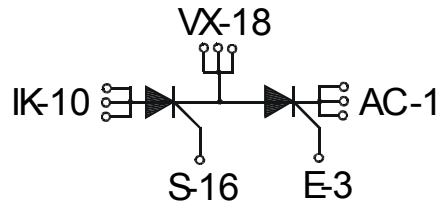


## Thyristor Modules PSKT 96 Thyristor/Thyristor Modules

$I_{TRMS} = 2 \times 180 \text{ A}$   
 $I_{TAVM} = 2 \times 105 \text{ A}$   
 $V_{RRM} = 600-1800 \text{ V}$

Preliminary Data Sheet

$V_{RSM}$ $V_{DSM}$ (V)	$V_{RRM}$ $V_{DRM}$ (V)	Type
700	600	PSKT 96/06
900	800	PSKT 96/08
1300	1200	PSKT 96/12
1500	1400	PSKT 96/14
1700	1600	PSKT 96/16
1900	1800	PSKT 96/18



Symbol	Test Conditions	Maximum Ratings
$I_{TRMS}$		180 A
$I_{TAVM}$	$T_C = 85 \text{ }^\circ\text{C}$ , 180° sine	105 A
$I_{TSM}$	$T_{VJ} = 45 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	2250 A
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	2400 A
	$T_{VJ} = 125 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	2000 A
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	2150 A
$\int i^2 dt$	$T_{VJ} = 45 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	25300 A <sup>2</sup> s
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	23900 A <sup>2</sup> s
	$T_{VJ} = 125 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	20000 A <sup>2</sup> s
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	19100 A <sup>2</sup> s
$(di/dt)_{cr}$	$T_{VJ} = 125 \text{ }^\circ\text{C}$ repetitive, $I_T = 250 \text{ A}$ f=50Hz, $t_p=200\mu\text{s}$	150 A/ $\mu\text{s}$
	$V_D=2/3V_{DRM}$ $I_G=0.45 \text{ A}$ non repetitive, $I_T = I_{TAVM}$ $di_G/dt=0.45\text{A}/\mu\text{s}$	500 A/ $\mu\text{s}$
$(dv/dt)_{cr}$	$T_{VJ} = 125 \text{ }^\circ\text{C}$ $V_D=2/3V_{DRM}$ $R_{GK} = \infty$ , method 1 (linear voltage rise)	1000 V/ $\mu\text{s}$
$P_{GM}$	$T_{VJ} = 125 \text{ }^\circ\text{C}$ $t_p=30\mu\text{s}$	≤ 10 W
	$I_T=I_{TAVM}$ $t_p=300\mu\text{s}$	≤ 5 W
$P_{GAVM}$		0.5 W
$V_{RGM}$		10 V
$T_{VJ}$		-40... + 125 °C
$T_{VJM}$		125 °C
$T_{stg}$		-40... + 125 °C
$V_{ISOL}$	50/60 Hz, RMS t = 1 min	3000 V~
	$I_{ISOL} \leq 1 \text{ mA}$ t = 1 s	3600 V~
$M_d$	Mounting torque (M4)	1.5 - 2.0 Nm
		14 - 18 lb.in.
<b>Weight</b>	typ.	24 g

### Features

- 
- Isolation voltage 3600 V~
- Planar glass passivated chips
- Low forward voltage drop
- Leads suitable for PC board soldering
- UL registered, E 148688

### Applications

- DC motor control
- Light and temperature control
- Softstart AC motor controller
- Solid state switches

### Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling capability
- High power density
- Small and light weight

Data according to IEC 60747 refer to a single thyristor unless otherwise stated



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