T_{VJ} = 45^\circ C$ ; $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	2250 2400
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	2000 2150
$\int i^2 dt$	$T_{VJ} = 45^\circ C$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	25 300 23 900
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	20 000 19 100
$(di/dt)_{cr}$	$T_{VJ} = T_{VJM}$ f = 50 Hz, $t_p = 200 \mu s$ $V_D = 2/3 V_{DRM}$ $I_G = 0.45 A$ $di_G/dt = 0.45 A/\mu s$	repetitive, $I_T = 250 A$  non repetitive, $I_T = I_{TAVM}$	150  500
$(dv/dt)_{cr}$	$T_{VJ} = T_{VJM}$ ; $R_{GK} = \infty$ ; method 1 (linear voltage rise)	$V_{DR} = 2/3 V_{DRM}$	1000
$P_{GM}$	$T_{VJ} = T_{VJM}$ $I_T = I_{TAVM}$	$t_p = 30 \mu s$ $t_p = 300 \mu s$	10 5
$P_{GAV}$			0.5
$V_{RGM}$			10
$T_{VJ}$			-40...+125
$T_{VJM}$			125
$T_{stg}$			-40...+125
$V_{ISOL}$	50/60 Hz, RMS $I_{ISOL} \leq 1 mA$	t = 1 min t = 1 s	3000 3600
$M_d$	Mounting torque (M5) Terminal connection torque (M5)		2.5-4.0/22-35 2.5-4.0/22-35
Weight	Typical including screws		90



### Features

- International standard package, JEDEC TO-240 AA
- Direct copper bonded  $Al_2O_3$  -ceramic base plate
- Planar passivated chips
- Isolation voltage 3600 V~
- UL registered, E 148688
- Gate-cathode twin pins for version 1

### Applications

- DC motor control
- Softstart AC motor controller
- Light, heat and temperature control

### Advantages

- Space and weight savings
- Simple mounting with two screws
- Improved temperature and power cycling capability
- Reduced protection circuits

Data according to IEC 60747 and refer to a single thyristor/diode unless otherwise stated.