

Thyristor Modules

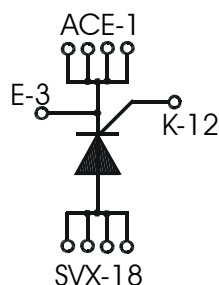
ECO-PAC 2

$$I_{TRMS} = 200 \text{ A}$$

$$I_{TAVM} = 130 \text{ A}$$

$$V_{RRM} = 1200/1600 \text{ V}$$

V_{RSM}	V_{RRM}	
V_{DSM}	V_{DRM}	Typ
V	V	
1300	1200	VCO 132-12io7
1700	1600	VCO 132-16io7



Symbol	Conditions	Maximum Ratings	
I_{TRMS}		200	A
I_{TAVM}	$T_C = 85^\circ\text{C}; T_{VJ} = 130^\circ\text{C}; 180^\circ \text{ sine}$	130	A
I_{TSM}	$T_{VJ} = 45^\circ\text{C}; t = 10 \text{ ms}$ (50 Hz)	3600	A
	$V_R = 0; t = 8.3 \text{ ms}$ (60 Hz)	3850	A
	$T_{VJ} = 125^\circ\text{C}; t = 10 \text{ ms}$ (50 Hz)	3200	A
	$V_R = 0; t = 8.3 \text{ ms}$ (60 Hz)	3420	A
I^2t	$T_{VJ} = 45^\circ\text{C}; t = 10 \text{ ms}$ (50 Hz)	64 800	A ² s
	$V_R = 0; t = 8.3 \text{ ms}$ (60 Hz)	62 300	A ² s
	$T_{VJ} = 125^\circ\text{C}; t = 10 \text{ ms}$ (50 Hz)	51 200	A ² s
	$V_R = 0; t = 8.3 \text{ ms}$ (60 Hz)	49 100	A ² s
$(di/dt)_{cr}$	$T_{VJ} = 125^\circ\text{C};$ repetitive, $I_T = 250 \text{ A}$ $f = 50 \text{ Hz}; t_p = 200 \mu\text{s};$	150	A/ μs
	$V_D = \frac{2}{3} V_{DRM};$ non repetitive, $I_T = I_{TAVM}$ $I_G = 0.5 \text{ A};$ $di_G/dt = 0.5 \text{ A}/\mu\text{s}$	500	A/ μs
$(dv/dt)_{cr}$	$T_{VJ} = 125^\circ\text{C}; V_D = \frac{2}{3} V_{DRM};$ $R_{GK} = \infty;$ method 1 (linear voltage rise)	1000	V/ μs
P_{GM}	$T_{VJ} = 125^\circ\text{C};$ $t_p = 30 \text{ ms}$	≤ 10	W
P_{GAVM}	$I_T = I_{T(AV)M};$ $t_p = 300 \text{ ms}$	≤ 5	W
		0.5	W
V_{RGM}		10	V
T_{VJ}		-40...+130	$^\circ\text{C}$
T_{VJM}		150	$^\circ\text{C}$
T_{stg}		-40...+125	$^\circ\text{C}$
V_{ISOL}	50/60 Hz, RMS $t = 1 \text{ min}$	3000	V~
	$I_{ISOL} \leq 1 \text{ mA}$ $t = 1 \text{ s}$	3600	V~
M_d	Mounting torque (M4)	1.5 - 2.0	Nm
		14 - 18	lb.in.
Weight	Typical including screws	24	g

Features

- Isolation voltage 3600 V~
- Planar glass passivated chips
- Low forward voltage drop
- Leads suitable for PC board soldering

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
- High power density
- Small and light weight

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

IXYS reserves the right to change limits, test conditions and dimensions.

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Dimensions in mm (1 mm = 0.0394")

